GENERAL EMBRYOLOGICAL INFORMATION SERVICE

AN INTERNATIONAL DIRECTORY
OF CURRENT RESEARCH
IN DEVELOPMENTAL BIOLOGY

VOLUME 17, part 1

EUROPE

data collected during 1977

Utrecht-Netherlands

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Utrecht-Netherlands

SUBJECT COVERAGE

Invertebrates, Vertebrates, and Man
developmental biology, including:

descriptive embryology
experimental embryology
physiological embryology

developmental genetics
developmental pathology and teratogenesis

metamorphosis
regeneration
asexual reproduction and development

Plants and Unicellular Organisms
experimental morphology
developmental physiology

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INTRODUCTION

Each volume of the General Embryological Information Service is issued in two parts: *Part 1* contains the data on research workers in Europe. The Subject Index of this part refers to the research subjects of European investigators only.
Part 2 will contain the data on investigators in all countries outside Europe, and will be organised in the same manner as part 1.

In the *research subjects* the wording used by the investigators was generally retained, but some changes have been made in order to save space. Repetitions of words and parts of entries giving too much detail were omitted; phrases such as: "research on . . ." or "studies of . . ." were cancelled; often methods were put in brackets at the end of the entry. Inevitably these condensations have caused a certain loss of information, but we feel that clarity is not seriously impaired.

For the names of higher taxa of *experimental animals* the following books have been consulted: L. A. Borradaile and F. A. Potts, The Invertebrata (4th ed., 1963), and J. Z. Young, The Life of Vertebrates (2nd ed., 1962). Lord Rothschild, A Classification of Living Animals (2nd ed., 1965) was also of much use.
Generally the highest taxon given at the end of the entry is the class, but in *Angiospermae* it is the family, in *Mammalia, Reptilia, Amphibia,* and *Insecta* the order, while in *Crustacea* and *Arachnida* both the class and the order are listed.

Some changes have been made in the *Subject Index*. In previous issues all the work on *plants* and on *unicellular organisms* was brought together under one Heading each, whereas the other Headings served *multicellular animals* only. Starting with this issue *plants* and (other) *unicells* are treated in the same way as *Metazoa*; see the list of New Headings on page 137.
The number of Subject Headings has been augmented by using some of the former cross references (see) as Headings in this issue.

Since the G.E.I.S. covers a much wider field of developmental biology than embryology alone, the title of the periodical might be considered inadequate or even confusing. We felt, however, that a well-known title should rather not be changed, and therefore added an explanatory subtitle: *An international directory of current research in developmental biology*.

For many years the number of research workers listed in the Directory of Names rose at a rate of about 10 percent every two years. From volume 15 (1973/74) onwards the increase has been no more than 3 percent. We think this decrease reflects a stagnation in the growth of research facilities in many parts of the world. Also the number of books on developmental biology published in one year is no longer increasing.

We feel this is the place to say a few words about the *Enquiry on the utility of: Central Embryological Library (CEL) and General Embryological Information Service (GEIS)*, which was held in October 1976 and proved to be a success thanks to the co-operation of many developmental biologists. Forms were sent to the 3,200 persons listed in volume 16 of the GEIS, of whom about 35 percent responded by returning completed forms, often supplemented by valuable remarks.

In general the outcome of the enquiry was very positive. Here we only mention the results on the GEIS, but those on the CEL were equally encouraging.

The analysis of the results show that exactly half of the responders use the GEIS; information in every section is consulted by more than 80 percent of the users, while 90 percent of them are reasonably to well satisfied with the information supplied.

This result encourages us to continue publishing the periodical in its present form. However, the financial situation is a cause for concern. On the one hand the production costs are still rising, while on the other hand more and more scientists in various countries apparently can no longer afford to pay the increasing subscription rates. An increasing number of subscribers are in arrears.

We hope to be able partly to alleviate the rise in production costs by the use of typescript offset and by computer-aided processing methods.

Although the interest shown by developmental biologists through the Enquiry is encouraging, a constant and sufficient number of *paying subscribers* remains the only basis on which we can continue the Service.

J. Faber
B. Z. Salomé

CHANGES OF ADDRESS IN COUNTRIES OUTSIDE EUROPE

received since the appearance of volume 16, part 2

BAKER, W. K.; Ph.D., Prof. – Dept. of Biol., Univ. of Utah, SALT LAKE CITY, UT 84112, USA
CUNHA, G. R.; Ph.D. – Dept. of Anat., Univ. of Colorado, 4200 East 9th Ave., DENVER, CO 80262, USA
DOANE, Ms. W. W.; Ph.D. – Dept. of Zool., Arizona State Univ., TEMPE, AZ 85281, USA
GUNBERG, D. L.; Ph.D., Prof. – Anat. Dept., School of Dent., Univ. of Oregon, 611 S.W. Campus Drive, PORTLAND, OR 97201, USA
IDE, C.; M.D. – Dept. of Anat., Milton S.Hershey Med. Ctr., Pennsylvania State Univ., HERSHEY, PA 17033, USA
JACOBSON, M.; Ph.D., Prof. – Dept. of Anat., Coll. of Med., Univ. of Utah, SALT LAKE CITY, UT 84132, USA
LAKSHMANAN, K. K.; Ph.D., Prof. – Dept. of Bot., Postgrad. Ctr., Univ. of Madras, COIMBATORE 641004, India
LEWIS, C. A.; Ph.D. – Zool. Dept., San Diego State Univ., SAN DIEGO, CA, USA
McKINNELL, R. G.; Ph.D., Prof. – Dept. of Genet. and Cell Biol., Univ. of Minnesota, ST. PAUL, MN 55108, USA
OKADA, M.; Ph.D. – Inst. of Biol. Sci., Univ. of Tsukuba, SAKURA, Ibaraki Pref., 300–31 Japan
PICCIANO, D. J. – Occupation. Health and Med. Res., B–1222, Dow Chemical USA, Texas Div., FREEPORT, TX 77541, USA
REESE, D. H.; Ph.D. – Natl. Cancer Inst., N.I.H., Bldg.37, Rm 3 Co2, BETHESDA, MD 20014, USA
THEIL, E. C.; Ph.D., Assoc. Prof. – Dept. of Biochem., N.Carolina State Univ., Box 5050, RALEIGH, NC 27607, USA
TOERIEN, M. J.; Ph.D., D.Sc., Prof. – Dept. of Anat., Univ. of the Orange Free State, BLOEMFONTEIN, S.Africa; deceased
WATSON, A. G. – Dept. of Anat., New York State Coll. of Vet. Med., Cornell Univ., ITHACA, NY 14853, USA

DIRECTORY OF NAMES AND ADDRESSES
with Subjects of Research

(alphabetical order)

Unless stated otherwise, information in this directory is based upon data sheets which were sent to the institutes listed in the Directory of Institutes, and returned to the editors before July 1977. Scientists were asked to state their name, degree(s), address, and research subjects in so far as recent, unpublished work in developmental biology was concerned.

Complete entries (with research subjects) are entirely based on the data sheets. Subjects identical to those in vol. 16 were confirmed by the scientists still to be correct.

Entries without research subjects:

a. Persons listed on the sheets as being engaged in research in developmental biology, without further specification of subjects.

b. Persons with a complete entry in vol. 16 who have not returned their sheets. Name, degrees, and addresses were reprinted unchanged from vol. 16 and may be partially out of date.

c. Emeritus professors no longer active in research.

d. Some persons who have not returned data sheets for two or more volumes have been listed nevertheless; cases in point are several I.S.D.B. members.

e. Persons listed in vol. 16 whose death has come to our attention (marked †).

Persons listed in vol. 16 but not in vol. 17:

a. Persons who had research subjects in vol. 16 but are no longer engaged in research in developmental biology.

b. Persons who had no research subjects in vol. 16 and have not returned the sheets for both vol. 16 and 17.

The abbreviation Ms. in names stands for Miss or Mrs.

ABERCROMBIE, M. – Strangeways Res. Lab., Worts Causeway, CAMBRIDGE CB1 4RN, England
a Cell relations in tissue culture. Gallus gallus (Aves), Mus musculus (Rodentia) (with G. A. DUNN and J. P. HEATH)

ABRAHAM, Ms. I.; Ph. D. – Div. of Cell and Devl. Biol., Zool. Inst., Univ. of Bern, Sahlistr. 8, 3012 BERN, Switzerland
a Albumin synthesis during metamorphosis. Xenopus laevis (Anura) (with R. WEBER)

ÅBRO, A. – Inst. of Anat., Univ. of Bergen, Arstadvei 19, 5000 BERGEN, Norway
a Testis development and spermatogenesis. Erinaceus europaeus, Sorex spec., Neomys spec. (Insectivora)

ABRUNHOSA, R.; M. D. – Inst. of Anat., Fac. of Med., Univ. of Porto, Asprela, PORTO, Portugal
a Ultrastructure of the epithelio-mesenchymal interface during early organogenesis. Mus musculus (Rodentia)
b Thymus development. Same species as a
c Transport and fate of ultrastructural tracers injected in the embryonic cardiovascular system. Same species as a

ACCORDI, Ms. F.; Dr.nat.sci. – Ist. di Zool. "Federico Raffaele", Viale dell'Università 32, 00161 ROMA (7), Italy

ACHERMANN, I.; Dipl.nat. – Zool.-Vergl. Anat. Inst., Univ. Zürich, Künstlergasse 16, 8006 ZÜRICH, Switzerland

ADAMS, C. E.; Dr. – A.R.C. Unit of Reprod. Physiol. and Biochem., 307 Huntingdon Rd., CAMBRIDGE CB3 0JQ, England

ADAMSON, Ms. E. D.; Ph.D. – Dept. of Zool., Univ. of Oxford, South Parks Rd., OXFORD OX1 3PS, England

a Biochemical differentiation in teratoma cells in vitro: 1. appearance of tissue-specific markers, such as acetylcholinesterase, creatine phosphokinase and aldolase; 2. appearance of endoderm-specific biochemical markers for example alpha-foetoprotein and basement membrane associated products such as collagen. Mus musculus (Rodentia)

ADINOLFI, M.; M.D., Ph.D. – Paediat. Res. Unit., Guy's Hosp. Med. School, Guy's Tower, LONDON SE1 9RT, England

a Ontogeny of components of complement and lysozyme, using in vitro cultures of fetal tissues and analysis of the newly synthesized proteins by means of autoradiography of immunoelectrophoretic plates. Homo sapiens (Primates)

b Fetal proteins, particularly alpha-fetoprotein (AFP). Homo sapiens (Primates), Mus musculus (Rodentia)

c Immunology of the ontogeny and phylogeny of alcohol dehydrogenase (ADH) isozymes. (Mammalia)

AFZELIUS, B. A.; Fil.Dr. – Wenner-Gren Inst., Norrtullsgatan 16, 113 45 STOCKHOLM, Sweden

a Fine structure of germ cells. (Lower Invertebrata)

AIMAR, C.; D.Sc. – Lab. d'Immunol., Univ. Paris VI, 4 place Jussieu, 75230 PARIS Cedex 05, France

a Nucleo-cytoplasmic interactions during embryonic development, studied by nuclear grafting. (Urodela)

b Cytoplasmic control of first phases of cleavage. (Urodela)

AISENSTADT, T. B. – Inst. of Developm. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.

a Effect of gonadotropins and changes in the germinal vesicle and in the oocyte cytoplasm during maturation. (Acipenseridae, Chondrostei; Amphibia) (with M. N. SKOBLINA)

b Oogenesis. Hydra oligactis (Hydroza)

AKHABADZE, L. V.; Cand.biol.sci. – Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St.26, MOSCOW 117334, U.S.S.R.

a Development and teratology of the iris and ciliary body in organ culture. Rattus norvegicus (Rodentia) (with O. G. STROEVA)

ALBANESE CARMIGNANI, Ms. M. P.; Prof. – Ist. di Zool. e di Anat. Comp., Univ. di Messina, Via dei Verdi 75, 98100 MESSINA, Italy

a Histochemical distribution of the enzymes of carbohydrate metabolism in the Golgi zones of yolk globules. Aplysia depilans (Gastropoda)

ALBERT, J.; D.Sc. – Lab. de Biol. Anim. A, Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE Cedex, France

a Analyse expérimentale de la régionalisation de l'appareil digestif. (Anura)

b Interactions endo-mésodermiques. Rana dalmatina (Anura)

c Établissement de l'asymétrie chez l'embryon. (Anura)

d Culture in vitro du massif endodermique. Même espèce comme b

e Ultrastructure de l'intestin larvaire. (Anura)

ALEKSEEVA, Ms. N. P. – Dept. of Embryol., Leningrad State Univ., Mendeleevsky St. 5, LENINGRAD 199164, U.S.S.R.

a Embryology. (Lubomirskiidae, Porifera)

ALEXANDRE, H. L. – Dept.of Molec.Biol., Free Univ.of Brussels, 67 rue des Chevaux, 1640 RHODE-ST.-GENÈSE, Belgium

a In vivo and in vitro maturation of oocytes (autoradiography, biochemistry). Mus musculus (Rodentia)

b Trophoblast determination during preimplantation development in vitro (cytochemistry, autoradiography, electron microscopy, biochemistry). Same species as a

c Sensitivity to X-rays during early embryonic stages (electron microscopy, cytochemistry, autoradiography, biochemistry). Same species as a

ALEXANDRU, Ms. C.; Dr.med. – Lab. of Embryol., Ctr. of Hyg. and Publ. Health, Bv.Mihai Viteazul 24, 1900 TIMIŞOARA, Rumania

a Experimental teratology of the central nervous system. Gallus domesticus (Aves)

b Development of cerebral vesicles. Same species as a

ALFEI (TORCIA), Ms. L.; Ph.D. – Ist. di Anat. Comp. "Battista Grassi", Univ. di Roma, via A. Borelli 50, 00161 ROMA, Italy

a The development and pattern of movements in the embryo. Salmo gairdneri (Teleostei)

ALLÉAUME (BORDES), Ms. N.; D.Sc. – Lab. de Zool. Exp., Univ. de Bordeaux I, Av. des Facultés, 33405 TALENCE, France

a Descriptive embryology of the thermosensitive mutant 1122. Drosophila spec. (Diptera)

ALPI, A. – Ist. di Orticolt. e Floricolt., Univ. di Pisa, Viale delle Piagge 23, 56100 PISA, Italy

a Gibberellin and cytokinin levels and identification in suspensor. Phaseolus multiflorus (Papilionaceae)

ALVAREZ–GUISADO, L.; Med. Dr. – Inst. F.Olóriz, Fac. of Med., Univ. of Granada, GRANADA, Spain

a Normal and abnormal perinatal heart. Homo sapiens (Primates)

AMBROSI, G.; M.D. – Inst. of Human Anat., Fac. of Med., Univ. of Bari, Policlinico, 70124 BARI, Italy

a Morphological and experimental research on conjunctival papillae and scleral ossicles. Gallus domesticus (Aves)

b Relationships between vascular and cytoarchitectural patterns during development of spinal cord under normal and experimental conditions. Same species as a

c Vascular patterns in ganglia of the visceral nervous system. Same species as a

AMELS, Ms. D.; M.D. – Lab. of Embryol., Ctr. of Hyg. and Publ. Health, Bv.Mihai Viteazul 24, 1900 TIMIŞOARA, Rumania
a Experimental teratology and teratological screening. Mus musculus, Rattus norvegicus (Rodentia)
AMER, M.; M.Sc. – Lab. de Morphogen. Végét., Univ. d'Aix-Marseille III, Fac. St-Jérôme, rue Henri Poincaré, 13397 MARSEILLE Cedex 4, France
a Control of vascular histogenesis: 1. working of normal cambium; 2. neoformation of cambium; 3. differentiation of various kinds of xylem cells (hormonal control). Gleditsia triacanthos (Leguminosae)
AMOROSO, E. C.; F.R.S., Prof. – A.R.C. Inst. of Anim. Physiol., Brabaham, CAMBRIDGE CB2 4AT, England
a Immunology of trophoblast
AMPRINO, R. M.; M.D., Prof. – Inst. of Human Anat., Fac. of Med., Univ. of Bari, Policlinico, 70124 BARI, Italy
a Relations between ectoderm and mesoderm in wing morphogenesis. Gallus domesticus (Aves)
b Regulative capacities of the wing anlage. Same species as a
c Relations between cell density and cell proliferation in the limb bud. Same species as a
ANDERSEN, Ms. L.; DDS – Dept. of Oral Pathol., Royal Dent. Coll., Vennelyst Blvd., 8000 ARHUS C, Denmark
a Migrating epithelial cells in palatal wounds: cytology; scanning electron microscopy; morphometry; treatment with anti-neutrophilic serum. Cavia porcellus (Rodentia) (with O. FEJERSKOV)
ANDRE, F.; D.Sc., Prof. – Lab. de Zool.A, Inst. de Biol. Anim., Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE, France
a Sexual differentiation in hermaphrodites. Eisenia spec., Dendrobaena spec., Lumbricus spec., Allolobophora spec. (Oligochaeta), Planorbis spec., Lymnaea spec. (Gastropoda)
ANDRIEUX, B.; Dr.3è cycle – Lab. d'Embryol. Exp., Centre de Rech. du CNRS, 67 rue Maurice Günsbourg, 94200 IVRY-sur-SEINE, France
a Organogenèse et cytodifférenciation de l'hypophyse (microchirurgie, cytologie ultrastructurale). Pleurodeles waltl (Urodela)
ANDRIEUX, Ms. N.; Lic.ès Sci. – Lab. de Génét. Evolut. et de Biomét., C.N.R.S., 91190 GIF-sur-YVETTE, France
ANGELIER-DELOBEL, Ms. N.; Dr.3e Cycle – Lab. de Génét. du Dévl., Univ. P.et M. Curie, Ctr. de Rech. d'Ivry, 67 rue M.Günsbourg, 94200 IVRY-sur-SEINE, France
a Transcription: visualization of nucleolar and chromosomal genes in oocytes; action of inhibitors on nuclear RNA biosynthesis. Pleurodeles waltl, P. poireti (Urodela)
ANTILA, E. J.; M.Sc. – Dept. of Med. Biol., Univ. of Helsinki, Siltavuorenpenger 20A, 00170 HELSINKI 17, Finland
a Steroid metabolism studied by incubation with labelled precursors, gas chromatography and TLC in oocytes, embryo and larva of Xenopus laevis, Rana temporaria, Triturus vulgaris (Amphibia), in preimplantation stages of Mus musculus (Rodentia), and in embryos of Gallus domesticus (Aves) and Salmo gairdneri (Teleostei)
ANTON, H. J.; Dr.phil., Prof. – Zool. Inst. der Univ., Weyertal 119, 5 KÖLN 41, B.R.D. (Germany)
a Protein metabolism during regeneration processes. Triturus vulgaris, T. alpestris (Urodela)
b Amino acid metabolism in regenerating tissues. Ambystoma mexicanum, Triturus vulgaris (Urodela)
c DNA synthesis and cell cycle determination in regenerating systems. Same species as a
APEKIN, V. S. – All-Union Res. Inst. of Marine Fish. and Oceanogr. (VNIRO), Lab. of Physiol. and Biochem. of Fishes, V.Krasnoselskaya St.17, MOSCOW 107140, U.S.S.R.
a Experimental and immunological study of maturation processes. Gobius melanostomus, G. batrachocephalus, Mugil cephalus, M. auratus (Teleostei)
ap GWYNN, I.; Ph.D. – Zool. Dept., Univ. Coll. of Wales, Penglais, ABERYSTWYTH SY23 3DA, Wales, U.K.
a Function of mitotic apparatus proteins in the interphase part of the cell cycle.
b Modifications of cell surfaces during cell cycle and differentiation (electron microscope microanalysis)
APPLEBY, D. W.; Ph.D. – Inst. Suisse de Rech. Exp. sur le Cancer, Unité de Biol. du Dévél., ch.Boveresses, 1066 EPALINGES, Switzerland
a Size of chromatin subunits in epithelial and fiber cell populations of developing lens; characterization of various chromatin proteins. Gallus gallus (Aves) (with S. P. MODAK)
ARANEGA-JIMENEZ, Ms. A. – Inst. F.Olóriz, Fac. of Med., Univ. of Granada, GRANADA, Spain
a Experimental embryology of late periods of heart morphology. Gallus gallus (Aves)
ARNOLDS, W. J. A.; M.Sc. – Zool. Lab., State Univ. of Utrecht, Transitorium III, Padualaan 8, UTRECHT, Netherlands
a Genomic control of early development studied by X-irradiation induced lethal mutants. Lymnaea stagnalis (Gastropoda)
ARRU, Ms. A.; Dr. – Ist. di Zool., Univ. di Sassari, Via Murroni 25, 07100 SASSARI, Italy
ARTAVANIS-TSAKONAS, S.; Ph.D. – Abt. Zellbiol., Biozentrum der Univ., Klingelbergstr. 70, 4056 BASEL, Switzerland
a Cloning of insect DNA in E.coli. Drosophila melanogaster (Diptera)
b Biochemical analysis of early development. Same species as a
ARTIS, J. P. – Lab. de Zool., Univ. de Nancy I, C.O.140, 54037 NANCY Cedex, France
a Regeneration of teeth from their germs in adults. Cavia porcellus (Rodentia)
ASHBURNER, M.; Ph.D. – Dept. of Genet., Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3EH, England

a Control of gene action during development, especially studied in puffing. Drosophila melanogaster (Diptera)
b Chromosome function during development. Anopheles stephensi (Diptera)

ASHBY, K. R.; Ph.D. – Dept. of Zool., Univ. of Durham, Science Labs., South Rd., DURHAM DH1 3LE, England
a The development of the reproductive system and the modifications induced by treatment with steroid hormones during the course of sexual differentiation. Salmo irideus, S. trutta (Teleostei), Xenopus laevis (Anura)

ASHWORTH, J. M.; Dr., Prof. – Biol. Dept., Univ. of Essex, Wivenhoe Park, COLCHESTER, Essex CO4 3SQ, England
a Effect of growth conditions (especially glucose) on development of amoebae. Dictyostelium discoideum (Acrasiales)
b Cytogenetics. Same species as a
c Relationship between cell cycle and development. Same species as a

AUGSTEN, H.; Dr.habil., Prof. – Sekt. Biol.-Pflanzenphysiol., Friedrich Schiller Univ., von-Hase-Weg 3, 69 JENA, D.D.R. (Germany)

AUGUSTI (TOCCO), Ms. G.; Dr. – Lab. of Molec. Embryol., Consiglio Naz. delle Richerche, via Toiano 2, ARCO FELICE, C.P.3042, 80100 NAPOLI, Italy
a Mechanisms regulating the expression of differentiated functions in neuroblastoma culture, especially role of cell surface

AUROUX, M.; Dr. Méd., Prof. – Lab. d'Histol.-Embryol., Fac. de Méd. de Bicêtre, 45 rue des Sts.Pères, 75 PARIS VIe, France
a Perturbations tardives du système nerveux central compatibles avec la vie (baisse de la capacité d'apprentissage). Rattus norvegicus (Rodentia)
b Influence de la nutrition de la mère sur le développement du système nerveux central de la progéniture; amélioration de la capacité d'apprentissage de la progéniture. Rattus rattus (Rodentia)

AUSTIN, C. R.; D.Sc., Prof. – Marshall Lab., Dept. of Physiol., Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3EG, England
a Fusion between spermatozoa, eggs and other cells. Mesocricetus auratus, Mus musculus (Rodentia)

BABAYEVA, Ms. A. G.; Dr.med. – Inst. of Human Morphol., Acad. of Med. Sci. of the USSR, Tsurupa St. 3, MOSCOW 117469, U.S.S.R.
a The immunological mechanisms controlling the processes of compensatory hypertrophy and regeneration of parenchymal organs. Mus musculus, Rattus norvegicus (Rodentia)

BABURINA, Ms. E. A.; Dr.biol. – Koltzov's Lab. of Cell Differ., Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.
a Development of regional differences in neural retina and pigment epithelium (synthesis of DNA, RNA, electron microscopy). Acipenser stellatus, A. güldenstädti (Chondrostei) (with V.I. MITASHOV and O. G. STROEVA)

BACHMANN, P.; Dr.–Lehrst. für Anat. I, Ruhr-Univ., Universitätsstr. 150, Postfach 102148, 4630 BOCHUM 1, B.R.D. (Germany)
a Quantification of chromatin structure during myogenesis (texture analysis). Mus musculus (Rodentia)
b Quantification of chromatin structure and DNA contents in nuclei of cultured cells (texture analysis) during the cell cycle. WISH cell line (amnion). Homo sapiens (Primates)

BACKHOUSE, K. M.; VRD – Royal Coll. of Surgeons of England, Lincoln's Inn Fields, LONDON WC2A 3PN, England

BÄCKSTRÖM, S. A. A.; Fil.Dr. – Wenner-Gren Inst., Norrtullsgatan 16, 113 45 STOCKHOLM, Sweden
a Basic proteins during oogenesis and early development (biochemistry, histochemistry, autoradiography). Paracentrotus lividus, Psammechinus miliaris (Echinoidea)
b Cyclic nucleotides in morphogenesis and behaviour of sea urchin larvae. Psammechinus miliaris (Echinoidea)

BADET, Ms. M. T.; Dr.biol.anim. – Lab. de Zool. A, Inst. de Biol. Anim., Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE, France
a Immune reactions against embryos in pregnant females. Salamandra salamandra (Urodela)

BAEHNY, A. – Dépt. d'Embryol. et Tératol. Exp., Inst. de Biol. Anim., Fac. des Sci., Univ. de Fribourg, 1700 FRIBOURG, Switzerland
a Cephalic induction and organ interactions; skull morphogenesis; interspecific grafts of encephalic territories. Gallus gallus, Coturnix c. japonica (Aves)

BAEVSKY, J. B.; Dr.biol. – A.N.Severtzov Inst. of Evol. Morphol. and Ecol. of Animals, Acad. of Sci. of the USSR, Lenin Ave.33, MOSCOW 117071, U.S.S.R.
a Cytology of embryonic retardation and activation. Mustela zibellina (Carnivora), Rattus spec. (Rodentia)
b State of maternal endocrine glands during embryonic diapause and activation. Same species as a

BAFFONI, G. M.; Dr.Biol., Prof. – Ist. di Anat. Comp., Univ. di Modena, Via Berengario 14, 41100 MODENA, Italy
a Growth and differentiation of nerve cells. (Cyclostomata; Teleostei; Amphibia; Aves; Mammalia)
b Regeneration of nerve fibres during larval life. (Urodela)

BAGNALL, K. M.; Ph.D. – Dept. of Anat., Med. School, Univ. of Manchester, MANCHESTER M13 9PT, England
a Development of skeleton and of movement. Homo sapiens (Primates)

BAGUÑA, J.; Ph.D. – Dept. de Genet., Univ. de Barcelona, plaça Universidad, BARCELONA-7, Spain

a Isolation and characterization of morphogenetic factors involved in growth and regeneration. Dugesia mediterranea (Turbellaria)
b Cell cycle kinetics of neoblasts and differentiating cells (thymidine incorporation). Same species as a
c In vitro culture of neoblasts and differentiated cells. Same species as a

BAILLY, Ms. S. E.; D.Sc. – Lab. de Zool., École Normale Supérieure, 46 rue d'Ulm, 75230 PARIS Cedex 05, France
a Q-banding of metaphase chromosomes. Pleurodeles poireti, P. waltl (Urodela)
b Localization of satellite DNA on metaphase chromosomes; relation with heterochromatin and secondary constrictions induced by cold treatment. Pleurodeles waltl (Urodela)

BAKER, R. E.; Ph.D. – Netherl. Inst. for Brain Res., IJdijk 28, AMSTERDAM, Netherlands
a Interaction of nerve cells and behaviour during maturation of the nervous system. Discoglossus pictus, Rana esculenta (Anura), Rattus norvegicus (Rodentia)
b Factors underlying specific interneuronal connections; morphology and physiology of spinal ganglion cells (skin-spinal cord preparation). Rana pipiens, Bufo vulgaris, Discoglossus pictus (Anura)
c Electrophysiology of in vivo and in vitro sensory ganglion cells (skin-spinal cord preparation). Rattus norvegicus (Rodentia)

BAKER, T. G.; Ph.D., D.Sc. – Hormone Lab., Dept. of Obstet. and Gynecol., Univ. of Edinburgh, 23 Chalmers St., EDINBURGH EH 3 9EW, Scotland, U.K.
a Oogenesis. (Rodentia; Primates)
b The effects of X-rays on female germ cells. Same species as a
c The fine structure and metabolic activity of oogonia and oocytes. Same species as a
d Cytology and endocrinology of ovulation, fertilization, and early development in vitro. Rattus norvegicus, Mus musculus (Rodentia), Homo sapiens and other Primates
e Structure and hormonal control of the placenta in organ culture. Homo sapiens (Primates)
f Control of pituitary development and secretion in organ culture. Rattus norvegicus (Rodentia), Oryctolagus cuniculus (Lagomorpha), Homo sapiens (Primates)

BAKHUIS, W. L.; Drs. – Netherl. Inst. for Brain Res., IJdijk 28, AMSTERDAM, Netherlands
a Interaction of nerve cells and behaviour during maturation of the nervous system. Discoglossus pictus, Rana esculenta (Anura), Rattus norvegicus (Rodentia)

BALAKHONOV, A. V. – Dept. of Embryol., Leningrad State Univ., Mendeleevsky St. 5, LENINGRAD 199164, U.S.S.R.
a Action of immunodepressors on reparative and physiological regeneration. Gallus gallus (Aves)

BALAKIER, Ms.. H. – Dept. of Embryol., Zool. Inst., Univ. of Warsaw, Krak.Przedmieście 26/28, 00-927 WARSZAWA, Poland
a Nucleo-cytoplasmic interactions during oogenesis and preimplantation development. Mus musculus, Clethrionomys glareolus (Rodentia)
b Sex differentiation. Mus musculus (Rodentia)

BALLS, M.; D.Phil. – Dept. of Hum. Morphol., Med. School, Univ. of Nottingham, Clifton Blvd. NOTTINGHAM NG7 2UH, England
a Neoplasms. Xenopus laevis and other spp. (Amphibia)
b Control of cell division. Xenopus laevis (Anura), Amphiuma means, Triturus cristatus (Urodela)
c Organ culture of liver, heart, skin, kidney and other organs. Amphiuma means, Necturus maculosus (Urodela)
d Development of the immune response and role of thymus. Xenopus laevis (Anura)

BALTUS, Ms. E. J.; D.Sc. – Dept. of Molec. Biol., Free Univ. of Brussels, 67 rue des Chevaux, 1640 RHODE-ST.-GENÈSE, Belgium
a Mechanisms of in vitro maturation. Xenopus laevis (Anura)

BARA, M. C.; Dr.3e Cycle – Lab. de Biol. de la Reprod., Univ. Paris VI (P.et M. Curie), Bât.A, 7e étage, 7 quai Saint-Bernard, 75230 PARIS Cedex 05, France
a Permeability of the placental membrane; conductance of co-ions and counter-ions (electrophysiological techniques). (Mammalia)

BARABANOV, V. M.; Cand.biol.sci. – Inst. of Human Morphol., Acad. of Med. Sci. of the USSR, Tsurupa St.3, MOSCOW 117469, U.S.S.R.

BARASTEGUI ALMAGRO, C. – Dept. of Anat., Univ. of Barcelona, C/.Casanova 143, BARCELONA 11, Spain
a Development and reserpine. Gallus domesticus (Aves)
b Regeneration capacity and reserpine. Dugesia gonocephala (Turbellaria)

BARBIER, R.; Dr. – Lab. de Biol. Anim. 1er Cycle, Univ. de Rennes, Av. du Gén.Leclerc, 35031 RENNES Cedex, France
a Morphogenesis, metamorphosis and regeneration: fine structure and function of egg-shells, cuticles and epidermal glands (Verson's glands and colleterial glands). Galleria mellonella (Lepidoptera)

BARBOSA AYUCAR, E.; Dr.med., Prof. – Serv. Embriol. Exp., Dept. Anat., Alava Univ., VITORIA, Spain
a Effect of catecholamines in development. Gallus domesticus (Aves)

BARIGOZZI, C.; D.Sc., Prof. – Ist. di Genet., Univ. di Milano, Via Celoria 10, 20133 MILANO, Italy
a Differentiation potency of cultured cells injected into larvae. Drosophila melanogaster (Diptera)

BARLOW, P. W.; D.Phil. – A.R.C. Unit of Developm. Bot., Univ. of Cambridge, 181A Huntingdon Rd., CAMBRIDGE CB3 0DY, England

BARNES, R. D.; M.D. – Dept. of Embryol. and Foetal Developm., Clin. Res. Ctr., Watford Rd., HARROW, Middlesex HA1 3UJ, England
a Interaction between factors inducing tumour susceptibility and those leading to tumour

resistance (embryo transfer and aggregation). Mus musculus (Rodentia)
b Effect of in vitro fertilization on development of chromosome abnormalities. Mus musculus, Rattus spec. (Rodentia), Homo sapiens (Primates)

BARSACCHI (PILONE), Ms. G.; Dr.Biol. – Inst. of Histol. and Embryol., Univ. of Pisa, Via A. Volta 4, 56100 PISA, Italy
a Mitotic and lampbrush chromosomes; DNA analysis and in situ RNA/DNA hybridization. (Urodela)

BARSON, A. J.; M.D. – Dept. of Pathol., Univ. of Manchester, Stopford Bldg., Oxford Rd., MANCHESTER M13 9PT, England

BART, A.; D.Sc. – Serv. de Biol. Anim., Univ. des Sci. et Techn. de Lille, B. P. 36, 59650 VILLENEUVE D'ASCQ, France
a Morphogenesis and regeneration. Carausius morosus (Phasmida)
b Mitosis in regeneration (experimental study, hormonal regulation). Same species as a
c Wing morphogenesis and regeneration (experimental study, ultrastructure). Sipyloidea sipylus (Phasmida) (with E. BROWAEYS)
d In vitro analysis of morphogenesis and regeneration. Same species as a
e Limb morphogenesis. Mus musculus (Rodentia) (with X. DESBIENS)

BASTIAN, D. – Lab. d'Anat., Univ. de Paris V, 45 rue des Saints Pères, 75270 PARIS Cedex 06, France

BATISTONI, Ms. R.; Dr.Biol. – Inst. of Histol. and Embryol., Univ. of Pisa, Via A. Volta 4, 56100 PISA, Italy
a Mitotic and lampbrush chromosomes; DNA analysis and in situ RNA/DNA hybridization. (Urodela)

BAUMANN, J. A.; Dr., Prof. – Inst. d'Anat., Univ. de Genève, 20 rue Ecole de Médecine, 1211 GENÈVE 4, Switzerland

BAUMGARTEN, H.G.; Dr.med., Prof. – Anat. Inst., Abt. Neuroanat., Univ.-Krankenhaus Eppendorf, Martinistr. 52, 2 HAMBURG 20, B.R.D. (Germany)
a Development of monoamine-containing neurons in the brain, especially effect of neurotoxic drugs and correlation with anterior pituitary hormones. Mus musculus, Rattus spec. (Rodentia)

BAUR, R.; Dr. – Anat. Inst. der Univ., Pestalozzistr. 20, 4056 BASEL, Switzerland
a Morphometry of placenta; comparison of placental villous surface with volume of fetus and placenta during pregnancy and at term. Rattus norvegicus, Felis domestica, Sus domesticus, Bos taurus, Equus caballus, Homo sapiens and other species (Mammalia)

BAUTZ, A.; Dr.Spéc. – Lab. de Zool., Univ. de Nancy I, C.O. 140, 54037 NANCY Cedex, France
a Cellular degeneration in abortive regeneration blastemas: effects of X-irradiation. Dendrocoelum lacteum (Turbellaria)
b Effet de jeûne prolongé sur les capacités de régénération. Même espèce comme a

BAUTZ (PORTMANN), Ms. A. M.; D.Sc. – Lab. de Zool., Univ. de Nancy I, C.O. 140, 54037 NANCY Cedex, France
a Larval cells and histoblasts in the abdominal integument. Calliphora erythrocephala (Diptera)
b Mechanism of the degeneration of larval cells. Same species as a

BAXTER, E. W.; Ph.D. – Biol. Dept., Guy's Hosp. Med. School, LONDON SE1 9RT, England
a Biology, including development and metamorphosis. Petromyzon spec. (Cyclostomata)

BAZITOV, A. A.; M.Sc. – Vladivostokskij Med. Inst., VLADIVOSTOK 690002, U.S.S.R.
a Morphology of spermatogenesis. Biacetabulum appendiculatum (Caryophyllidea, Cestoda)
b Morphology of spermatogenesis and development. Amphilina japonica (Cestodaria, Cestoda)

BEATTY, R. A.; Ph.D., F.R.S.E. – Dept. of Genet., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JN, Scotland, U.K.
a Breeding of genetically tagged strains for use in developmental biology. Oryctolagus cuniculus (Lagomorpha)
b Developmental biology and genetics of gametes. Mus musculus (Rodentia), Oryctolagus cuniculus (Lagomorpha), Homo sapiens (Primates)
c Aetiology of heteroploidy. Oryctolagus cuniculus (Lagomorpha), Homo sapiens (Primates)

BEAUMONT, A.; D.Sc., Prof. – Lab.de Biol.-Vertébrés, Centre d'Orsay, Univ. de Paris XI, Bât. 441, 91405 ORSAY, France

BEAUPAIN (CREPY), Ms. D.; D.Sc. – Inst. d'Embryol. du C.N.R.S. et du Collège de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a La différenciation chimique du pancréas de l'embryon. Gallus domesticus (Aves)
b Erythropoièse embryonnaire. Même espèce comme a

BEAUPAIN, R.; Dr. – Inst. d'Embryol. du C.N.R.S. et du Collège de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Effects on DNA synthesis of X-irradiation and DNA repair in developing and regressing embryonic organs. Gallus domesticus (Aves)

BECCHETTI, E.; Dott.Sci.Biol. – Inst. of Histol. and Gen. Embryol., Univ. of Ferrara, Via Fossato di Mortara 64, 44100 FERRARA, Italy
a Histochemistry of blood vessel morphogenesis in vitro. Bos taurus (Artiodactyla)
b Epithelio-mesenchymal interactions in lung and skin morphogenesis in vitro (histochemistry, ultrastructure, biochemistry). Gallus domesticus (Aves)

BECK, F.; M.D., Prof. – Anat. Dept., Univ. of Leicester, Med. Sci. Bldg., University Rd., LEICESTER LE1 7RH, England
a The effect of trypan blue on development. Rattus spec. (Rodentia), Mustela putorius furo (Carnivora)
b Embryonic nutrition. Same species as a
c The postnatal maturation of intestinal epithelium. Rattus spec., Cavia porcellus (Rodentia),

Oryctolagus cuniculus (Lagomorpha), Mustela putorius furo (Carnivora)

BECKER, V.; Dr.med., Prof. – Pathol. Inst. der Univ. Erlangen-Nürnberg, Krankenhausstr. 8-10, 8520 ERLANGEN, B.R.D. (Germany)

a General and special pathology of placenta. Homo sapiens (Primates)
b Embryology and teratology of the liver, especially of the bile ducts. Same species as a
c Embryology and teratology of the skeleton, especially of the chondro- and neurocranium. Same species as a

BEETSCHEN, J. C.; D.Sc., Prof. – Lab. de Biol. Gén., Univ. Paul-Sabatier, 118 Rte de Narbonne, 31077 TOULOUSE Cedex, France

a Chemical mutagenesis (Urodela) (with A. JAYLET and V. FERRIER)
b The recessive semi-lethal factor ac: temperature-sensitivity of homozygous mutants; maternal effect in the progeny of mutant females. Pleurodeles waltl (Urodela) (with M. FERNANDEZ)
c Genetical aspects of protein and enzyme differentiation in embryonic and larval stages. Same species as b (with F. GASSER and A. JAYLET)
d Mesodermal determination of the posterior neural plate. Ambystoma mexicanum (Urodela)

BEETZ, Ms. B. – Inst. für Genet., Univ. des Saarlandes, 66 SAARBRÜCKEN 11, B.R.D. (Germany)

a Influence of inorganic ions on mitosis in neuroblasts. Carausius morosus (Phasmida)

BEIER, H. M.; Dr.rer.nat., Dr.med., Prof. – Abt. Anat. der Rhein.-Westf. Techn. Hochschule, Med.-Theor. Inst., Melatener Str.211, 5100 AACHEN, B.R.D. (Germany)

a Experimental developmental morphology of preimplantation stages, postimplantation stages, and their endocrinological developmental control. Oryctolagus cuniculus (Lagomorpha), Cavia porcellus, Rattus spec. (Rodentia)
b Specific uterine proteins (e.g. uteroglobin) and their hormonally controlled interference with blastocyst development. Oryctolagus cuniculus (Lagomorpha), Homo sapiens (Primates)
c Experiments on development of accessory male genital glands. Oryctolagus cuniculus (Lagomorpha)

BEINBRECH, G.; Dr., Prof. – Zool. Inst. der Univ., Arb.gr. Muskelphysiol., Hindenburgplatz 55, 44 MÜNSTER/Westf., B.R.D. (Germany)

a Development of flight muscles during metamorphosis: formation of the myofibrils and of the sarcotubular system. Phormia terrae-novae (Diptera)

BELLAIRS, A. d'A.; D.Sc., Prof. – Dept. of Anat., St. Mary's Hosp. Med. School, Norfolk Place, LONDON W2 1PG, England

a Morphogenesis of skeleton. many species (Reptilia; Aves; Mammalia)
b Embryonic membranes. many species (Reptilia)
c Regeneration. Same species as b

BELLAIRS, Ms. M. R.; Ph.D. – Dept. of Anat. and Embryol., Univ. Coll. London, Gower St., LONDON WC1E 6BT, England

a Electron microscopy and histochemistry of yolk formation. Gallus domesticus (Aves)
b Cell migration within the embryo. Same species as a (with P. PORTCH and E. J. SANDERS (Canada))
c Cleavage. Same species as a (with F. LORENZ, Davis, Calif.)
d Scanning electron microscopy in the embryo. Same species as a
e Freeze-fracture studies of embryos. Same species as a (with A. S. BREATHNACH, St.Mary's Hosp.)

BELOUSSOV, L. V.; Dr.biol. – Chair of Embryol., Biol. Fac., State Univ. of Moscow, Lenin Hills, MOSCOW 117234, U.S.S.R.

a Patterns of tensile stresses, contact cell polarization and their relation to differentiation of axial mesoderm. Rana temporaria (Anura), Gallus domesticus (Aves)
b Growth rhythms and morphogenesis. Hydra spec., Thecaphora (Hydrozoa)

BENEDETTI, E.; Dr.Biol. – Ist. di Anat. Comp., Univ. di Modena, Via Berengario 14, 41100 MODENA, Italy

a Development of intramedullary ganglion cells. (Labridae & Sygnathidae: Teleostei)
b Glycogen in the central nervous system; viviparous and ovoviparous spp. (Teleostei)

BENSON, P. F.; M.D., Ph.D. – Paediat. Res. Unit, Guy's Hosp. Med. School, Guy's Tower, LONDON SE1 9RT, England

a Development of enzyme systems before and after birth. Homo sapiens (Primates)
b Prenatal diagnosis of metabolic diseases by cultured amniotic cell enzyme assay. Same species as a

BENTYN, K.; M.D. – Lab. of Exper. Embryol., Inst. of Obstet. and Gynecol., Med. Acad., Karowa 2, 00-315 WARSZAWA, Poland

BEREITER-HAHN, J.; Dr.phil.nat., Prof. – Arb.gr. Kinemat. Zellforsch., Univ., Senckenberganlage 27, 6000 FRANKFURT/M., B.R.D. (Germany)

a Electron microscopy of pigment granule formation in melanophores. Pterophyllum scalare (Cichlidae), Lebistes reticulatus (Poeciliidae, Teleostei)
b Ultrastructure of the development of flame cells in the skin. Hippocampus spec. (Teleostei)
c Interference microscopy of tadpole heart cell cycle, measuring of mitochondrial amount and structure by vital fluorimetry; electron microscopy of cells during different states of cell cycle. Xenopus laevis (Anura)

BERGERARD, J.; D.Sc., Prof. – Stat. Biol., place Georges-Teissier, 29211 ROSCOFF, France

a Physiology of spawning and induction of meiosis in the oocytes. Patella vulgata, P. aspera, P. depressa, Gibbula cineraria (Gastropoda)
b Regression and regeneration of genital tract in the seasonal sexual cycle. Littorina saxatilis (Gastropoda)

BERGHOEF, J.; Ir. – Dept. of Plant Physiol., Agric. Univ., Arboretumlaan 4, WAGENINGEN, Netherlands

BERKOVITZ, B. K. B. – Anat. Dept., Bristol Univ., University Walk, BRISTOL BS8 1TD, England
BERNARD, C.; Lic.ès Sci. – Lab. de Physiol. Anim., Univ. de Poitiers, Bât.P, 40 av. du Recteur Pineau, 86022 POITIERS, France
no work on developmental biology in progress
BERNARD, Ms. J.; M.Sc. – Lab. de Morphogen. Végét., Univ. d'Aix-Marseille III, Fac. St-Jérôme, rue Henri Poincaré, 13397 MARSEILLE Cedex 4, France
a Experiments on the working of vegetative and floral meristems. Pisum sativum (Leguminosae)
BERNHARD, H. P.; Ph.D. – Abt. Zellbiol., Biozentrum der Univ., Klingelbergstr. 70, 4056 BASEL, Switzerland
a Stability and inheritance of the determined state in vitro (somatic cell genetics: mutagenesis, mutant selection, cell fusion). Drosophila melanogaster (Diptera)
b Gene dosage in vitro, and application to genetic mapping. Same species as a
BERNOCCHI, Ms. G.; Ph.D., Prof. – Inst. of Histol., Embryol. and Anthropol., Univ. of Pavia, Piazza Botta 10, 27100 PAVIA, Italy
a Maternal malnutrition as a cause of placental insufficiency and of abnormal fetal development, especially cerebellar pre- and post-natal histogenesis (qualitative and quantitative histochemistry). Rattus rattus (Rodentia)
b Normal and pathological spermatogenesis (quantitative cytochemistry). (Mammalia)
BERREUR (BONNENFANT), Ms. J.; Dr.ès Sci. – Lab. de Génét. Evolut. et de Biomét., C.N.R.S., 91190 GIF-sur-YVETTE, France
BERRY, M.; Ph.D. – Dept. of Anat., Med. School, Univ. of Birmingham, Edgbaston, BIRMINGHAM B15 2TJ, England
a Effects of X-irradiation on central nervous development. Rattus spec. (Rodentia)
b Development of cerebral and cerebellar cortex. Same species as a
c Regeneration in the central nervous system. Same species as a
BERTINI, Ms. M.; M.D. – Cell and Molec. Biol. Lab., Dept. of Human Anat., Univ. of Torino, Corso M.d'Azeglio 52, 10126 TORINO, Italy
a Cell membrane differentiation; immunochemistry of surface macromolecules. Mus musculus (Rodentia)
b Membrane-mediated growth control in BHK (baby hamster kidney) cells. Mesocricetus auratus (Rodentia)
BERTMAR, G.; Ph.D. – Sect. of Ecol. Zool., Dept. of Biol., Univ. of Umeå, 90187 UMEÅ, Sweden
a Experimental developmental morphology of the olfactory organ. Salmo spec. (Teleostei)
BERTOLANI, R.; Dr.Biol. – Ist. di Anat. Comp., Univ. di Modena, Via Berengario 14, 41100 MODENA, Italy
a Morphology of neotenic and metamorphosed animals. Triturus alpestris (Urodela)
b Gametogenesis in parthenogenetic and amphigonic animals. Macrobiotus spp., Hypsibius spp., Isohypsibius spp., Diphascon spp. (Tardigrada)
BERTON (PECHEUX), Ms. F.; Dr.3è Cycle – Ctr. de Biol. Appl., Fond. Hersent-Luzarche, Univ. de Tours, 36290 AZAY-LE-FERRON, France
BERTON, J. P.; Dr. – Ctr. de Biol. Appl., Fond. Hersent-Luzarche, Univ. de Tours, 36290 AZAY-LE-FERRON, France – Ctr. de Rech. Vét. et Zootechn., Lab. de Physiol. de la Reprod., (INRA), 37 NOUZILLY, France
BERTOUT, M.; Dr.3e cycle – Serv. de Biol. Anim., Univ. des Sci. et Techn. de Lille, B.P.36, 59650 VILLENEUVE D'ASCQ, France
a Action hormonale au niveau du noyau des cellules germinales mâles et femelles. Nereis spec. (Polychaeta)
BESSE, G.; Dr. – Lab. de Physiol. et Génét. des Crustacés, Univ. de Poitiers, 40 av. du Recteur Pineau, 86022 POITIERS Cedex, France
a Influence des facteurs externes et internes sur les cycles sexuels des femelles. Ligia oceanica, Porcellio dilatatus (Isopoda, Crustacea)
BETTANIN (BELGRANO), Ms. S.; Dr.nat.sci. – Ist. di Zool., Univ. di Genova, Via Balbi 5, 16126 GENOVA, Italy
a Embryonic development of a parthenogenetic marine form. Penilia avirostris (Cladocera, Crustacea) (with N. DELLA CROCE)
b Growth of the embryo. Same species as a (with N. DELLA CROCE)
c Formation of resting eggs. Same species as a (with N. DELLA CROCE)
BEUG, H.; Ph.D. – Max-Planck Inst. für Virusforsch., Abt.III, Spemannstr. 35-III, 74 TÜBINGEN, B.R.D. (Germany)
a Mechanism of transformation of embryonic fibroblasts by avian sarcoma viruses (RNA-tumor). Gallus domesticus (Aves)
BEYNON, A. D. G.; Ph.D. – Dept. of Oral Anat., Dental School, Northumberland Rd., NEWCASTLE upon Tyne NE1 8TA, England
BEYSE, J.; Dr.rer.nat., Dipl.Biol. – Inst. für Genet., Univ. des Saarlandes, 66 SAARBRÜCKEN 11, B.R.D. (Germany)
a Relations between electrolyte milieu and gene activities in giant chromosomes; direct measurements of ion contents in nuclei and cytoplasm. Chironomus thummi (Diptera)
BEZEM, J. J.; Ir. – Zool. Lab., State Univ. of Utrecht, Transitorium III, Padualaan 8, UTRECHT, Netherlands
a Computer simulation of embryonic development. (with Chr. P. RAVEN)
BIELAŃSKA-OSUCHOWSKA, Ms. Z.; Dr., Prof. – Dept. of Histol. & Embryol., Warsaw Agric. Univ., ul.Nowoursynowska 166, 02-766 WARSZAWA, Poland
a Histochemistry and ultrastructure of the development of gonads, adrenals, and placenta. Sus scrofa domesticus (Artiodactyla)

b Histochemistry and ultrastructure of oogenesis. (Insecta; Mammalia)

BIÉTRY, Ms. A. F. – Lab. de Zool. et Embryol., Univ. de Besançon, place Maréchal Leclerc, 25030 BESANÇON Cedex, France

a Influence des hormones sexuelles sur la différenciation des glandes mammaires d'embryons. Oryctolagus cuniculus (Lagomorpha)

BIGGELAAR, J. A. M. v.d.; Ph.D. – Zool. Lab., State Univ. of Utrecht, Transitorium III, Padualaan 8, UTRECHT, Netherlands

a Significance of division chronology, cell adhesion and cell contacts in the process of dorsoventralisation and early differentiation. Lymnaea stagnalis, Patella vulgata, Haliotis tuberculata (Gastropoda), Dentalium vulgare (Scaphopoda)

BIJTEL, Ms. J. H.; D.Sc., M.D. – De Boelelaan 275, "Zuidwende", AMSTERDAM, Netherlands

BILIŃSKI, S.; D.Sc. – Zool. Dept., Jagellonian Univ., ul.Krupnicza 50, KRAKÓW, Poland

a Vitellogenesis (Protura)

BILLAT (CARLIER), Ms. C.; D.E.S. – Lab. de Physiol. Anim., Univ. de Reims, B.P. 347, 51062 REIMS Cedex, France

a Hemopoietic function of the foetal liver; factors controlling its progressive disappearance. Rattus norvegicus (Rodentia) (with R. L. JACQUOT, J. NAGEL and M. D. NAGEL)

BILLETT, F. S.; Ph.D. – Dept. of Biol., The Univ., Bldg.25, SOUTHAMPTON SO9 5NH, England

a The formation of mitochondria in oocytes. Xenopus laevis (Anura)

b Origin and formation of oocytes. Ascaris spec., Turbatrix spec. (Nematoda)

BILLINGTON, W. D.; Ph.D. – Dept. of Pathol., Univ. of Bristol, University Walk, BRISTOL BS8 1TD, England

a Immunology of reproduction. Mus musculus (Rodentia), Homo sapiens (Primates)

b Biology of the trophoblast. Same species as a

c Early embryonic development. Mus musculus (Rodentia)

BINNS, R. M.; Ph.D., M.R.C.V.S. – Dept. of Immunol., A.R.C. Inst. of Anim. Physiol., Babraham, CAMBRIDGE CB2 4AT, England

a Developmental immunology and lymphoid cell physiology. Sus scrofa domesticus, Ovis aries (Artiodactyla)

BIRCH-ANDERSEN, A. – State Serum Inst., Amagerboulevard 80, 2300 COPENHAGEN S, Denmark

a Ultrastructure of normal and pathological sperm. Bos taurus (Artiodactyla) (with E. BLOM, State Vet. Serum Lab.)

BIRNSTIEL, M. L.; Dr.sci.nat., Prof. – Inst. für Molek.biol.II, Univ. Zürich, Winterthurerstr. 266A, 8057 ZÜRICH, Switzerland

a Characterization of ribosomal DNA. Xenopus laevis (Anura)

b Structure, expression, and regulation of histone coding sequences. Psammechinus miliaris, P. spec. (Echinoidea)

BISCONTE, J. C.; D.Sc. – Lab. de Neurobiol. et de Micr. Quant., C.H.U. de Bobigny, 74 rue M. Cachin, 93000 BOBIGNY, France

a Chronoarchitectonic studies of the central nervous system (radioautography) in Reeler and Staggerer mutants. Mus musculus (Rodentia)

b Quantitative and radioautographic studies of proliferation and organisation of cells of central nervous system cultured in vitro. Same species as a

c Quantitative microscopy, picture analysis and lateral mobility of embryonic nervous cell membrane receptors in vitro (central nervous system). Same species as a

BJERRE, B.; M.D. – Tornblad-Inst. for Comp. Embryol., Biskopsgatan 7, 223 62 LUND, Sweden

BLÄHSER, S.; Dr.vet. – Zentr. für Anat. und Cytobiol., Justus Liebig Univ., Aulweg 123, 6300 GIESSEN, B.R.D. (Germany)

a Development of calcitonin-immunoreactive C-cells in the thyroid (Mammalia) and the ultimobranchial body (Aves)

BLAIS, Ms. C. – Lab. de Zool., École Norm. Supérieure, 46 rue d'Ulm, 75230 PARIS Cedex 05, France

a Hormonal control of protein metabolism in wing imaginal discs. Pieris brassicae (Lepidoptera)

b Ultrastructural aspects of wing disc development. Same species as a

BLANCHET, J. P.; D.Sc. – Dépt. de Biol. Gén. et Appl., Univ. de Lyon I, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France

a Development of erythrocyte membrane antigens. Gallus domesticus (Aves)

BLANCHET, Ms. M. F. – Lab. Sex. et Reprod. des Invertébr., Univ. Paris VI (P. et M. Curie), Bât.A, 7e étage, 4 place Jussieu, 75230 PARIS Cedex 05, France

a Relations between vitellogenesis and intermolt. Orchestia gammarellus (Amphipoda, Crustacea)

b Ecdysone titers in whole female extracts, in ovary extracts, and in haemolymph (radioimmunoassay). Same species as a

BLECHSCHMIDT, E.; Dr.med., o.ö.Prof. (Emer.) – Anat. Inst. der Univ., Kreuzbergring 36, 34 GÖTTINGEN, B.R.D. (Germany)

BLOM, E.; Dr.med.vet. – State Vet. Serum Lab., Bülowsvej 27, 1870 COPENHAGEN V, Denmark

a Pathological conditions in testis, epididymis and accessory sex glands. Bos taurus (Artiodactyla)

b Ultrastructure of normal and pathological sperm. Same species as a (with A. BIRCH-ANDERSEN, State Serum Inst.)

c Hereditary sperm defects. Bos taurus, Sus scrofa domesticus (Artiodactyla)

BLUEMINK, J. G.; Ph.D. – Hubrecht Lab. (Intern. Embryol. Inst.), Uppsalalaan 8, 3584 CT UTRECHT, Netherlands

a Ultrastructural organisation of the plasma membrane and associated cytoplasmic elements: its role in early development. Xenopus laevis (Anura)

b Regulation of the cell cycle and its significance for development and differentiation: the role of

changes in membrane properties and structure, ion and cyclic nucleotide metabolism. Neuroblastoma cells, Mus musculus (Rodentia) (with S. W. de LAAT, P. T. van der SAAG, S. A. NELEMANS and W. H. MOOLENAAR)

BLUZAT, R. R.; D.Sc. – Lab. de Zool., Univ. de Paris XI (Paris-Sud), Centre d'Orsay, 91405 ORSAY, France

a Effects of insecticides, herbicides and detergents on development. Lymnaea spec. (Gastropoda) and other fresh water animals

BODE, H. J.; Dr.rer.nat. – Zool. Inst. der Univ., Im Neuenheimer Feld 230, 6900 HEIDELBERG 1, B.R.D. (Germany)

a Myogenesis; immunology of muscular proteins; in vitro translation. Drosophila melanogaster (Diptera)

BOELSTERLI, U.; Dipl.nat. – Zool.-Vergl. Anat. Inst., Univ. Zürich, Künstlergasse 16, 8006 ZÜRICH, Switzerland

BOER, G. J.; Dr. – Netherl. Inst. for Brain Res., IJdijk 28, AMSTERDAM, Netherlands

a Interaction with hormones during maturation and adaptation of the nervous system. Rattus norvegicus (Rodentia), Homo sapiens (Primates)

BOER, K.; Dr. – Netherl. Inst. for Brain Res., IJdijk 28, AMSTERDAM, Netherlands

a Interaction with hormones during maturation and adaptation of the nervous system. Rattus norvegicus (Rodentia), Homo sapiens (Primates)

BOGENMANN, E.; M.Sc. – Inst. of Cell Biol., Swiss Fed. Inst. of Technol., Hönggerberg, 8093 ZÜRICH, Switzerland

a Gene expression in somatic cell hybrids. Gallus domesticus (Aves), Rattus spec. (Rodentia)

BOHN, H.; Dr.rer.nat. – Zool. Inst. der Univ., Luisenst. 14, 8 MÜNCHEN 2, B.R.D. (Germany)

a Wound healing in vivo and in vitro. Leucophaea maderae (Blattodea)

BOILLY, B.; D.Sc., Prof. – Lab. de Morphol. Exp., Univ. des Sci. et Techn., B.P. 36, 59650 VILLENEUVE D'ASCQ, France

a Development of regeneration cells (dedifferentiation, activation, differentiation); determination of this development. (Annelida)

b Factors of regenerative morphogenesis, especially nervous system, tissular contacts. (Annelida)

BOLETZKY, S. von; Ph.D. – Lab. Arago, Univ. de Paris VI, 66650 BANYULS-sur-MER, France

a Embryonic and post-embryonic development. (Cephalopoda)

BOLOGNARI, A.; Prof. – Ist. di Zool. e di Anat. Comp., Univ. di Messina, Via dei Verdi 75, 98100 MESSINA, Italy

a Nature of initial and definitive yolk globules and modification of the yolk (structure, ultrastructure, cytochemistry). Aplysia depilans (Gastropoda)

b Differences between the primary nucleolus and the amphinucleoli in oocytes (autoradiography, ultrastructure and cytochemistry). Patella coerulea (Gastropoda)

c Structure, ultrastructure and autoradiography of nucleolini in oocytes. (Mollusca)

d Histochemical distribution of the enzymes of carbohydrate metabolism in the Golgi zones of yolk globules. Same species as a

BONARIC, J. C.; Dr.Spéc. – Lab. de Zool.II (Morphol. et Ecol.), Univ. des Sci. et Techn. du Languedoc, Place E.Bataillon, 34060 MONTPELLIER, France

a Ecophysiology of post-embryonic development. Pisaura mirabilis (Araneida, Arachnida)

BONDI, C.; Dott., Prof. – Ist. di Anat. Comp., Univ. di Perugia, via A. Pascoli, 06100 PERUGIA, Italy

a Magnetic field action on nervous system development. Rana esculenta, Bufo vulgaris (Anura)

b Action of antiandrogens on the ultrastructure of male genital organs. Cavia porcellus (Rodentia)

BONS, J.; D.Sc. – Lab. de Biogeogr. et Écol. des Vertébr., École Prat. des Hautes Études, place E. Bataillon, 34060 MONTPELLIER, France

a Embryonic development. Lacertidae, Agamidae (Lacertilia)

BONTEKOE, Ms. E. H. M.; Drs. - Dept. of Obstet. and Gynecol., Univ. of Amsterdam, Wilhelmina Gasthuis, 1e Helmerstr. 104, AMSTERDAM, Netherlands

a Psychogenous influences on uterine motility and on fetal development. Canis familiaris (Carnivora), Ovis aries, Sus scrofa (Artiodactyla), Oryctolagus cuniculus (Lagomorpha)

BOON (NIERMEYER), Ms. E. K.; M.Sc. – Zool.Lab., State Univ. of Utrecht, Transitorium III, Padualaan 8, UTRECHT, Netherlands

a Influence of protein synthesis inhibitors on the cell cycle. Lymnaea stagnalis (Gastropoda)

b Significance of early cleavage cycles and programmed division pattern; correlation of division anomalies and abnormal division chronology with specific morphogenetic disturbances. Same species as a

BOPP, M.; Dr.rer.nat., Prof. – Bot. Inst., Univ. Heidelberg, Hofmeisterweg 4, 69 HEIDELBERG, B.R.D. (Germany)

a Development; morphogenesis of protonema. Funaria hygrometrica (Musci)

b Shoot growth. Sinapis spec. (Cruciferae), Pisum sativum (Papilionaceae)

c Tissue culture; growth and differentiation under the action of herbicides. Nicotiana tabacum (Solanaceae), Anagallis arvensis (Primulaceae)

BOSQUET, G.; Dr.spéc. – Dépt. de Biol. Génér. et Appl., Univ. de Lyon I, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France

BOSSY, J. G. M.; M.D., Prof. – Dept. of Anat., Univ. of Montpellier, Section of Nîmes, av.Kennedy, 30000 NÎMES, France

a Development and maturation of the central nervous system in the fetus. Homo sapiens (Primates)

BOTERENBROOD, Ms. E. C.; Ph.D. – Hubrecht Lab. (Intern. Embryol. Inst.), Uppsalalaan 8, 3584 CT UTRECHT, Netherlands

a Analysis of dorso-ventral and cranio-caudal polarity in mesoderm induction. Ambystoma mexicanum (Urodela) (with P. D. NIEUWKOOP and K. HARA)

b Role of mesoderm induction in pattern formation. Same species as a, and Triturus alpestris (Urodela)

BOTH, N. J. de; Ph.D. – Pathol. Anat. II, Erasmus Univ., Dr. Molenwaterplein 40, ROTTERDAM, Netherlands

a Influence of Rauscher leukemia virus on blood formation. Mus musculus (Rodentia)

BOTTKE, W.; Dr.rer.nat. – Zool. Inst. der Univ., Lehrst. für Allgem. Zool., Badestr. 9, 44 MÜNSTER/Westf., B.R.D. (Germany)

a Oogenesis, especially the origin of yolk and the follicle cell-oocyte interactions (electron microscopy, autoradiography, electrophoresis). Planorbarius corneus, Lymnaea stagnalis, Bithynia tentaculata, Valvata piscinalis (Gastropoda)

b Chromosomal structure during endomitosis, mitosis and meiosis in the hermaphroditic gland (electron microscopy, autoradiography, cytophotometry). Planorbarius corneus, Lymnaea stagnalis (Gastropoda)

c Ferritin yolk. (Gastropoda)

BOTTON, B. – Lab. de Physiol. Végét., Univ. de Nancy I, C.O. 140, 54037 NANCY Cedex, France

a Morphogenesis of aggregated organs (coremia and rhizomorphs). Sphaerostilbe repens (Ascomycetes)

BOUCAUT, J. C.; D.Sc. – Lab. de Biol. Anim., Univ. Paris VI (P.et M. Curie), 4 place Jussieu, 75230 PARIS Cedex 05, France

a Expression of mosaicism in allophenic chimaeras. Pleurodeles waltl, Ambystoma mexicanum (Urodela)

b Cellular interactions in development

BOURSNELL, J. C.; Dr. – A.R.C. Unit of Reprod. Physiol.& Biochem., Anim. Res. Station, 307 Huntingdon Rd., CAMBRIDGE CB3 0JQ, England

BOURY ESNAULT, Ms. N. – Lab. de Biol. des Invert. Marins et Malacol., Museum Natl. d'Hist. Nat., 57 rue Cuvier, 75005 PARIS, France

a Regeneration and morphogenesis. (Porifera)

BOUTHIER, A. – Lab. de Zool., École Norm. Supér., 46 rue d'Ulm, 75230 PARIS Cedex 05, France

a Ommochrome metabolism during development in larvae and adults of normal and "albino" mutant strains. Locusta migratoria (Orthoptera)

b Hormonal control of pigmentation. Same species as a

BOUVET, J. L.; Dr.Spéc. – Lab. de Zool. et Biol. Anim., Univ. Sci. et Méd. de Grenoble, B.P. 53, Centre de Tri, 38041 GRENOBLE, France

a Cell proliferation in the pectoral fin bud; differentiation of the apical ectodermal ridge. Salmo trutta fario (Teleostei)

b Destruction of the egg shell by the peridermal cells which envelope the yolk mass (transmission and scanning electron microscopy). Same species as a

BOWNES, M.; D.Phil. – Dept. of Biol., Univ. of Essex, Wivenhoe Park, COLCHESTER CO4 3SQ, England

a Mutations altering the organisation of the embryo. Drosophila melanogaster (Diptera)

b Attempts to experimentally induce polarity reversals in embryos using techniques of centrifugation and UV irradiation. Same species as a

c Experiments on the mechanism of regeneration in imaginal discs. Same species as a

d Developmental effects of exposing embryos to ether vapour. Same species as a

BOZDZILOVSKAYA, V. P. – Inst. of Developm. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.

a Relative duration of development and normal table. Ambystoma mexicanum (Urodela)

BRACHET, J. L. A.; M.D., D.Sc., Prof. – Dept. of Molec. Biol., Free Univ. of Brussels, 67 rue des Chevaux, 1640 RHODE-ST-GENÈSE, Belgium

a Synthesis of DNA, RNA and protein, and energy production during maturation. Xenopus laevis (Anura)

b Concanavalin A binding to cell membranes during development. Same species as a

c Induction of maturation by organomercurials. Same species as a

d Role of ions and SH groups in the induction of maturation and in differentiation without cleavage. Chaetopterus spec. (Polychaeta)

e Role of polyamines in egg development (Echinoidea)

BRADAMANTE, Ž.; M.D. – Inst. of Histol. and Embryol., Fac. of Med., Univ. of Zagreb, P.O. Box 166, Šalata 3, 41001 ZAGREB, Yugoslavia

a Chondrogenesis in the external ear. Rattus norvegicus (Rodentia) (with A. ŠVAJGER and Lj. KOSTOVIĆ)

b Differentiation of the intercellular matrix during ontogenesis (histology, histochemistry, electron microscopy). Same species as a (with A. ŠVAJGER and Lj. KOSTOVIĆ)

BRAGT, J. van; Dr., Ir. – Dept. of Horticult., Agric. Univ., Haagsteeg 3, P.O. Box 30, WAGENINGEN, Netherlands

a Endogenous hormone levels and parthenocarpic fruit set. Pyrus spec., Malus spec. (Rosaceae)

b Endogenous cytokinins and regeneration of sprouts on leaf cuttings. ornamental spp. (Angiospermae)

BRAHMA, S. K.; D.Phil., Ph.D. – Dept. of Med. Anat. and Embryol., State Univ. of Utrecht, Janskerkhof 3A, UTRECHT, Netherlands

a Biosynthesis of soluble proteins in early development (isoelectric focusing, autoradiography). (Amphibia) (with P. T. v. d. SAAG, Hubrecht Lab.)

b Biosynthesis of soluble lens crystallins in early and late development (isoelectric focusing, autoradiography). Anas platyrhynchos (Aves) (with H. van der STARRE)

c Isoelectric focusing of some enzymes during lens development. Same species as b, and Gallus

domesticus (Aves) (with H. van der STARRE)
d Ontogeny and localisation of the gamma-crystallins (immunofluorescence). (Anura, Urodela) (with D. S. McDEVITT, Philadelphia)
BRAND, A.; Dr.Vet.Med., Ph.D. – Inst. of Vet. Obstet., Artif. Insem. and Reprod., State Univ., Yalelaan 7, UTRECHT, Netherlands
a Nonsurgical recovery, transplantation and storage of embryos. domestic species (Mammalia)
BRÄNDLE, K. A.; Dr.rer.nat., Prof. – Arb.gr. Neuro- und Rezeptorphysiol., Fachber. Biol. (Zool.) der Univ., Siesmayerstr. 70, 6000 FRANKFURT, B.R.D. (Germany)
a Rearing of isolated limb pairs together with different parts of the spinal cord in parabiosis with a host for study of movement coordination. Ambystoma mexicanum, Triturus spec. (Urodela)
b Rearing of isolated tandem heads in parabiosis with a host for study of nerve connections between doubled optic and vestibular sense organs and the central nervous system. Ambystoma mexicanum (Urodela), Xenopus laevis (Anura)
c Development of retinotectal connections (surgery); electrophysiological mapping of the optic projections. Same species as b
BRAUM, E.; Dr. – Inst. für Hydrobiol. und Fisch.wiss., Univ. Hamburg, Olbersweg 24, 2 HAMBURG Altona I, B.R.D. (Germany)
a The influence of temperature, oxygen pressure and water flow on eggs and larvae. Esox lucius, Coregonus spp. (Teleostei)
b The relation of external oxygen deficiency and embryogenesis. Clupea harengus (Teleostei)
BREATHNACH, A. S.; M.D., Prof. – Dept. of Anat., St. Mary's Hosp. Med. School, Paddington, LONDON W2 1PG, England
a Freeze-fracture replication of early blastoderm. Gallus domesticus (Aves)
b Transmission electron microscopy and freeze fracture of fetal skin. Homo sapiens (Primates)
BRENNER, S.; D.Phil. – Lab. of Molec. Biol., Med. Res. Counc., Hills Rd., CAMBRIDGE CB2 2QH, England
a Developmental genetics of the nervous system. Caenorhabditis elegans (Nematoda)
BREUGEL, F. M. A. van; Dr. – Genet. Lab., State Univ., Kaiserstr. 63, LEIDEN, Netherlands
a Differentiation in white-mottled and Notch mutants. Drosophila spec. (Diptera)
BRIARTY, L. G.; Ph.D. – Bot. Dept., Nottingham Univ., University Park, NOTTINGHAM NG7 2RD, England
BRICHOVÁ (MÜLLEROVÁ), Ms. H. M.; M.D. – Inst. of Embryol., Fac. of Med., Charles Univ., Albertov 4, 12800 PRAHA 2, Czechoslovakia
BRIDE, Ms. J.; Lic.ès Sci. – Lab. de Zool. et Embryol., Univ. de Besançon, Place Maréchal Leclerc, 25030 BESANÇON Cedex, France
a Développement embryonnaire de la glande uropygienne. Anas platyrhynchos (Aves) (avec L. GOMOT)
BRIDE (VUILLET), Ms. M.; D.Sc. – Lab. de Zool. et Embryol., Univ. de Besançon, Place Maréchal Leclerc, 25030 BESANÇON Cedex, France
a Le développement in vivo et in vitro du coeur. Rana temporaria, Xenopus laevis (Anura) (avec L. GOMOT)
BRIEGLEB, W.; Dr.rer.nat. – Inst. für Flugmedizin der DFVLR, Kölnerstr. 70, 53 BONN-Bad Godesberg, B.R.D. (Germany)
a Einfluss von Licht und hoher Temperatur auf die Ontogenese einer neotenen Art aus einem Höhlenbiotop. Proteus anguinus (Urodela)
b Teratogenic and genetic anomalies induced by simulated weightlessness (fast running clinostat). Tribolium confusum (Coleoptera) (with J. NEUBERT)
c Effect of simulated weightlessness on ultrastructure of the embryonic vestibular organ. (Anura) (with J. NEUBERT)
BRINKMANN, A. O.; M.D. – Lab. for Cell Biol. and Histol., State Univ., Rijnsburgerweg 10, LEIDEN, Netherlands
a Steroid production in testes during fetal development; sensitivity for luteinizing hormone (LH), chorionic gonadotropin (HCG), and the steroid biosynthesis inhibitor aminogluthetimide phosphate (AGP); relation with differentiation of genital ducts. Cavia porcellus (Rodentia)
BRØNDSTED, H. V.; Dr.Phil., Prof. (Emer.) – Stockholmsgade 23, 2100 COPENHAGEN Ø, Denmark
BROWAEYS, Ms. E. – Serv. de Biol. Anim., Univ., des Sci. et Techn. de Lille, B.P. 36, 59650 VILLENEUVE D'ASCQ, France
a Wing morphogenesis and regeneration (experimental study, ultrastructure). Sipyloidea sipylus (Phasmida)
BRUCE, L.; Fil.Kand. – Zoophysiol. Inst., Univ. of Lund, Helgonavägen 3, 223 62 LUND, Sweden
BRUEL, Ms. M. Th.; Dr.3e cycle – Lab. de Biol. Anim., Univ. de Clermont, B.P. 45, 63170 AUBIÈRE, France
a Effect of pesticides on embryonic germ cells. (Aves)
BRUGAL, G. J. Y.; D.Sc. – Lab. de Zool., Dépt. de Biol., Univ. Sci. et Méd. de Grenoble, B.P. 53, 38041 GRENOBLE, France
a Inhibitory substances (chalones) involved in the regulation of cell proliferation during embryonic development. Pleurodeles waltl (Urodela)
b Autoradiography and cytophotometry of the relations between proliferation and differentiation in embryonic cell populations. Same species as a
BRUIN, J. P. C. de; Drs. – Netherl. Inst. for Brain Res., IJdijk 28, AMSTERDAM, Netherlands
a Development and correctibility of behaviour. Rattus norvegicus (Rodentia)
BRUINSMA, J.; Dr., Prof. – Dept. of Plant Physiol., Agric. Univ., Arboretumlaan 4, WAGENINGEN, Netherlands
BRUN, B. – Inst. d'Embryol., Univ. de Strasbourg, 4 rue Kirschleger, 67085 STRASBOURG Cedex, France

a Intra-uterine growth retardation. Oryctolagus cuniculus (Lagomorpha)
b Ligation of uterine terminal vessels. Same species as a
c Cyclophosphamide teratogenesis. Same species as a, and Homo sapiens (Primates)
d Sperm motility. Same species as c

BRUN, J. L.; D.Sc., Prof. – Dépt. de Biol. Génér. et Appl., Univ. de Lyon I, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France

BRUNNERT, A. – Zool. Inst., Univ. Zürich, Künstlergasse 16, 8006 ZÜRICH, Switzerland

BRUSTIS, J. J.; Dr.biol.anim. – Lab. de Biol. Anim. A, Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE Cedex, France
a Étude descriptive et expérimentale de la formation et de la différenciation des somites. Rana dalmatina, Bufo bufo, Discoglossus pictus (Anura)
b Régénération de la queue au cours du développement précoce. Rana dalmatina, Bufo bufo (Anura)

BUCCI-INNOCENTI, Ms. S.; Dr.Biol. – Inst. of Histol. and Embryol., Univ. of Pisa, Via A.Volta 4, 56100 PISA, Italy
a Mitotic and lampbrush chromosomes in hybrids. Triturus spec. (Urodela)
b Electrophoretic studies in embryos and larvae. Same species as a

BUCKLEY, Ms. S. K. L.; Ph.D. – Marshall Lab., Dept. of Physiol., Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3EG, England
a In vitro development of post implantation embryos, role of extraembryonic factors (such as maternal hormones) in the regulation of development. Rattus spec. (Rodentia)
b Formation of eggs and role of gonadotropic hormone in their development. Octopus vulgaris (Cephalopoda)

BUEHR, M. L.; Ph.D. – MRC Mammalian Devl. Unit, Univ. Coll. London, Wolfson House, 4 Stephenson Way, LONDON NW1 2HE, England
a Regulation in the development of chimaeras. Mus musculus (Rodentia)
b In vitro culture of embryos. Same species as a
c Sex determination in normal and chimaeric animals. Same species as a

BUGGE, J.; Ph.D. – Dept. of Anat., Royal Dent. Coll., Vennelyst Bd., 8000 ÅRHUS C, Denmark
a Malformations of the vascular system of brain and head. Mus musculus, Rattus norvegicus (Rodentia) (with P. A. KNUDSEN)

BUGRILOVA, Ms. R. S.; Cand.biol. sci. – Phenogenet. Lab., Inst. of Gen. Genet., Acad. of Sci. of the USSR, Profsoyuznaya St. 7(I), MOSCOW 117312, U.S.S.R.
a Developmental study of mutant gene effects on skeletal developmental abnormalities in vitro. Mus musculus (Rodentia)

BUKULYA, B. – Inst. of Exper. Med., Morphol. Dept., Hung. Acad. of Sci., Szigony u.43, BUDAPEST 1083, Hungary
a Fine structure and hormonal activity of intact and cultured embryonic adrenal cells of different species. Rattus spec. (Rodentia), Homo sapiens (Primates)

BULLIÈRE, D.; D.Sc. – Lab. de Zool. et Biol. Anim., Univ. Sci. et Méd. de Grenoble, B.P. 53, Centre de Tri, 38041 GRENOBLE, France
a Cell determination in regenerating appendages; relations between regeneration, proliferation, and differentiation; genetic control of morphogenesis. Blabera craniifer (Blattodea)
b DNA-, RNA-, and cuticle component synthesis in epidermal cells of embryos. Same species as a

BULLIÈRE (CHALLANDE), Ms. F.; D.Sc. – Lab. de Zool. et Biol. Anim., Univ. Sci. et Méd. de Grenoble, B.P. 53, Centre de Tri, 38041 GRENOBLE, France
a Relation between differentiation and hormones in embryos cultured in vitro. Blabera craniifer (Blattodea)
b DNA, RNA, and cuticle component synthesis in epidermal cells of embryos. Same species as a
c Effect of ecdysteroids on embryonic leg regeneration in vitro. Same species as a

BULMER, D.; M.D., D.Sc., Prof. – Dept. of Human Morphol., Univ. of Southampton Med. Sch., Highfield, SOUTHAMPTON SO9 5NH, England
a Cell proliferation and differentiation in placenta and female genital system. Rattus spec. (Rodentia) (with S. PEEL)
b Immunology of pregnant uterus. (Rodentia) (with S. PEEL)

BULYZHENKOV, V. E.; Dr. – Lab. of Exp. Genet., Inst. of Med. Genet., Kashirskoye Chaussee 6a, 115478 MOSCOW, U.S.S.R.
a Temperature sensitivity of homoeotic and non-homoeotic mutants. Drosophila melanogaster (Diptera)
b Pleiotropy of homoeotic genes. Same species as a

BÜNING, J.; Dr.rer.nat. – Zool. Inst. der Univ., Lehrst. für Allgem. Zool., Badestr. 9, 44 MÜNSTER/Westf., B.R.D. (Germany)
a RNA synthesis in early development: analysis of nucleotide-pools, rate of RNA synthesis, characterization of RNA. Bruchidius obtectus (Coleoptera)

BURGER, Ms. E. H.; Dr. – Lab. for Cell Biol. and Histol., State Univ., Rijnsburgerweg 10, LEIDEN, Netherlands
a Influence of parathyroid extract on sulfate metabolism of developing cartilage in vitro. Mus musculus (Rodentia)
c Ultrastructural effect of parathyroid extract on maturing embryonic cartilage and cartilage calcification in tissue culture. Same species as a

BURGESS, A. M. C.; Ph.D. – Dept. of Anat., London Hosp. Med. Coll., Turner St., LONDON E. 1, England
a RNA synthesis in dedifferentiating and redifferentiating regenerating tissues. Xenopus laevis, Ambystoma spec. (Amphibia)

b Somite morphogenesis. Xenopus laevis (Anura)
c Myogenesis. Same species as b
d The teratogenic effects of altering cell adhesions during cell migration. Same species as b

BURGOYNE, P. S.; Ph.D. – Hormone Lab., Dept. of Obstet. and Gynecol., Univ. of Edinburgh, 23 Chalmers St., EDINBURGH EH3 9EW, Scotland, U.K.
a Role of sex chromosomes in germ cell differentiation. Mus musculus (Rodentia)
b Preimplantation development: 1. inner cell mass determination and trophoblast (trophectoderm) differentiation; 2. YO lethality. Same species as a

BURIGHEL, P.; Dr.biol. – Ist. di Biol. Anim., Univ. di Padova, Via Loredan 10, 35100 PADOVA, Italy
a Differentiation of digestive tract. Botryllus schlosseri and other spp. (Ascidiacea)
b Organogenesis. Botryllus schlosseri (Ascidiacea)
c Tissue involution during metamorphosis. (Ascidiacea)

BUSCH, L. C.; Dr.rer.nat. – Dept. of Anat., Rhein.-Westf. Techn. Hochschule, Melatener Str. 211, 51 AACHEN, B.R.D. (Germany)

BUTLER, S. R.; Ph.D. – Dept. of Anat., Med. School, Univ. of Birmingham, Edgbaston, BIRMINGHAM B15 2TJ, England
a Development of cerebral dominance: differentiation of hemispheric function in infants and children (electroencephalography). Homo sapiens (Primates)

BUZNIKOV, G. A.; Dr.biol.sci. – Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.
a The role of neurotransmitters (acetylcholine, serotonin, catecholamines) in early embryogenesis. Strongylocentrotus dröbachiensis, S. nudus, S. intermedius, Paracentrotus lividus, Arbacia lixula, Sphaerechinus granularis (Echinoidea) (with L. N. MARKOVA and N. A. TEPLITZ)
b Role of serotonin in intercellular connections during cleavage divisions. Scaphechinus mirabilis (Echinoidea) (with J. B. SHMUKLER)

BYCZKOWSKA (SMYK), Ms. W.; Dr. – Dept. of Comp. Anat., Jagellonian Univ., ul.Krupnicza 50, 30-060 KRAKÓW, Poland
a Cell size in development. Rana temporaria, R. arvalis (Anura)

BYSKOV-SJOLTE, Ms. A. G.; Ph.D. – Finsen Lab., Finsen Inst., 49 Strandboulevarden, 2100 COPENHAGEN Ø, Denmark
a Development and function of ovaries and rete ovarii; cell dynamics of atresia (electron microscopy, autoradiography). (Rodentia; Primates)
b Sex differentiation in vivo and in vitro. Same species as a

CABANIER, Ms. M. -J. – Dépt. d'Histol.-Embryol., Univ. de Paris XII, 6 rue du Gén. Sarrail, 94000 CRETEIL, France

CABROL, D.; M.D. – Lab. de Biol. de la Reprod., Univ. Paris VI (P. et M. Curie), Bât.A, 7e étage, 7 quai Saint-Bernard, 75230 PARIS Cedex 05, France
a Intrauterine foetal visualization

CADILHAC, J. C.; Prof. – Lab. de Pathol. Génér., Fac. de Méd., Bd. Henri IV, 34000 MONTPELLIER, France
a Maturation of monoaminergic systems in foetus (morphology, histofluorescence, tritiated thymidine, biochemistry, enzymology). Rattus spec. (Rodentia), Felis catus (Carnivora)

CALASTRINI, Ms. C. – Inst. of Histol. and Gen. Embryol., Univ. of Ferrara, Via Fossato di Mortara 64, 44100 FERRARA, Italy
a Epithelio-mesenchymal interactions in lung morphogenesis in vitro (ultrastructure). Gallus domesticus (Aves)
b Ultrastructure of embryonic membranes. Homo sapiens (Primates)

CALLEBAUT, M. E.; M.D. – Lab. of Anat. and Embryol., State Univ. Center, Groenenborgerlaan 171, 2020 ANTWERPEN, Belgium
a Early development. Gallus domesticus, Coturnix coturnix (Aves)
b 3H-uridine, 3H-thymidine, and l-leucine-3H incorporation in female germ cells. Coturnix c. japonica (Aves)
c Origin of ovarian somatic cells. Same species as a

CALVEZ, B.; Dr.spéc. – Dépt. de Biol. Gén. et Appl., Univ. de Lyon I, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France

CAMBAR, R.; Dr., Prof. – Lab. de Biol. Anim. A, Univ. de Bordeaux I, Av. des Facultés, 33405 TALENCE Cedex, France
a Étude descriptive et expérimentale de la morphogenèse du mésonéphros. Rana spec., Alytes spec., Discoglossus spec., Xenopus spec. (Anura)
b Ultrastructure du pronéphros et du mésonéphros. (Anura)
c Involution ou transformation de l'appareil excréteur pendant la métamorphose. (Anura)
d Rapports entre l'appareil génital et l'appareil excréteur. (Anura)
e Différenciation sexuelle. (Anura)
f Infrastructure des cellules germinales. (Anura)
g Étude expérimentale de la morphogenèse du tube digestif et des glandes annexes. (Anura)

CAMENZIND, R.; Dr.sc.nat. – Dept. of Zool., Swiss Fed. Inst. of Technol., Universitätstr. 2, 8006 ZÜRICH, Switzerland
a Morphology, physiology, and cytology of paedogenetic-bisexual reproduction cycle. Heteropeza pygmaea (= Oligarces paradoxus), Tekomyia populi, Mycophila speyeri, Miastor castaneae (Cecidomyiidae, Diptera)
b Chromosome elimination in early cleavage in females and regulation of chromosome number after meiosis in males (time-lapse cinematography and ultrastructure). Heteropeza pygmaea (Cecidomyiidae, Diptera)

c Sex determination; in vitro culture of ovaries; time-lapse cinematography. Same species as b
d Non-random chromosome segregation by monocentric spindles in spermatogenesis (time-lapse cinematography, ultrastructure). Mycophila speyeri (Cecidomyiidae, Diptera)

CAMOSSO, Ms. M. E.; Sc.D., Prof. – Inst. of Human Anat., Fac. of Med., Univ. of Bari, Policlinico, 70124 BARI, Italy
a Analysis of the morphogenesis of the wing. Gallus domesticus (Aves)
b Nerve patterns in experimentally duplicated limbs. Same species as a
c Vascular patterns of the spinal cord under normal and experimental conditions. Same species as a
d Vascular patterns in telencephalon and diencephalon. Same species as a

CAMPANELLA, Ms. C.; Dr. – Ist. di Istol. ed Embriol., Univ. di Napoli, Via Mezzocannone 8, 80134 NAPOLI, Italy

CAMPANTICO, E.; Dr. – Inst. of Histol. and Embryol., Univ. of Torino, Via Giolitti 34, 10123 TORINO, Italy
a Hypothalamic control of thyroid activity before metamorphosis (131I, chromatography, partial brain extirpation). Bufo bufo (Anura)

CAMPBELL, J. C.; Ph.D. – M.R.C. Epigenet. Res. Grp., Inst. of Anim. Genet., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JN, Scotland, U.K.
a Regulatory mechanisms in lens regeneration. Xenopus laevis (Anura)
b Effect of histidinaemia on ear development. Mus musculus (Rodentia)
c Synthesis, ontogeny, location and immunochemistry of lens proteins in normal animals and mutants. Gallus domesticus (Aves), Mus musculus (Rodentia) (with R. M. CLAYTON, D. E. S. TRUMAN, D. J. PRITCHARD (Edinburgh), and D. S. McDEVITT (Philadelphia))

CAMPBELL, Ms. M. T.; Ph.D. – Dept. of Biochem., Med. Sci. Inst., Univ. of Dundee, DUNDEE DD1 4HN, Scotland, U.K.
a Developmental changes in endocrinological factors and in detoxicating and carbohydrate-metabolising enzymes during the perinatal period. Mus musculus, Rattus spec., (Rodentia), Homo sapiens (Primates)
b Endocrinological xenobiotic and dietary factors affecting bilirubin conjugation in the neonate. Same species as a

CAMPELO BARCIA, Ms. E.; M.D. – Serv. Embriol. Exp., Dept. Anat., Alava Univ., VITORIA, Spain
a Development of the primary stages of the olfactory placode. Gallus domesticus (Aves)

CAMPOS-ORTEGA, J. A.; Dr., Prof. – Inst. für Biol. III der Univ., Schänzlestr. 9-11, 7800 FREIBURG, B.R.D. (Germany)
a Morphogenesis of compound eye and central nervous system (clonal analysis, histology). Drosophila melanogaster (Diptera)
b Organisation of the regenerating retino-tectal system. Carassius auratus (Teleostei)

CAÑADAS-VILLALTA, J. A.; M.D. – Lab. of Exp. Embryol., Dept. of Anat., Fac. of Med., Univ. of Sevilla, SEVILLA, Spain

CANTELL, C. E.; Ph.D. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden
a Larval development. (Heteronemertini, Nemertina)

CĂPĂLNĂSAN, I.; Biol. – Lab. of Embryol., Ctr. of Hyg. and Publ. Health, Bv. Mihai Viteazul 24, 1900 TIMIŞOARA, Rumania
a Role of normal and experimentally induced necrosis in teratogenesis. Gallus domesticus (Aves), Rattus norvegicus (Rodentia)
b Cytogenetics. Homo sapiens (Primates)

CAPDEVILLA, Ms. M. P.; Ph.D. – Sect. Devl. Genet., Inst. of Genet. CSIC, Ctr. of Molec. Biol., Univ. Autónoma de Madrid, Canto Blanco, MADRID 34, Spain
a Development and genetic analysis of phenocopies. Drosophila melanogaster (Diptera)

CAPPANNINI, M.; – Ist. e Lab. Antropol., Univ. di Camerino, Via Filippo Camerini 5, 62032 CAMERINO, Italy
a Chromosomal aberrations. (Mammalia)

CAPURON, A. P.; D.Sc., Prof. – Lab. d'Embryol., Univ. des Sci. et Techn. de Lille, B. P. 36, 59650 VILLENEUVE D'ASCQ, France
a Origine, migration et différenciation des cellules germinales primordiales (cultures embryonnaires). Pleurodeles waltl (Urodela)
b Induction et organogenèse de la bouche et des dents in vivo et in vitro. Même espèce comme a
c Caractéristiques electriques membranaires au cours des premiers stades du développement. Même espèce comme a

CARAVATTI, M.; M.Sc. – Inst. of Cell Biol., Swiss Fed. Inst. of Technol., Hönggerberg, 8093 ZURICH, Switzerland
a Synthesis and degradation of muscle proteins in myogenic cell cultures. Gallus domesticus (Aves)

CARINCI, P.; M.D., Prof. – Inst. of Histol. and Gen. Embryol., Univ. of Ferrara, Via Fossato di Mortara 64, 44100 FERRARA, Italy
a Biochemical and histochemical analysis of embryonic fluids (albumen, yolk, and serum). Gallus domesticus (Aves)
b Epithelio-mesenchymal interactions in lung and skin morphogenesis in vitro. Same species as a
c Induction of yolk protein synthesis in cultured embryonic liver cells. Same species as a

CARRÉ Ms. M. C.; D.E.S. – Lab. de Génét. Evolut. et de Biomét., C.N.R.S., 91190 GIF-sur-YVETTE, France

CARUSO, A.; B.Sc. – Inst. of Histol. and Gen. Embryol., Univ. of Ferrara, Via Fossato di Mortara 64, 44100 FERRARA, Italy
a Induction of yolk protein synthesis (phosvitin) in cultured embryonic liver cells. Gallus domesticus (Aves)

CASSAGNE-MÈJEAN, Ms. F.; D.Sc. – Lab. de Zool.II (Morphol. et Ecol.), Univ. des Sci. et Techn. du

Languedoc, place E. Bataillon, 34060 MONTPELLIER, France
a Embryonic and postembryonic development and metamorphosis. Arrenurus spec. (Hydrachnellae, Acarina, Arachnida)
CASTEL, J.; Dr.3ème cycle – Inst. de Biol. Marine, Univ. de Bordeaux I, 2 rue du Prof. Jolyet, 33120 ARCACHON, France
a Morphology of larval development; life cycle in relation with ecological conditions in the laboratory and in brackish waters. (Copepoda and other Entomostraca)
CAVALLIN (THOMAS), Ms. M.; D.Sc. – Lab. de Zool. Exp., Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE, France
a Germ line cell segregation and migration (ultrastructure). Carausius spec., Clitumnus spec. (Phasmida)
b Experiments on interactions between somatic and germinal cells during gonadogenesis. Same species as a
CAYROL, C.; Dr. – Lab. de Biol. Gén., Univ. Paul-Sabatier, 118 Rte de Narbonne, 31077 TOULOUSE Cedex, France
a Gene expression and gene dosage tested by enzyme activities in diploid and polyploid animals. (Urodela)
CAZAUX, Cl.; D.Sc. – Inst. de Biol. Marine, Univ. de Bordeaux I, 2 rue du Prof. Jolyet, 33120 ARCACHON, France
a Larval development from egg (artificial fertilization, rearing in the laboratory) and larval ecology in the area of the Bassin d'Arcachon. (Polychaeta)
CÉAS, M. P.; Dr.sci.nat. – Ist. di Anat. Comp., Univ. di Firenze, Via Romana 17, 50125 FIRENZE, Italy
a Interactions of 3-4 benzopyrene with membranes of spermatozoa and eggs. Xenopus spec. (Anura)
b Fertilization of normal and 3-4 benzopyrene treated eggs with 3-4 benzopyrene treated sperm. Paracentrotus lividus (Echinoidea)
CERIMELE, D.; M.D. – Dept. of Dermatol., Univ. of Pavia, Policlinico S. Matteo - P. le Golgi, 27100 PAVIA, Italy
a Development of the hair. Homo sapiens (Primates)
CHALLIER, J. C.; Dr. 3e Cycle – Lab. de Biol. de la Reprod., Univ. Paris VI (P.et M. Curie), Bât. A, 7ème étage, 7 quai Saint-Bernard, 75230 PARIS Cedex 05, France
a Placental transfer in vitro of anxiolytics, beta-mimetics, oxygen, hexoses, amino acids and water soluble substances of different molecular weight (perfusion in vitro). Homo sapiens (Primates)
CHALOUPKA, Z.; MUDr., CSc. – Inst. of Pathophysiol., Charles Univ., Lidická 1, 306 05 PLZEŇ, Czechoslovakia
a Effect of afferentiation in early postnatal life on the formation of temporary connections. Rattus norvegicus (Rodentia)
b Development of functional abilities of the auditory system. Rattus norvegicus (Rodentia)
CHALUMEAU, Ms. M. Th.; D.Sc. – Lab. de Biol. du Dével., C.H.U. de Bobigny, 74 rue M. Cachin, 93000 BOBIGNY, France
a Chronologie et topographie de l'apparition de protéines liées au métabolisme du fer (Tf, Hpx) par immunologie et immunocytologie; relations avec les cellules cibles. Pleurodeles waltl (Anura), Rattus spp., Homo sapiens (Mammalia)
b Enzymes présentant des formes multimoléculaires chez le foetus et le nouveau-né; évolution phylogénétique et ontogénétique; relations avec des dysfonctionnements. Rattus spp., Homo sapiens (Mammalia)
CHAMBOLLE, P.; D.Sc. – Lab. de Biol. Anim. A, Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE Cedex, France
a Expériments sur la gestation. Gambusia spec. (Teleostei)
b Contrôle hypothalamique de la fonction gonadotrope. Espèce comme a
CHANDEBOIS, Ms. R.; Dr., Prof. – Lab. de Morphogénét. Anim., Univ. de Provence – Centre St. Charles, Place Victor Hugo, 13331 MARSEILLE-Cedex 3, France
a Activity of the undifferentiated material in normal and regenerating animals (electron microscopy, tissue culture, irradiation). Dugesia subtentaculata, D. gonocephala (Turbellaria)
b Equilibria between the two cell types of the undifferentiated tissue and equilibria between this undifferentiated tissue and the differentiated cells. Same species as a
CHANDRA, N.; Ph.D. – Bot. Labs., Univ. of Leicester, Adrian Bldg., Univ. Rd., LEICESTER LE1 7RH, England
a Experimental somatic embryogenesis in plants and tissue cultures. (Spermatophyta)
CHANTURISHVILI, P. S.; Dr.biol.sci., Prof. – Dept. of Anim. Embryol., Inst. of Zool., Acad. of Sci. of the Georgian SSR, 31 Chavchavadze Ave., TBILISI 380030, U.S.S.R.
CHAPRON, C.; D.Sc. – Lab. de Zool. A, Inst. de Biol. Anim., Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE, France
a Interactions between nervous system, vascularisation and growth of regeneration blastema. (Oligochaeta; Urodela)
b Effect of nervous system on angiogenesis. (Mammalia)
CHARBONNÉ-GOETT, Ms. F. – Lab. d'Histol.-Embryol. Cytogénét., Fac. de Méd., Bd. Winston Churchill, B.P. 38, 63001 CLERMONT-FERRAND Cedex, France
a Morphogenesis and cytochemistry of perinatal and adult myocardium in cell culture; pharmacological study. Rattus spec. (Rodentia)
b Ultrastructure and cytochemistry of perinatal and adult hepatic cells in subculture. Same species as a

CHARLES, R.; Dr. – Anat.-Embryol. Inst., Univ. of Amsterdam, Mauritskade 61, AMSTERDAM-O., Netherlands
a Developmental changes in activity of liver carbamylphosphate synthetase. Ambystoma mexicanum (Urodela)
b Histones in early embryonic development. Xenopus laevis (Anura)

CHARNIAUX-COTTON, Ms. H.; D.Sc., Prof. – Lab. Sex. et Reprod. des Invertébr., Univ. Paris VI (P. et M. Curie), Bât. A, 7e étage, 4 place Jussieu, 75230 PARIS Cedex 05, France
a Electrophoresis and immunochemistry of a female protein: vitellogenin. Orchestia gammarellus (Amphipoda, Crustacea) (with Y. CROISILLE (Nogent), J. J. MEUSY and H. JUNERA)
b Description and control of oogenesis and maturation. Same species as a

CHÂTEAUREYNAUD-DUPRAT, Ms. P.; D.Sc. – Lab. de Zool. A, Inst. de Biol. Anim., Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE, France
a Immune reactions against embryos in pregnant females. Salamandra salamandra (Urodela), Rattus spec. (Rodentia)

CHAUVIN, G. R.; Dr.3ème cycle – Lab. de Biol. Anim. 1er Cycle, Univ. de Rennes, Av. du Gén. Leclerc, 35031 RENNES Cedex, France
a Anatomy and cytology of the genital tract and its glands; egg formation. Monopis spec., Galleria mellonella, Korscheltellus spec. (Lepidoptera)
b Anatomical and physiological patterns allowing larval development in dry conditions. Monopis spec., Tinea spec., Tineola spec. (Lepidoptera)

CHECIU, I.; Biol. – Lab. of Embryol., Ctr. of Hyg. and Publ. Health, Bv. Mihai Viteazul 24, 1900 TIMIŞOARA, Rumania
a Experimental teratology of the central nervous system. Gallus domesticus (Aves)
b Development of cerebral vesicles. Same species as a

CHECIU, Ms. M.; Biol. – Lab. of Embryol., Ctr. of Hyg. and Publ. Health, Bv. Mihai Viteazul 24, 1900 TIMIŞOARA, Rumania
a Experimental teratology; transfer of embryos. Mus musculus, Rattus norvegicus (Rodentia)

CHEN, P. S.; Dr.phil., Prof. – Zool.-Vergl. Anat. Inst., Univ. Zürich, Künstlergasse 16, 8006 ZÜRICH, Switzerland
a Paragonial substance, amino acids and peptides. Drosophila melanogaster, D. spec. (Diptera)

CHEVALLIER, A. D.; Dr.spéc. – Lab. de Zool., Dépt. de Biol., Univ. Sci. et Méd. de Grenoble, B.P. 53, 38041 GRENOBLE, France
a Development of axial skeleton, rib basket and girdles in homo- and xenoplastic transplantation experiments. Gallus domesticus, Coturnix c. japonica (Aves)

CHEVREAU, J. P.; Dr. Méd., Prof. – Dépt. d'Histol.-Embryol., Univ. de Paris XII, 6 rue du Gén.Sarrail, 94000 CRÉTEIL, France

CHIBON, P.; D.Sc., Prof. – Lab. de Zool. et Biol. Anim., Univ. Sci. et Méd. de Grenoble, B.P. 53, Centre de Tri, 38041 GRENOBLE, France
a Nuclear labelling of embryonic cells (autoradiography). Pleurodeles waltlii, Triturus alpestris (Urodela)
b Morphogenetic abilities and differentiation of neural crest cells. Same species as a
c Origin and differentiation of teeth. Rana spec., Bufo spec. (Anura), Pleurodeles waltlii (Urodela)
d Cellular proliferation in the embryo: kinetics and differentiation. Pleurodeles waltlii (Urodela)

CHIEFFI, G.; M.D., Prof. – Ist. e Museo di Zool., Univ. di Napoli, Via Mezzocannone 8, 80134 NAPOLI, Italy

CHIQUET, M.; M.Sc. – Inst. of Cell Biol., Swiss Fed. Inst. of Technol., Hönggerberg, 8093 ZÜRICH, Switzerland
a Surface changes during muscle cell differentiation. Gallus domesticus (Aves)

CHMILEVSKY, D. A.; Cand.biol.sci. – Lab. of Exp. Ichthyol., Biol. Inst., Leningrad State Univ., Stary Peterhof, LENINGRAD 198904, U.S.S.R.
a Effect of X-irradiation on gametogenesis. (Chondrostei; Teleostei)

CHOFFEL, Ms. C. – Lab. d'Embryol., Univ. de Nancy I, B.P. 1080, 54019 NANCY Cedex, France
a Développement de la langue et du larynx. Homo sapiens (Primates) (avec A. DOLLANDER et R. SEMBA (Japan))

CHOROSZEWSKA-LELICIŃSKA, Ms. A.; Dr.biol. – Lab. of Exp. Embryol., Inst. of Obstet. and Gynecol., Med. Acad., Karowa 2, 00-315 WARSZAWA, Poland
a Effect of different proportions of amino acids in maternal blood and of single amino acid excess on the embryo. Rattus spec. (Rodentia)
b Analysis of kininogenetic substances (kallikrein, kininogen, kininase, biologically active polypeptides) in endometrial secretions. Same species as a

CHOURAQUI, Ms. J. – Lab. de Zool. et d'Embryol. Exp., Univ. Louis-Pasteur, 12 rue de l'Université, 67000 STRASBOURG, France
a The role of the hypophysis in hormonal activity of embryonic gonads. Gallus domesticus, Anas platyrhynchos (Aves), Mus musculus, Rattus spec. (Rodentia), Oryctolagus cuniculus (Lagomorpha)

CHRIST, B.; Dr.med., Prof. – Lehrst. für Anat.I, Ruhr-Univ., Universitätsstr. 150, Postfach 102148, 4630 BOCHUM, B.R.D. (Germany)
a Differentiation of somites, Gallus domesticus, Coturnix c. japonica (Aves)
b Ultrastructure of connective tissue differentiation. Gallus domesticus (Aves)
c Scanning and transmission electron microscopy of prelaying stages. Same species as a
d Origin and development of musculature. Same species as a
e Development of the embryonic kidney. Same species as a, and Homo sapiens (Primates)
f Migration of embryonic cells. Same species as b

CHRONWALL, B.; Fil.mag. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden
a Development of inhibitory neurons in the neocortex. Rattus spec. (Rodentia)
CHULITZKAYA, E. V. – Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.
a Regularities of the oocyte maturation process. (Acipenseridae, Chondrostei; Amphibia) (with T. A. DETTLAFF, P. E. FEULGENGAUER and A. S. STEPANOV)
ČIHÁK, R.; MUDr., D.Sc., Prof. – Dept.of Anat., Charles Univ., U nemocnice 3, 12800 PRAHA 2, Czechoslovakia
a Prenatal development of muscles. Homo sapiens (Primates)
b Prenatal development of extremities (Vertebrata)
CIONINI, P. G.; Dr. – Ist. di Genet. della Univ., Via Matteotti 1/A, 56100 PISA, Italy
a Physiology and molecular biology of embryogenesis, especially polytene chromosomes in the embryo suspensor cells. Phaseolus coccineus (Papilionaceae)
CIOPPETTINI, Ms. M. CONTI; Dr.rer.nat. – Lab. Antropol., Univ. di Camerino, Via Filippo Camerini 5, 62032 CAMERINO, Italy
CLAIRAMBAULT, P.; D.Sc. – Équipe de Neuroembryol., Lab. d'Anat. Comp., Univ. Paris VII, 2 place Jussieu, 75221 PARIS Cedex 05, France
a Morphogenesis of primary and secondary optic centres and pathways. (Teleostei; Crossopterygii; Amphibia; Aves; Mammalia)
CLAVERT, A. J. J.; Dr.méd. – Inst. d'Embryol., Univ. de Strasbourg, 4 rue Kirschleger, 67085 STRASBOURG Cedex, France
a Eye development and lens differentiation. Oryctolagus cuniculus (Lagomorpha)
b Teratogenic effect of glucose injection into the amniotic cavity. Same species as a
CLAVERT, J. M. J.; D.Sc., Prof. – Inst. d'Embryol., Univ. de Strasbourg, 4 rue Kirschleger, 67085 STRASBOURG Cedex, France
a Le déterminisme de la symétrie bilatérale. Gallus domesticus, Anas platyrhynchos (Aves)
b Chimiotératogenèse (venoms). Mus musculus (Rodentia), Oryctolagus cuniculus (Lagomorpha)
CLAYTON (FREEDMAN), Ms. R. M.; M.A. – Inst. of Anim. Genet., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JN, Scotland, U.K.
a Properties of lens mRNAs; regulation of stability. Gallus domesticus (Aves) (with D. E. S. TRUMAN, J. JACKSON, I. THOMSON (Edinburgh), and R. WILLIAMSON (London)
b Synthesis, ontogeny, location, and immunochemistry of lens proteins in normal animals and mutants. Gallus domesticus (Aves), Mus musculus (Rodentia) (with D. E. S. TRUMAN, D. J. PRITCHARD, J. C. CAMPBELL (Edinburgh), and D. S. Mc. DEVITT (Philadelphia))
c Ultrastructure, immunology, and cell properties of lenses with normal and genetically modified cell membranes. Same species as b (with D. J. PRITCHARD and D. I. de POMERAI)
d Standardisation of lens antibodies. Many species (with all lens immunochemists willing to collaborate)
e Differentiation and cell interactions in vitro of normal and abnormal ocular epithelium. Same species as b (with D. J. PRITCHARD and D. I. de POMERAI)
f In vitro analysis of transdifferentiation of neural and pigmented retina. Same species as a (with D. J. PRITCHARD and D. I. de POMERAI)
g In vitro analysis of teratogens (with D. J. PRITCHARD and D. I. de POMERAI)
CLEGG, E. J.; M.D., Ph.D., Prof. – Dept. of Anat., Marischal Coll., Univ. of Aberdeen, ABERDEEN AB9 1AS, Scotland, U.K.
a Effect of hypoxia on preimplantation stages. Mus musculus (Rodentia)
CLEMEN, G.; Dr. – Lehrstuhl für spez. Zool., Zool. Inst. der Univ., Hüfferstr. 1, 4400 MÜNSTER, B.R.D. (Germany)
a Light and scanning electron microscopy of the teeth in the upper jaw and the palate of the larval, neotene, and metamorphosed Ambystoma mexicanum (Urodela)
b Ultrastructural changes of the skin of metamorphosed animals transplanted in larvae. Salamandra salamandra (Urodela)
CLOTHIER, R. H.; Ph.D. – Dept. of Hum. Morphol., Med. School, Univ. of Nottingham, Clifton Blvd., NOTTINGHAM NG7 2UH, England
a Neoplasms. Xenopus laevis (Anura), Triturus cristatus (Urodela)
b Development of the immune response and role of thymus. Xenopus laevis (Anura)
CLOWES, F. A. L.; D.Phil., D.Sc. – Botany School, Oxford Univ., South Parks Rd., OXFORD OX1 3RA, England
a Organisation of meristems, especially origin of diversity in mitotic cycles. Zea mays (Gramineae)
COBOS CARBO, P. – Dept. of Anat., Univ. of Barcelona, C/.Casanova 143, BARCELONA 11, Spain
a Embryology of caecum and vermiform appendix (organ culture). Rattus spec. (Rodentia), Oryctolagus cuniculus (Lagomorpha)
COCHARD, P.; Dr.spéc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Experiments on the differentiation of the parasympathetic enteric ganglia, especially tissue interactions. Gallus gallus, Coturnix c. japonica (Aves)
b Retrograde influence of the target organs innervated by sympathetic ganglia on the development of presynaptic cholinergic terminals. Mus musculus (Rodentia)
COCK, A. W. A. M. de; Drs. – Dept. of Bot., Sect. Molec. Developm. Biol., Cathol. Univ., Toernooiveld, NIJMEGEN, Netherlands
a Sexual reproduction. Zostera marina, Z. noltii (Najadaceae)
COCKROFT, D. L.; Ph.D. – Marshall Lab., Dept. of Physiol., Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3EG, England
a Teratogenic effects of elevated levels of glucose on head fold embryos in culture, and the

mechanisms by which these effects are produced. Rattus spec. (Rodentia)
b Effects of steroid hormones on embryos in culture. Same species as a

COGNETTI, G.; Dott.Chim. – Ist. di Anat. Comp., Univ. di Palermo, Via Archirafi 20, 90123 PALERMO, Italy
a Histones and other nuclear proteins in oocytes and during embryology. Paracentrotus lividus (Echinoidea)
b Chromatin structure in embryos. Same species as a
c Microtubule proteins in oocytes. Same species as a

COHEN, Jack; Ph.D. – Dept. of Zool. and Comp. Physiol., Univ. of Birmingham, P.O.Box 363, BIRMINGHAM B15 2TT, England

COLARD, C. – Lab. de Zool. et Embryol., Univ. de Besançon, place Maréchal Leclerc, 25030 BESANÇON Cedex, France
a Organogenèse de la glande mammaire (culture in vitro). Mus musculus (Rodentia), Oryctolagus cuniculus (Lagomorpha) (avec L. GOMOT et A. BIETRY)

COLENBRANDER, B.; D.V.M. – Vet. Anat. and Embryol. Inst., State Univ. of Utrecht, Bekkerstraat 141, UTRECHT, Netherlands
a Endocrinology of sexual differentiation. Sus scrofa domesticus (Artiodactyla)
b Development of accessory sex glands in freemartins and normal animals. Same species as a

COLLENOT, A.; Dr.Vét., Dr.Sci., Prof. – Lab. d'Embryol. Exp., Centre de Rech. du CNRS, 67 rue Maurice Günsbourg, 94200 IVRY sur SEINE, France
a Analyse expérimentale des mécanismes de la différenciation sexuelle des gonades. (Amphibia)
b L'expression des gènes léthaux ulcère et léthal mitotique. Pleurodeles waltl (Urodela)

COLLIN, J. P.; D.Sc., Prof. – Lab. de Zool. et de Biol. Cell., U.E.R. Sci. Fond. et Appl., Bât.C-1, 40 av. du Recteur Pineau, 86022 POITIERS, France
a Development of the pineal gland (electron microscopy). (Cyclostomata; Reptilia; Aves; Mammalia)
b Embryogenesis and phylogenesis of the pineal gland. (Aves; Mammalia)
c Proteins in the embryonic pineal gland (autoradiography and electron microscopy). Same species as b
d Indolamines and catecholamines in the embryonic pineal gland. Same species as b

CÖLLN, K.; Dr.rer.nat. – Zool. Inst. der Univ., Weyertal 119, 5000 KÖLN 41, B.R.D. (Germany)
a Isolation and characterization of pigment granules from compound eyes. Ephestia kühniella (Lepidoptera)
b Tryptophan metabolism during development. Same species as a

COLOMBERA, D. – Ist. di Biol. Anim., Univ. di Padova, Via Loredan 10, 35100 PADOVA, Italy
a Comparative oogenesis and spermatogenesis. Marine species (Deuterostomata)

COLOMBO, L.; Dr.biol. – Ist. di Biol. Anim., Univ. di Padova, Via Loredan 10, 35100 PADOVA, Italy
a Possible cooperational steroidogenesis between corpus luteum and placenta in estrogen synthesis and in pregnancy maintenance. Rattus spec. (Rodentia)
b Role of progestogens and 11-deoxycorticosteroids in oocyte maturation and ovulation. Gobius jozo (Teleostei)
c Role of progesterone and human chorionic gonadotropin in the induction of oocyte maturation in vitro. Rana esculenta, R. dalmatina (Anura)
d Shift from synthesis of estrogen to 11-deoxycorticosteroid after vitellogenesis and before maturation. Dicentrarchus labrax (Serranidae, Teleostei)

COMOGLIO, P. M.; M.D., Assoc.Prof. – Cell and Molec. Biol. Lab., Dept. of Human Anat., Univ. of Torino, Corso M.d'Azeglio 52, 10126 TORINO, Italy
a Cell membrane differentiation: immunochemistry of surface macromolecules. Mus musculus (Rodentia)
b Membrane-mediated growth control in BHK (baby hamster kidney) cells. Mesocricetus auratus (Rodentia)

CONTINI, Ms. A.; Dr. – Inst. of Zool. and Comp. Anat., Univ. of Messina, Via dei Verdi 75, 98100 MESSINA, Italy

CORNEC, J. P.; Dr.spéc. – Lab. de Morphogénét. Anim., Univ. de Provence - Centre St.Charles, Place Victor Hugo, 13331 MARSEILLE-Cedex 3, France

CORNER, M. A.; Ph.D. – Netherl. Inst. for Brain Res., IJdijk 28, AMSTERDAM, Netherlands
a Interaction of nerve cells and behaviour during maturation of the nervous system. Discoglossus pictus, Rana esculenta (Anura), Rattus norvegicus (Rodentia)
b Role of neural function in early development of the central nervous system in vivo and in vitro (electrophysiology and neurohistology). Rattus norvegicus (Rodentia)
c Structural basis of spontaneous neural activity in early development. Same species as b

CORUJO ANTELO, Ms. A.; Dr.nat.sci., Dr.biol.sci. – Ist. di Zool. "Federico Raffaele", Viale dell'Università 32, 00161 ROMA (7), Italy
– General Mola 88, MADRID 6, Spain

COULOMB (GAY), Ms. R.; Lic.ès Sci. – Lab. de Morphogénét. Anim., Univ. de Provence - Centre St.Charles, Place Victor Hugo, 13331 MARSEILLE-Cedex 3, France

COULON, Ms. J. – Lab. d'Histol. et Morphogen. Anim., Dépt. de Biol., Centre Univ. de Marseille-Luminy, 70 rte Léon Lachamp, 13288 MARSEILLE Cedex 2, France
a Role of biogenic amines and cyclic nucleotides in regeneration (biochemistry; cytochemistry). Owenia fusiformis (Polychaeta)

CRAČIUN, Ms. O.; L.Sc. – Chaire de Biol.-Histol., Inst. de Med. et Pharm., Str. Republicii No. 48, 3400 CLUJ-Napoca, Rumania
a Corrélation entre le foie en régénération et autres organes (surrénale, testicule). Rattus spec. (Rodentia)

CRIPPA, M.; M.D., Prof. – Lab. d'Embryol. Molec., Dépt. de Biol. Anim., Univ. de Genève, 154 route de Malagnou, 1224 CHÊNE BOUGERIES (Genève), Switzerland
a Control of transcription. Xenopus laevis (Anura)
CRNEK, Ms. V.; M.Sc. – Inst. of Biol., Fac. of Med., Univ. of Zagreb, Šalata 3, P.O.Box 166, 41001 ZAGREB, Yugoslavia
a Early differentiation (transplantation, in vitro culture). Rattus norvegicus (Rodentia) (with N. ŠKREB)
b Differentiation of early postimplantation stages under the kidney capsule, teratocarcinogenesis, nature of embryonal carcinoma cells; transplantation, electron microscopy. Mus musculus, Rattus norvegicus (Rodentia) (with N. ŠKREB)
CROES, A. F.; Dr. – Dept. of Bot., Sect. Molec. Developm. Biol., Cathol. Univ., Toernooiveld, NIJMEGEN, Netherlands
a Induction of meiosis. Saccharomyces cerevisiae (Ascomycetes)
CROISILLE, Y.; Dr. – Inst. d'Embryol. du C.N.R.S. et du Collège de France, 49bis av.de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Developmental, kinetic and immunochemical studies of enzymes (lactic dehydrogenases, hypoxanthine dehydrogenase, esterases) in different tissues. Gallus gallus (Aves)
b Arylsulphatases in the liver. Same species as a (with B. FEDECKA-BRUNER)
c Organogenesis of the kidney. Same species as a (with M. GUMPEL-PINOT)
d Involution of the mesonephros and differentiation of the epididymis (immunohistology). Same species as a (with M. GUMPEL-PINOT and J. M. GASC)
e Purification and characterization of a female-specific (vitellogenic) protein fraction. Orchestia gammarellus (Amphipoda) (with J. J. MEUSY, H. JUNERA and H. CHARNIAUX-COTTON (Paris))
CSABA, G.; M.D., D.Sc., Prof. – Dept. of Biol., Semmelweis Univ. of Med., P.O.B. 95, 1450 BUDAPEST, Hungary
a Experimental and physiological embryology; teratogenesis. Rattus rattus (Rodentia)
b Developmental genetics. (Protozoa), Dugesia lugubris (Turbellaria), Rattus rattus (Rodentia)
c Molecular biology of mast cell formation. Same species as a
CSILLIK, B.; M.D., Prof. – Dept. of Anat., Univ. Med. Sch., Kossuth Lajos út 40, P.O.Box 512, 6701 SZEGED, Hungary
a Developmental histochemistry and electron microscopy of the autonomic ground plexus. Rattus rattus (Rodentia) (with E. KNYIHÁR, M. GAJÓ and G. KÁLMÁN)
CUDENNEC, C. A.; Dr.spéc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Hemopoiesis in teratocarcinoma cultured in vitro, and analogy with normal development. Mus musculus (Rodentia)
b Potentiality of embryonic cells to recognise homologous tissue in vivo
CULLEN, M. J.; D.Phil. – Musc. Dystrophy Res. Labs., Newcastle Gen. Hosp., NEWCASTLE-on-Tyne NE4 6BE, England
a Electron microscopy of muscle regeneration after application of tiger snake (Notechis) venom. Rattus norvegicus (Rodentia)
b Cell death in presumptive dystrophic and normal foetal muscle. Homo sapiens (Primates)
c Myofibril and myofilament assembly in foetal muscle (Mammalia)
CUMINGE, Ms. D.; D.Sc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Organogenèse sexuelle précoce de l'embryon. Gallus gallus (Aves) (with R. DUBOIS)
b Biosynthèse glycoprotéique dans les ébauches gonadiques (topochimie, cinétique). Même espèce comme a
c Effets des lectines sur l'amiboïdisme des cellules germinales. Même espèce comme a
CURTIS, A. S. G.; Ph.D., Prof. – Dept. of Cell Biol., Univ. of Glasgow, GLASGOW G11 6NU, Scotland, U.K.
a Structure and physical chemistry of embryonic cell surfaces. Gallus domesticus, Coturnix spp. (Aves)
b Segregation mechanisms in reaggregates of embryonic cells. Same species as a
c Adhesion mechanisms in embryonic cells. Ephydatia fluviatilis (Porifera), Gallus domesticus, Coturnix spp. (Aves) and others
d Cell positioning in embryogenesis: lymphocytes, somite formation. Gallus domesticus (Aves)
CUSIMANO (CAROLLO), Ms. T.; D.Sc., Prof. – Ist. di Zool., Univ. di Palermo, Via Archirafi 18, 90123 PALERMO, Italy
a The causal development of the mouth. Discoglossus pictus (Anura)
b Hybrid fertilization after aging of eggs. Ascidia malaca, Ascidiella aspersa (Ascidiacea)
c Heterospecific fertilization of abdominal eggs. Same species as a
CZAPIK, Ms. R.; Dr.hab. – Dept. of Plant Cytol. and Embryol., Inst. of Bot., Jagellonian Univ., Grodzka 52, 31-044 KRAKÓW, Poland
CZAPSKA (DZIEKANOWSKA), Ms. D.; Ph.D. – Dept. of Gen. Biol., Inst. of Biol. and Morphol., Silesian Acad. of Med., ul.K.Marksa 19, 41-808 ZABRZE, Poland
a Cytogenetics of congenital malformations. Homo sapiens (Primates)
CZIHAK, G.; D.Phil., Prof. – Lehrkanzel für Genet. und Entw.biol. der Univ. Salzburg, Porsche Str. 8, 5020 SALZBURG, Austria
a Molecular biology of early development. Paracentrotus lividus, Psammechinus miliaris (Echinoidea)
b Polarity of the egg and cleavage pattern. Same species as a
c Parthenogenetic activation of development. (Echinoidea; Teleostei)

CZOŁOWSKA, Ms. R. K.; Dr. – Dept. of Embryol., Zool. Inst., Univ. of Warsaw, Krak. Przedmieście 26/28, 00-927 WARSZAWA, Poland
a Preimplantation development in vivo and in vitro. Mus musculus (Rodentia)

DABAGIAN (ERAMICHEVA), Ms. N. V.; Cand.biol. – Chair of Embryol., Biol. Fac., State Univ. of Moscow, Lenin Hills, MOSCOW 117234, U.S.S.R.
a Autoradiography of cell populations in regencration of the retina. Rana temporaria (Anura)
b Development of the ciliary body (scanning and transmission electron microscopy). Same species as a, and Rattus spec. (Rodentia)

DAGUERRE de HUREAUX (PIGEAULT), Ms. N.; D.Sc. – Lab. de Zool. Exp., Univ. de Bordeaux I, Av. des Facultés, 33405 TALENCE, France
a Embryology. Sphaeroma spec. (Isopoda, Crustacea) (With M. LASSÈGUES)
b Embryonic development of brain and cephalic glands. Same species as a

DAMERON, Ms. F.; D.Sc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Morphogenèse du poumon: 1. déterminisme de la maturation des structures spécifiques de l'épithelium (ultrastructure); 2. évolution du métabolisme du tissu pulmonaire (biosynthèse des lipides, activité enzymatique). Gallus gallus (Aves), Rattus spec. (Rodentia) (avec L. MARIN)

DAMJANOV, I.; M.D., D.Sc. – Inst. of Pathol., Fac. of Med., Univ. of Zagreb, Salata 10, P.O.Box 936, 41001 ZAGREB, Yugoslavia

DANIELI, G. A.; Dr.biol. – Ist. di Biol. Anim., Univ. di Padova, Via Loredan 10, 35100 PADOVA, Italy
a Differentiation of salivary glands during larval development. Drosophila hydei (Diptera)

DANILOVA, L. V. – Lab. of Devl. Cytogenet., Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.

D'ANNA, T.; Dr.nat.sci. – Zool. Inst., Univ. of Palermo, Via Archirafi 18, 90123 PALERMO, Italy
a Enzyme activity in embryonic development. (Ascidiacea)
b Respiratory metabolism during embryonic development. (Ascidiacea)
c Ultrastructure of dermal chromatophores. Discoglossus pictus (Anura)
d Glycogen in growing oocytes and developing eggs. (Ascidiacea)

DARNBROUGH, C. H.; Ph.D. – Dept. of Molec. Biol., Univ. of Edinburgh, King's Bldgs., Mayfield Rd., EDINBURGH EH9 3JR, Scotland, U.K.
a Control of protein and nucleic acid synthesis during oogenesis and embryogenesis, especially mRNA, poly(A) processing. Xenopus laevis (Anura)

DAVID (BÖGLI), Ms. D.; D.Sc. – Lab. de Biol. Anim., Univ. de Clermont, B.P.45, 63170 AUBIÈRE, France
a Action du DDT sur le développement de l'embryon; analyse des résidus. (Aves)

DAVIDOVA, S. I. – Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St.26, MOSCOW 117334, U.S.S.R.
a Influence of environmental conditions and thyroxine on the reaction of the follicle to hormones. (Acipenseridae, Chondrostei) (with T. A. DETTLAFF)

DAWES, C. M.; Ph.D. – Dept. of Physiol., Royal Vet. Coll., Royal College St., LONDON NW1 0TU, England
a Respiration and acid-base regulation. Gallus domesticus (Aves)
b The physiological basis of hatching. Same species as a

DECROLY (BRIERS), Ms. M.; D.Sc.Chim. – Dept. of Molec. Biol., Free Univ. of Brussels, 67 rue des Chevaux, 1640 RHODE-St-GENÈSE, Belgium
a Rôle eventuel des lysosomes dans l'utilisation du vitellus au cours du développement embryonnaire. (Amphibia)

DEGENHARDT, K.-H.; Dr.med., Prof. – Inst. für Humangenet. der Univ., Paul-Ehrlich St. 41, 6 FRANKFURT/Main 70, B.R.D. (Germany)
a Environmental influences on chromosomal mosaicism; correlations between chromosomal aberrations and special malformations. Mus musculus (Rodentia)

DELARUE, M.; Dr.3e Cycle – Lab. d'Immunol., Univ. Paris VI, 4 place Jussieu, 75230 PARIS Cedex 05, France
a Nuclear and cytoplasmic transplantation. Bufonidae (Anura)

DELAY, B. – Lab. Souterrain, Centre Natl. Rech. Scient., 09410 MOULIS, France
a Influence des facteurs abiotiques (température) sur le développement embryonnaire des espèces souterraines. Bathysciola spec., Speonomus spec., Antrocharis spec. (Coleoptera)
b Influence des facteurs abiotiques sur la reproduction. Speonomus longicornis (Bathysciinae, Coleoptera)

DELEANU, M.; Dr.med. – Lab. of Embryol., Ctr. of Hyg. and Publ. Health, Bv. Mihai Viteazul 24, 1900 TIMIŞOARA, Rumania
a Tissue culture; embryo culture. Gallus domesticus (Aves)

DE LEO, G.; Dr.nat.sci. – Ist. di Zool., Univ. di Palermo, Via Archirafi 18, 90123 PALERMO, Italy
a Embryonic development. Sepiola rondeletii (Cephalopoda)
b Ultrastructure of eggs. Sabellaria spec., Hydroides norvegica (Polychaeta), Bolina spec. (Ctenophora)
c Ultrastructure of the oocyte. Amphioxus lanceolatus (Cephalochordata)
d Characterization of mitochondrial DNA of unfertilized, fertilized, and cleaving egg. Ciona intestinalis (Ascidiacea)

DELLA CROCE, N.; Dr.nat.sci., Prof. – Ist. di Zool., Univ. di Genova, Via Balbi 5, 16126 GENOVA, Italy
a Embryonic development of a parthenogenetic marine form. Penilia avirostris (Cladocera, Crustacea) (with S. BETTANIN)

b Growth of the embryo. Same species as a (with S. BETTANIN)
c Formation of resting eggs. Same species as a (with S. BETTANIN)

DE MATTHAEIS, Ms. E.; Dr.biol.sci. – Ist. di Zool. "F. Raffaele", Univ. di Roma, Viale dell'Università 32, 00161 ROMA, Italy

DENIS, H. A.; Dr.ès Sci. – Centre de Génét. Moléc. du CNRS, 91190 GIF-sur-YVETTE, France
a Mécanismes biochimiques de l'oogenèse. Xenopus laevis (Anura)

DENKER, H.-W.; Dr.rer.nat., Dr.med. – Abt. Anat. der Rhein.-Westf. Techn. Hochschule, Melatener Str. 211, 51 AACHEN, B.R.D. (Germany)
a Implantation: dissolution of blastocyst coverings, attachment, invasion (morphology, histochemistry, biochemical mechanisms, characterization and role of trophoblastic and uterine enzymes and inhibitors, particularly proteases and protease inhibitors, and their endocrine control). Oryctolagus cuniculus (Lagomorpha), Mus musculus, Mesocricetus auratus, Cavia porcellus (Rodentia), Felis sylvestris catus (Carnivora)
b Determination of trophoblast and inner cell mass during cleavage and blastocyst formation. Oryctolagus cuniculus (Lagomorpha), Mus musculus, Mesocricetus auratus (Rodentia), Felis sylvestris catus (Carnivora)

DENNE, M. P.; Ph.D. – Dept. of Forest. and Wood Sci., Univ. Coll. of North Wales, BANGOR, Gwynedd LL57 2UW, Wales, U.K.
a Environmental control of xylem development. Pinus sylvestris, Picea sitchensis (Gymnospermae)

DENNHÖFER, Ms. L.; Dr.rer.nat. – Inst. für Entw.physiol., Univ. zu Köln, Gyrhofstr. 17, 5 KÖLN 41, B.R.D. (Germany)
a In vitro study of the relation between puffing and development of salivary gland chromosomes. Drosophila melanogaster (Diptera)
b Development (growth) of salivary gland chromosomes in vitro. Same species as a

DENOULET, Ph.; M.Sc. – Lab. de Génét. du Dévl., Univ. P.et M. Curie, Ctr. de Rech. d'Ivry, 67 rue M.Günsbourg, 94200 IVRY-sur-SEINE, France
a Biosynthesis of RNA during oogenesis. Pleurodeles poireti (Urodela)

DENUCÉ, J. M.; Dr., Prof. – Dept. of Zool., Cathol. Univ., Toernooiveld, NIJMEGEN, Netherlands
a Morphology, physiology, and biochemistry of the hatching glands. Oryzias latipes, Brachydanio rerio (Teleostei), Xenopus laevis (Anura), Ciona intestinalis (Ascidiacea)
b Changes in protein pattern during development. Ephydatia fluviatilis (Porifera), Bombyx mori (Lepidoptera), Oryzias latipes, Brachydanio rerio (Teleostei)

DEOL, M. S.; Ph.D., D.Sc. – Dept. of Human Genet. and Biometry, Univ. Coll. London, Wolfson House, 4 Stephenson Way, LONDON NW1 2HE, England
a Developmental genetics of mutants with abnormalities of the inner ear. Mus musculus (Rodentia)
b Developmental genetics of mutants with abnormalities of pigmentation. Same species as a
c Mosaicism. Same species as a

DEPARIS, P.; D.Sc., Prof. – Lab. de Biol. Gén., Univ. Paul-Sabatier, 118 Rte de Narbonne, 31077 TOULOUSE Cedex, France
a Hematopoiesis. (Amphibia)
b Tissue transplantation. Pleurodeles waltl (Urodela)
c Hemoglobin switch (immunofluorescence; in vitro culture). (Urodela) (with A. M. DUPRAT and M. FLAVIN)

DE PETROCELLIS, Ms. B.; Ph.D. – Lab. of Molec. Embryol., Consiglio Naz. delle Ricerche, Via Toiano 2, ARCO FELICE, C.P.3042, 80100 Napoli, Italy
a Enzymes controlling DNA synthesis in developing embryos. Paracentrotus lividus (Echinoidea)

DE POMERAI, D. I.; Ph.D. – Inst. of Anim. Genet., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JN, Scotland, U.K.
a Ultrastructure, immunology, and cell properties of lenses with normal and genetically modified cell membranes. Gallus domesticus (Aves), Mus musculus (Rodentia) (with R. M. CLAYTON and D. J. PRITCHARD)
b Differentiation and cell interactions in vitro of normal and abnormal ocular epithelium. Same species as a (with R. M. CLAYTON and D. J. PRITCHARD)
c In vitro analysis of transdifferentiation of neural and pigmented retina. Gallus domesticus (Aves) (with R. M. CLAYTON and D. J. PRITCHARD)
d In vitro analysis of teratogens. (with R. M. CLAYTON and D. J. PRITCHARD)

DERAY, A.; Dr.3e Cycle – Lab. de Zool. et Embryol., Univ. de Besançon, Place Maréchal Leclerc, 25030 BESANÇON Cedex, France
a Différenciation sexuelle des hybrides femelles et des individus des espèces parentes. (Aves) (avec L. GOMOT)

DERI, P.; Dr.Biol. – Inst. of Histol. and Embryol., Univ. of Pisa, Via A.Volta 4, 56100 PISA, Italy
a Chromosomal aspects of regeneration and development. Dugesia benazzii (Turbellaria)
b Ultrastructural and electrophoretic aspects of oogenesis. (Nudibranchia, Gastropoda)

DERKSEN, J.; Drs. – Dept. of Genet., Cathol. Univ., Toernooiveld, NIJMEGEN, Netherlands
a Biochemistry and ultrastructure of specific nuclear ribonucleoprotein fractions. Drosophila hydei (Diptera)

DE SANTIS, R.; Dr. – Stazione Zoologica, Villa Comunale, 80121 NAPOLI, Italy
a Physiology of fertilization. Ciona intestinalis, Ascidia malaca, Phallusia mamillata (Ascidiacea)

DESBIENS, X. – Serv. de Biol. Anim., Univ. des Sci. et Techn. de Lille, B.P.36, 59650 VILLENEUVE D'ASCQ, France
a Limb morphogenesis. Mus musculus (Rodentia) (with A. BART)

DESSER-WIEST, Ms. L.; Dr. – Inst. für Krebsforsch., Univ. Wien, Borschkegasse 8a, Postfach 72, WIEN, Austria
a Growth regulation. (Rodentia)

b Influence of hormones on liver regeneration. (Rodentia)

DESTRÉE, O. H. J.; Drs. – Anat.-Embryol. Inst., Univ. of Amsterdam, Mauritskade 61, AMSTERDAM-O., Netherlands

a Histones in early embryonic development. Xenopus laevis (Anura)

DI SVEAUX, F. X.; Dr.3e Cycle – Lab. d'Immunol. Comp., Univ. Paris VI, 4 place Jussieu, 75230 PARIS Cedex 05, France

a Antibody response during ontogenesis. Cyprinus carpio (Teleostei)

DI SVEAUX (CHABROL), Ms. J.; Lic.Sci. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France

a Biochemical and electromicrographic study of RNA metabolism in embryonic skin, lung and erythroblasts. Gallus domesticus (Aves)

DETTLAFF, Ms. T. A.; Dr.biol., Prof. – Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.

a Regularities of the oocyte maturation process. (Acipenseridae, Chondrostei; Amphibia) (with E. V. CHULITZKAYA, P. F. FEULGENGAUER and A. S. STEPANOV)

b Influence of environmental conditions and thyroxine on the reaction of the follicle to hormones. (Acipenseridae, Chondrostei) (with S. I. DAVIDOVA)

DE TURENNE, Ms. M.; Dr.Spéc. – Sect. de Biol. Génér. et Appl., Univ. de Lyon I, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France

a Control of DNA synthesis in the silk gland during the fifth instar: role of enzymes (DNA-polymerase, kinases, ribonucleotide-reductase) and pools of deoxyribonucleoside triphosphates. Bombyx mori (Lepidoptera)

DEUCHAR, Ms. E. M.; Ph.D. – Dept. of Biol. Sci., Hatherly Labs., Univ. of Exeter, EXETER EX4 4PS, England

a Effect of maternal diabetes on embryonic development in vivo and in vitro. Rattus norvegicus (Rodentia)

DEVRIES, J.; D.Sc. – Lab. de Zool. A, Inst. de Biol. Anim., Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE, France

a Experimental embryology. (Oligochaeta)

DEWES, E.; Dr.rer.nat. – Fachber. Biol.-Zool., Univ. des Saarlandes, 6600 SAARBRÜCKEN 11, B.R.D. (Germany)

a Postembryonic differentiation and regeneration of imaginal discs in vivo and in vitro. Ephestia kühniella (Lepidoptera)

DEXHEIMER, J.; Prof. – Lab. of Bot. II (Cytol.), Univ. of Nancy I, C.O. 140, 54037 NANCY Cedex, France

a Cell differentiation, especially in root tip. Quercus spp. (Fagaceae)

DHAINAUT, A.; D.Sc. – Serv. de Biol. Anim., Univ. des Sci. et Techn. de Lille, B.P. 36, 59650 VILLENEUVE D'ASCQ, France

a Oogenesis in the absence of brain hormone. (Nereidae, Polychaeta)

b Golgi complex evolution and polysaccharide secretion in the oocyte. Nereis spec. (Polychaeta)

D'HONDT, J. L. – Lab. de Biol. des Invert. Marins et Malacol., Museum Natl. d'Hist. Nat., 57 rue Cuvier, 75005 PARIS, France

a Anatomy, histology, cytology and ultrastructure of larva, metamorphosis, and postlarva. Alcyonidium polyoum, Bowerbankia imbricata, Flustrellidia hispida (Ctenostomata, Ectoprocta)

b Larva and metamorphosis. Various spp. (Cheilostomata; Cyclostomata, Ectoprocta)

DHOUAILLY, Ms. D.; D.Sc. – Lab. de Zool. et Biol. Anim., Univ. Sci. et Méd. de Grenoble, B.P.53, Centre de Tri, 38041 GRENOBLE, France

a Formation of barb ridges in feather filaments. Gallus gallus, Anas platyrhynchos (Aves)

b Fine structure and composition of developing keratins. Same species as a, and Mus musculus (Rodentia), Lacerta muralis (Lacertilia)

DICK, D. A. T.; D.Sc., Prof. – Dept. of Anat., Med. Sci. Inst., Univ. of Dundee, Hawkhill, DUNDEE DD1 4HN, Scotland, U.K.

a Distribution of ions in oocytes (electron microscope analysis; stereology). Bufo bufo (Anura)

DIDIER (MARTIN), Ms. E.; D.Sc. – Lab. de Biol. Anim., Univ. de Clermont, B.P.45, 63170 AUBIÈRE, France

a Experiments on germ cell population and gonad organogenesis. Gallus domesticus, Coturnix coturnix (Aves)

DIDIER, R.; Dr.3e cycle – Lab. de Biol. Anim., Univ. de Clermont, B.P.45, 63170 AUBIÈRE, France

a Action des herbicides 2,4,5-T et simazine sur l'embryon. (Aves)

DIETERLEN (LIÈVRE), Ms. F.; D.Sc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France

a Experimental analysis of spleen morphogenesis. Gallus domesticus, Coturnix c. japonica (Aves)

b Origin of blood stem cells studied in early quail embryos grafted on chick yolk sac. Same species as a

DI GRANDI, Ms. F.; Dr. – Inst. of Zool., Univ. of Bologna, Via S.Giacomo 9, 40126 BOLOGNA, Italy

a X-ray destruction of germ cells, sterile gonad development and sex differentiation. Bufo bufo, Rana dalmatina (Anura)

b Descriptive and experimental study of development and sex differentiation of genital apparatus. Sepia officinalis (Cephalopoda)

c Regeneration and origin of germ cells. Mercierella enigmatica (Serpulidae, Polychaeta)

DILLON, Ms. K. J.; B.Sc. – Dept. of Pathol., Univ. of Bristol, University Walk, BRISTOL BS8 1TD, England

a Immunology of reproduction. Mus musculus (Rodentia), Homo sapiens (Primates)

b Biology of the trophoblast. Same species as a
c Early embryonic development. Mus musculus (Rodentia)

DOGTEROM, J.; Dr. – Netherl. Inst. for Brain Res., IJdijk 28, AMSTERDAM, Netherlands
a Interaction with hormones during maturation and adaptation of the nervous system. Rattus norvegicus (Rodentia), Homo sapiens (Primates)

DOHLE, W.; Dr.rer.nat. – Inst. Allg. Zool. und Exp. Morphol., Freie Univ., Kön.-Luise-Str.1-3, 1 BERLIN 33, B.R.D. (Germany)
a Cell differentiation in the germ band. Diastylis rathkei (Cumacea, Crustacea)
b Germ band formation. Gammarus pulex (Amphipoda), Neomysis vulgaris (Mysidacea, Crustacea)
c Differentiation of segmental structures during embryogenesis. Julidae (Diplopoda)

DOHMEN, M. R.; Drs. – Zool. Lab., State Univ. of Utrecht, Transitorium III, Padualaan 8, UTRECHT, Netherlands
a Electron microscopy of developmentally significant cytoplasm and cell contacts in early cleavage. Lymnaea stagnalis, Bithynia tentaculata, Crepidula fornicata (Gastropoda)
b Surface properties of eggs in relation to cytoplasmic localisations. Nassarius reticulatus, Crepidula fornicata, Buccinum undatum (Gastropoda)

DOLCEMASCOLO, G.; Dr. – Ist. di Biol. Gen., Univ. di Palermo, Via Divisi 83, 90133 PALERMO, Italy
a Histochemistry and ultrastructure of oogenesis and embryology. (Ascidiacea) (with V. MANCUSO and M. GIANGUZZA)

DOLLANDER, A.; Dr.méd., Prof. – Lab. d'Embryol., Univ. de Nancy I, B.P.1080, 54019 NANCY Cedex, France
a Développement de la langue et du larynx. Homo sapiens (Primates) (avec R. SEMBA, Japan et C. CHOFFEL)

DOMENECH RATTO, G. – Dept. of Anat., Fac. of Med., MURCIA, Spain

DONATO (CELI), Ms. A. – Ist. di Zool. e di Anat. Comp., Univ. di Messina, Via dei Verdi 75, 98100 MESSINA, Italy

DONGEN, C. A. M. van; M.Sc. – Zool. Lab., State Univ. of Utrecht, Transitorium III, Padualaan 8, UTRECHT, Netherlands
a Significance of polar lobe material for the control of development (morphology, biochemistry). Dentalium spec. and others (Mollusca)
b Significance of ooplasmic segregation for the control of pattern formation, determination and differentiation in early development (morphology, biochemistry). Same species as a

DONKELAAR, H. J. ten; Dr. – Dept. of Anat. and Embryol., Cathol. Univ., Geert Grooteplein N.21, NIJMEGEN, Netherlands
a Development of the basal ganglia. Cricetulus griseus (Rodentia)

DOORENMAALEN, W. J. van; M.D., Prof. – Dept. of Med. Anat. and Embryol., State Univ. of Utrecht, Janskerkhof 3A, UTRECHT, Netherlands
a Immunological and immunochemical investigations on lens induction and differentiation. (Aves), Homo sapiens (Primates)
b Developmental mechanics of suturae cranii. Rattus spec. (Rodentia) (with H. A. J. OUDHOF (Dent. School))

DOREE, M.; D.Sc. – Stat. Biol., place Georges-Teissier, 29211 ROSCOFF, France
a Hormonal control of meiosis reinitiation, cellular and biochemical aspects. Marthasterias glacialis (Asteroidea), Xenopus laevis (Anura)
b Control of mitosis by N6-substituted adenins (cytokinins). (Plantae; Animalia)

DOSKOČIL, M.; MUDr., D.Sc.,Doc. – Dept.of Anat., Charles Univ., U nemocnice 3, 12800 PRAHA 2, Czechoslovakia
a Development of the pineal body. Gallus domesticus (Aves)
b Teratogenic action of new medicaments on early development. Same species as a

DOSTÁL, M.; MUDr., CSc. – Inst. of Exp. Med., Dept. of Teratol., Czech. Acad. of Sci., Legerova 61, 120 00 PRAHA 2, Czechoslovakia
a Development of the secondary palate under normal and experimental conditions. Mus musculus, Rattus norvegicus (Rodentia)
b Elaboration of an appropriate method for testing the teratogenic activity of drugs. Same species as a

DOTT, H. M.; Dr. – A..R.C.Unit of Reprod. Physiol. & Biochem., Anim. Res. Station, 307 Huntingdon Rd., CAMBRIDGE CB3 0JQ, England

DOUAY, F.; M.Sc. – Lab. de Morphogen. Végét., Univ. d'Aix-Marseille III, Fac. St-Jérôme, rue Henri Poincaré, 13397 MARSEILLE Cedex 4, France
a Seed dormancy and germination. Olea europaea (Oleaceae)

DOUGLAS, A. H. M.; B.Sc. – Dept. of Devl. Biol., Marischal Coll., Aberdeen Univ., ABERDEEN AB9 1AS, Scotland, U.K.
a Growth and development of embryonic muscle in culture, especially balance between fibroblasts and myoblasts, and maintenance of myotubes. Gallus domesticus (Aves)

DOUMENC, D. – Lab. de Biol. des Invert. Marins et Malacol., Museum Natl. d'Hist. Nat., 57 rue Cuvier, 75005 PARIS, France
a Light and electron microscopy and histochemistry of metamorphosis. Actinia equina, Cereus pedunculatus (Actinozoa)

DOWNIE, J. R.; Ph.D. – Dept. of Zool., Univ. of Glasgow, GLASGOW G12 8QC, Scotland, U.K.
a Cell behaviour, mainly epithelial cells, in the expansion of the blastoderm. Gallus gallus (Aves)
b Development of specialised cell contacts in the early blastoderm. Same species as a

DRAGOMIROV, N. I.; Dr.biol., Prof. – A.N.Severtzov Inst. of Evol. Morphol. and Ecol. of Animals, Acad. of Sci. of the USSR, Lenin Ave.33, MOSCOW 117071, U.S.S.R.

a The organogenesis gradients in the spiracular section of the lateral sensory system. Huso huso (Chondrostei)

DREWS, U.; Dr.med., Prof. – Anat. Inst. der Univ., Vesaliusweg 2-4, 44 MÜNSTER, B.R.D. (Germany)

a Expression of Tfm (testicular feminization) and Sxr (sex reversed) in the development of male sex organs (epithelio-mesenchymal recombination). Mus musculus (Rodentia)

b Cholinesterase activity in non-nervous embryonic tissues (histochemistry). Same species as a

DROIN, Ms. A.; Dr.biol. – Stat. de Zool. Exp., Univ. de Genève, 154 route de Malagnou, 1224 CHÊNE-BOUGERIES, Switzerland

DRUGA, Ms. A.; M.D. – Res. Inst. for Pharm. Chem., P.O.Box 82, 1325 BUDAPEST, Hungary

a Teratogenetic effect of chemicals, especially drugs containing the piperazin ring. Rattus norvegicus (Rodentia)

b Perphenazine induced micromelia (histology: topooptical reaction). Same species as a

c The effect of phenobarbital and SKF 525-A pretreatment on the teratogenicity of perphenazine, to study whether the unchanged perphenazine is teratogenic or not. Same species as a

DRUGA, R.; MUDr. – Dept.of Anat., Charles Univ., U nemocnice 3, 12800 PRAHA 2, Czechoslovakia

a Prenatal morphological development of basal ganglia. Felis domestica (Carnivora), Rattus norvegicus (Rodentia), Oryctolagus cuniculus (Lagomorpha)

DRUKKER, J.; Ph.D. – Anat.-Embryol. Inst., Univ. of Amsterdam, Mauritskade 61, AMSTERDAM-O., Netherlands

a Descriptive and experimental studies of the developing central and peripheral nervous system. Gallus domesticus (Aves)

b Histochemical characteristics of developing chemoreceptor organs. Oryctolagus cuniculus (Lagomorpha), Mus musculus, Rattus norvegicus (Rodentia)

c Embryology of the endocrine cells of the pancreas. Same species as a

DÜBENDORFER, A.; Dr. phil.II – Zool.-Vergl. Anat. Inst., Univ. Zürich, Künstlergasse 16, 8006 ZÜRICH, Switzerland

a Determination and cell lineage in imaginal discs. Drosophila melanogaster (Diptera)

b Cell and tissue culture. Same species as a

DUBOIS, R.; Dr. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France

a Lignée germinale et morphogenèse sexuelle. Gallus gallus (Aves) (avec D. CUMINGE)

b Biosynthèse glycoprotéique dans les ébauches gonadiques (topochimie, cinétique). Même espèce comme a

c Effets des lectines sur l'amiboïdisme des cellules germinales. Même espèce comme a

d Aspects discontinus du renouvellement dans les systèmes biologiques à cloisonnement anatomique complexe. Même espèce comme a

DUKE, E. J.; Ph.D. – Zool. Dept., Univ. Coll., Belfield, Stillorgan Rd., DUBLIN 4, Ireland

a Molecular basis of drug-sensitivity and resistance during development of inbred lines (especially 5-fluorouracil, streptomycin, cytosine arabinoside). Drosophila melanogaster (Diptera)

b Genetic and epigenetic mechanisms governing the expression of aldehyde oxidase and xanthine dehydrogenase in developmental stages. Locusta migratoria (Orthoptera), Drosophila melanogaster (Diptera), Mus musculus (Rodentia)

c Carcinogenesis of embryonic cells cultured in vitro, induced by chemicals, viruses, irradiation and suitable subculturing. Mus musculus, Cricetulus griseus (Rodentia)

DUNCAN, C. J.; Ph.D., Prof. – Dept. of Zool., Univ. of Liverpool, Brownlow St., P.O.Box 147, LIVERPOOL L69 3BX, England

a Factors affecting early differentiation (ionophore, calcium, electron microscopy). Xenopus laevis (Anura)

DUNCKER, H. R.; Dr.rer.nat., Dr.med., Prof. - Zentrum für Anat. und Cytobiol., Justus Liebig Univ., Aulweg 123, 6300 GIESSEN, B.R.D. (Germany)

a Embryological and post-hatching development of the lung-air sac system, especially the number and arrangement of secondary bronchi and parabronchi, and the parabronchial blood-air capillary network. Columba spec., Gallus spec., Anas spec., Melopsittacus spec., Turdus spec., Passer spec., Taeniopygia spec. and others (Aves)

b Embryological development of celomic cavities and subdividing septa in correlation to development of the lung-air sac system and of the intestinal and urogenital tract. Gallus spec., Anas spec., Columba spec. and others (Aves)

DUNN, G. A.; Ph.D. – Strangeways Res. Lab., Worts Causeway, CAMBRIDGE CB1 4RN, England

a Cell relations in tissue culture. Gallus gallus (Aves), Mus musculus (Rodentia) (with M. ABERCROMBIE and J. P. HEATH)

DUPRAT (ESCUDIÉ), Ms. A. M.; D.Sc. – Lab. de Biol. Gén., Univ. Paul-Sabatier, 118 Rte de Narbonne, 31077 TOULOUSE Cedex, France

a Determination and differentiation of cultured embryonic cells. (Urodela)

b Role of non-histone chromatin proteins. (Urodela)

c Hemoglobin switch (immunofluorescence; in vitro culture). (Urodela) (with P. DEPARIS and M. FLAVIN)

DUPUIS (CERTAIN), Ms. P. – Lab. de Biol. Anim., Univ. Paris VI (P.et M. Curie), 4 place Jussieu, 75230 PARIS Cedex 05, France

a Histochemistry of steroid enzymes. Discoglossus spec. (Anura), Pleurodeles spec. (Urodela)

DURAND, J. P.; D.Sc. – Lab. Souterrain, Centre Natl. Rech. Scient., 09410 MOULIS, France

a Reproduction and development of cave dwelling forms. (Teleostei; Urodela)

b Experiments on ontogenesis and eye degeneration

DURANTE. Ms. M. C.; D.Sc., Prof. – Ist. di Zool., Univ. di Palermo, Via Archirafi 18, 90123 PALERMO, Italy
a Ribosomal RNA synthesis during opercular regeneration. Hydroides norvegica (Polychaeta)
b Cyclic nucleotides during embryonic development. Ciona intestinalis (Ascidiacea)
DURCHON, M.; Prof. – Serv. de Biol. Anim., Univ. des Sci. et Techn. de Lille, B.P.36, 59650 VILLENEUVE D'ASCQ, France
a Endocrine control of gametogenesis and metamorphosis. (Polychaeta)
DURST (ŽIVKOVIĆ), Ms. B.; M.D., D.Sc – Inst. of Histol. and Embryol., Fac.of Med., Univ. of Zagreb, Šalata 3, P.O.Box 166, 41001 ZAGREB, Yugoslavia
a Differentiation of the stroma of chorionic villi. Homo sapiens (Primates)
DURSTON, A. J.; Ph.D. – Hubrecht Lab. (Intern. Embryol. Inst.), Uppsalalaan 8, 3584 CT UTRECHT, Netherlands
a Pattern formation: control of cell movement and differentiation. Dictyostelium (Acrasiales)
DUSPIVA, F.; Dr., Prof. (Emer.) – Physiol. Lehrst., Zool. Inst. der Univ., Im Neuenheimer Feld 230, 6900 HEIDELBERG, B.R.D. (Germany)
a Localization of enzymes within the embryo and in subcellular fractions. Acheta domesticus (Orthoptera), Dysdercus intermedius (Heteroptera)
b Protein differentiation, ontogeny of enzyme patterns. Same species as a
c Energy metabolism and metabolism of nucleic acids, nucleotides, and cofactors during development. Same species as a
d Nucleic acids in oogenesis. Dysdercus intermedius (Heteroptera)
DUTTON, G. J.; Ph.D., D.Sc. – Dept. of Biochem., Med. Sci. Inst., Univ., DUNDEE DD1 4HN, Scotland, U.K.
a Developmental biochemistry of "detoxicating" enzymes in embryonic, fetal, and neonatal tissues (tissue culture). Gallus domesticus (Aves), Mus musculus, Rattus spec. (Rodentia), Homo sapiens (Primates)
b Xenobiotic and endocrinological factors affecting development of detoxicating and carbohydrate-metabolising enzymes. Same species as a
DYER, H.McM.; B.Sc., M.B., Ch.B. – Dept. of Devl. Biol., Marischal Coll., Univ. of Aberdeen, ABERDEEN AB9 1AS, Scotland, U.K.
a The effects of hyperglycaemia and insulin on embryonic tissues grown in vitro. Gallus gallus (Aves)
b The differentiation of adipose tissue in vitro. Same species as a
DYLEVSKÝ, I.; MUDr.,Doc. – Dept. of Anat., Charles Univ., U nemocnice 3, 12800 PRAHA 2, Czechoslovakia
a Prenatal development of muscles and connective tissue. Homo sapiens (Primates)
DYSON (DEPLEDGE), Ms. M.; Ph.D. – Dept. of Anat., Guy's Hosp. Med. School, LONDON SE1 9RT, England
a Mechanism and effect of ultrasonically induced red cell stasis on development. Gallus domesticus (Aves)
b Stimulation of tissue regeneration by ultrasound: 1. protein synthesis; 2. cell mobility. Rattus spec. (Rodentia)
EBENDAL, T.; Ph.D. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden
a Factors influencing neuron differentiation in embryonic ganglia in culture. Gallus domesticus (Aves)
b Orientational mechanisms in migrating cells and extending axons in vitro and in vivo
ECKSTEIN, P.; M.D., D.Sc., Prof. – Dept. of Anat., Med. School, Univ. of Birmingham, Edgbaston, BIRMINGHAM B15 2TJ, England
a Mode of action of intra-uterine devices: 1. hormone concentrations in blood at critical stages of cycle and gestation; 2 enzymic and hormonal composition of uterine secretions; 3. tissue reactions to intra-uterine materials. Mus musculus (Rodentia); Macaca mulatta, Papio papio (Primates)
b Recovery and attempted transfer of eggs. Macaca mulatta (Primates)
EDE, D. A.; Ph.D. – Dept. of Zool., Univ. of Glasgow, GLASGOW G12 8QC, Scotland, U.K.
a Experimental studies on limb bud development. Gallus gallus (Aves)
b The cellular basis of morphogenesis using embryological mutants. Gallus domesticus (Aves), Mus musculus (Rodentia)
EDWARDS, J. G.; Ph.D. – Dept. of Cell Biol., Univ. of Glasgow, GLASGOW G11 6NU, Scotland, U.K.
a Formation of adhesions in reaggregating cells: embryonic cells, Gallus domesticus (Aves), cultureld cell lines, various species
EDWARDS, R. G.; D.Sc. – Marshall Lab., Dept. of Physiol., Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3EG, England
a Conception. (Mammalia)
EEKEN, J. C. J.; Drs. – Dept. of Genet., Cathol. Univ., Toernooiveld, NIJMEGEN, Netherlands
a Changes in ultrastructure, protein and RNA synthesis of salivary glands during puparium formation in relation to the action of ecdysterone. Drosophila lebanonensis (Diptera)
b The influence of controlling factors provided by the physiological clock on timing of puparium formation. Same species as a
EFIMOV, E. A.; Cand. biol.sci. – Inst. of Human Morphol., Acad. of Med. Sci. of the USSR, Tsurupa St.3, MOSCOW 117469, U.S.S.R.
a Regeneration of skin. Erinaceus europaeus (Insectivora), Martes zibellina, Vulpes vulpes, Alopex lagopus, Felis catus, Mustela lutreola (Carnivora), Gallus gallus, Columba livia (Aves)

EFREMOVA, Ms. S. M.; Cand.biol. – Dept. of Embryol., Leningrad State Univ., Mendeleevsky St. 5, LENINGRAD 199164, U.S.S.R.
a Development and metamorphosis (histology, ultrastructure, autoradiography). Zubomirskia baicalensis, Baikalospongia bacillifera (Porifera)
EGBERTS, D. J. N.; Drs. – Zool. Lab., Unit of Cell Biol. and Morphogen., State Univ., Kaiserstr. 63, LEIDEN, Netherlands
a Effect of hormones on DNA synthesis, proliferation and differentiation in imaginal discs. Calliphora erythrocephala (Diptera)
EGELHAAF, A.; Dr.rer.nat., Prof. – Zool. Inst. der Univ., Weyertal 119, 500 KÖLN 41, B.R.D. (Germany)
a Genetic basis of eye pigment differentiation. Ephestia kühniella (Lepidoptera)
b Gene action in morphogenesis. Same species as a, and Drosophila melanogaster (Diptera)
c Differentiation of the eye and optic lobe during metamorphosis, especially retina-lamina projections. Same species as a
EHN, J. A.; Ph.D. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden
a Embryology. (Arachnoidea)
EKBLOM, P.; M.D. – Lab. of Exp. Embryol., III.Dept. of Pathol., Univ. of Helsinki, Haartmaninkatu 3, 00290 HELSINKI 29, Finland
a Mechanism of kidney tubulogenesis. Mus musculus (Rodentia) (with L. O. SAXÉN, J. J. WARTIOVAARA, E. LEHTONEN, S. NORDLING and J. SALONEN)
ELBLING, Ms. L.; Dr.phil. – Inst. für Krebsforsch., Univ. Wien, Borschkegasse 8a, Postfach 72, A-1090 WIEN, Austria
a Induction of teratogenesis and carcinogenesis by hormones and other substances in ova and preimplantation stages in vivo and in vitro. (Mammalia)
b Formation of chimaeric embryos. (Mammalia)
ELGER, W.; M.D. – Dept.of Endocr. Pharmacol.I, Schering AG, Müllerstr. 170-178, Postfach 650311, 1 BERLIN 65, B.R.D. (Germany)
a Diethylstilboestrol (DES)-induced "vaginal" cancer. Mus musculus, Rattus spec. (Rodentia), Oryctolagus cuniculus (Lagomorpha)
EL HAJZEIN, B.; M.Sc. – Lab. de Morphogen. Végét., Univ. d'Aix-Marseille III, Fac. St-Jérôme, rue Henri Poincaré, 13397 MARSEILLE Cedex 4, France
a Apical dominance: 1. influence of the leaves according to their developmental stage; 2. growth correlations between lateral buds. Gleditsia triacanthos (Leguminosae)
ELIASSON (KLEIN), Ms. E.; Fil.Dr. – Wenner-Gren Inst., Norrtullsgatan 16, 113 45 STOCKHOLM, Sweden
a Enzyme induction and repression, particularly arginase. Gallus spec (Aves)
b Induction and repression of enzyme synthesis in cells in tissue culture. Homo sapiens (Primates)
c Regulation of synthesis of transfer RNA. (Mammalia)
EL KEBIR (YAZID), Ms. F. – Lab. d'Embryol., Univ. Paris VI, 4 place Jussieu, 75230 PARIS Cedex 05, France
ELSDALE, T. R.; Ph.D. – Clin. and Popul. Cytogenet. Res. Unit, Western Gen. Hosp., EDINBURGH EH4 2XV, Scotland, U.K.
EMANUELSSON, H.; Fil.Dr. – Zoophysiol. Inst., Univ. of Lund, Helgonavägen 3, 223 62 LUND, Sweden
EMELIANOV, S. V. † Prof. – USSR Acad. of Sci., MOSCOW, U.S.S.R.
EMERIT, M.; D.Sc. – Lab. de Zool.II (Morphol. et Écol.), Univ. des Sci. et Techn. du Languedoc, place E.Bataillon, 34060 MONTPELLIER, France
a Embryonic and postembryonic development. Gasteracantha spec., Isoxya spec., Acrosomoides spec. (Gasteracanthinae, Araneida, Arachnida)
EMIG, C. C.; D.Sc. – Station Marine d'Endoume, Univ. d'Aix-Marseille, Rue de la Batterie des Lions, 13007 MARSEILLE, France
a Comparison of asexual reproduction with ontogenesis and phylogenesis, especially of nephridia and mesenteries. (Phoronida)
b Anatomy, embryology, development, regeneration; phylogenetic affinities (Phoronida; Brachiopoda)
EMMERT, W.; Dr.rer.nat., Prof. – Zool. Inst. (I) der Univ., Röntgenring 10, 87 WÜRZBURG, B.R.D. (Germany)
ENGELS, W.; Dr.rer.nat., Prof. – Inst. für Biol.III, Lehrst. Entw. physiol., Univ. Tübingen, Auf der Morgenstelle 28, 7400 TÜBINGEN, B.R.D. (Germany)
ENGLAND, Ms. M. A.; Ph.D. – Dept. of Anat., Univ. of Leicester, University Rd., LEICESTER LE1 7RH, England
a Primary neural induction. Gallus domesticus (Aves)
b Cell shapes and movements in the early embryo. Same species as a (with J. WAKELY)
ENGLÄNDER, H.; Dr.med., Dr.rer.nat., Prof. – Zool. Inst. der Univ., Weyertal 119, 5 KÖLN 41, B.R.D. (Germany)
a Regionalspezifische Induktion. Ambystoma mexicanum, Triturus vulgaris, T. helveticus, T. alpestris (Urodela)
b Die Wirkung von Lithium auf die Differenzierungsleistung des Ektoderms. Dieselben Arten wie a
c Disaggregation und Reaggregation von frühembryonalem Gewebe. Dieselben Arten wie a
EPPENBERGER, H. M.; Ph.D., Prof. – Inst. of Cell Biol., Swiss Fed. Inst. of Technol., Hönggerberg, 8093 ZÜRICH, Switzerland
a Phylogeny and ontogeny of phosphagen kinases. (Insecta; Pisces; Aves)
b Myogenesis in vitro. Gallus domesticus (Aves), Rattus spec. (Rodentia)
c Myofibrillar organellogenesis. Gallus domesticus (Aves)

ERDELSKÁ, Ms. O.; RNDr., CSc. – Inst. of Exp. Biol. and Ecol., Slovak. Acad. of Sci., Dúbravská 26, 88534 BRATISLAVA, Czechoslovakia
a Microcinematography of the embryo sac before and shortly after fertilization. Galanthus nivalis (Amaryllidaceae), Torenia fournieri (Scrophulariaceae)
b Embryogenesis in situ and the development of embryos in culture. Linum usitatissimum (Linaceae), Jasione montana (Campanulaceae)
EVANGELISTI, Ms. R.; Dr.Sci.Biol. – Inst. of Histol. and Gen. Embryol., Univ. of Ferrara, Via Fossato di Mortara 64, 44100 FERRARA, Italy
a Induction of yolk protein synthesis in cultured embryonic liver cells. Gallus domesticus (Aves)
EVANS, A. J.; Ph.D. – Poultry Res. Ctr., Agric. Res. Counc., King's Bldgs., West Mains Rd., EDINBURGH EH9 3JS, Scotland, U.K.
a Yolk transport mechanism in ovarian follicle. Gallus domesticus (Aves)
EVANS, C. W.; Ph.D. – Dept. of Cell Biol., Univ. of Glasgow, GLASGOW G11 6NU, Scotland, U.K.
a Measurement of cell adhesion of lymphocytes and its role in circulation, disease and development. Mus musculus (Rodentia)
b Effect of immune recognition on reproduction, development and colony formation. Various spp. (Demospongiae, Porifera)
EVANS, M. J.; Ph.D. – Dept. of Anat. and Embryol., Univ. Coll. London, Gower St., LONDON WC1E 6BT, England
a In vitro and in vivo growth, determination, and differentiation of teratoma cells. Mus musculus (Rodentia)
EVANS, P. M.; Ph.D. – Zool. Dept., Univ. Coll. of Wales, Penglais, ABERYSTWYTH SY23 3DA, Wales, U.K.
a Sorting out in mixed aggregates of embryonic tissue cells. Gallus domesticus (Aves)
b Role of surface carbohydrates in cellular adhesiveness. Same species as a
FABER, J.; Ph.D. – Hubrecht Lab. (Intern. Embryol. Inst.), Uppsalalaan 8, 3584 CT UTRECHT, Netherlands
FACCIO (DOLFINI), Ms. S.; D.Sc. – Ist. di Genet., Univ. di Milano, via Celoria 10, 20133 MILANO, Italy
a Development and cytology of cultured cells. Drosophila melanogaster (Diptera)
b Cytological aspects of heterochromatin. Same species as a
FACHBACH, G.; Dr.phil. – Zool. Inst. der Univ., Universitätsplatz 2, A 8010 GRAZ, Austria
FALEEVA, Ms. T. I. – Lab. of Exp. Ichthyol., Biol. Inst., Leningrad State Univ., Stary Peterhof, LENINGRAD 198904, U.S.S.R.
a Effect of X-irradiation on gametogenesis. (Chondrostei; Teleostei)
FALUGI, Ms. C.; Dr.Biol. – Ist. di Anat. Comp., Univ. di Genova, Via Balbi 5, 16126 GENOVA, Italy
a Effects of cholinesterase inhibitors on development (Ascidiacea; Echinoidea)
b Acetylcholine receptors in eggs and early embryos. Same species as a
c Naphthylamidase activities in eggs and embryos. (Cirripedia & Branchiopoda: Crustacea)
FANGHANEL, J.; Dr.sc.med. – Anat. Inst., Wilhelm-Pieck Univ., Gertrudenstr.9, 25 ROSTOCK 1, D.D.R. (Germany)
FARGEIX, N.; D.Sc. – Lab. de Biol. Anim., Univ. de Clermont, B.P.45, 63170 AUBIÈRE, France
a Lignée germinale et morphogenèse gonadique (Aves)
FARINA, Ms. E.; Dr. – Zool. Inst., Univ. of Palermo, Via Archirafi 18, 90123 PALERMO, Italy
FARINELLA (FERRUZZA), Ms. N.; D.Sc., Prof. – Zool. Inst., Univ. of Palermo, Via Archirafi 18, 90123 PALERMO, Italy
a Hybridization. (Ascidiacea)
b Xenoplastic transplantation. Discoglossus pictus (Anura), Triturus cristatus (Urodela)
c RNA synthesis in egg development. Ciona intestinalis, Ascidia malaca, Clavellina lepadiformis (Ascidiacea)
d Embryonic and post-larval development. Molgula impura (Ascidiacea)
e Action of hydrostatic pressure on embryonic development. Ascidia malaca, Ciona intestinalis, Ascidiella aspersa (Ascidiacea)
f Hybrids from fused gigantic eggs. Same species as e
FARNESI, Ms. R. M.; Dr. – Ist. di Anat. Comp., Univ. di Perugia, via A. Pascoli, 06100 PERUGIA, Italy
a Spermiogenesis. Dugesia lugubris (Turbellaria)
b Histochemistry and ultrastructure of the cocoon. Branchiobdella pentodonta (Oligochaeta)
c Histochemistry and ultrastructure of a frontal structure present in larva and adult. Trissolcus spp. (Hymenoptera)
FAUCOUNAU, Ms. N.; Lic.Sc. – Lab. d'Histol. et d'Embryol., Univ. de Bordeaux II, 146 rue Leo-Saignat, 33076 BORDEAUX Cedex, France
a Role of thyroid hormones in teratogenesis. Gallus gallus (Aves)
FAUTREZ, J. C.; M.D., Prof. – Lab. of Anat., Univ. of Gent, Ledeganckstr. 35, 9000 GENT, Belgium
FAZEKAS-TODEA, Ms. I.; M.D. – Lab. of Embryol., Ctr. of Hyg. and Publ. Health, Bv. Mihai Viteazul 24, 1900 TIMIŞOARA, Rumania
a Experimental teratology. Gallus domesticus (Aves)
b Development of embryonic axial organs (somitogenesis). Same species as a
FEDECKA (BRUNER), Ms. B.; D.Sc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Enzyme synthesis and activation during development. Gallus gallus (Aves)
FEIERTAG (KOPPEN), Ms. C. C. M.; Drs. – Vakgroep Genetica, State Univ. of Groningen, Biol. Ctr., Vleugel A, HAREN 8045, Netherlands
a Oogenesis and fertilisation; parthenogenesis. Tetranychus urticae (Acari, Arachnida)

FEJERSKOV, O.; Dr.lic.odont., Prof. – Dept. of Dent. Pathol. and Operat. Dent., Royal Dent. Coll., Vennelyst Blvd., 8000 ARHUS C, Denmark
a Migrating epithelial cells in palatal wounds: cytology; scanning electron microscopy; morphometry; treatment with anti-neutrophilic serum. Cavia porcellus (Rodentia) (with L. ANDERSEN)
b Electron microscopy of tooth development in vitro. Mus musculus (Rodentia) (with I. THESLEFF and K. JOSEPHSEN)

FELBER, Ms. B.; cand.phil. – Div. of Cell and Devl. Biol., Zool. Inst., Univ. of Bern, Sahlistr.8, 3012 BERN, Switzerland
a Estrogen-dependent synthesis of vitellogenin in vitro. Xenopus laevis (Anura)

FELIX, J. M.; D.Sc. – Lab. de Physiol. Anim., Univ. de Reims, B.P. 347, 51062 REIMS Cedex, France
a Pre- and postnatal functional maturation of the hepatocyte. Rattus norvegicus (Rodentia) (with R. L. JACQUOT and C. LEGRELE)

FELL, Dame Honor B. – Dept. of Pathol., Div. of Immunol., Univ. of Cambridge, Lab. Block, Addinbrooke's Hosp., Hills Rd., CAMBRIDGE CB2 2QQ, England

FENSOM, A. H.; Ph.D. – Paediat. Res. Unit, Guy's Hosp. Med. Sch., Guy's Tower, LONDON SE1 9RT, England
a Development of enzyme systems before and after birth. Homo sapiens (Primates)

FERNANDEZ, Ms. M.; Dr.Biol. – Lab. de Biol. Gén., Univ. Paul-Sabatier, 118 Rte de Narbonne, 31077 TOULOUSE Cedex, France
a The recessive semi-lethal factor ac: temperature-sensitivity of homozygous mutants; maternal effect in the progeny of mutant females. Pleurodeles waltl (Urodela) (with J. C. BEETSCHEN)

FERNHOLM, B.; Dr., Prof. – Roskilde Univ. Ctr., Nat. Box 260, 4000 ROSKILDE, Denmark
a Embryology of endocrine organs. Eptatretus burgeri, E. stouti, Myxine glutinosa (Cyclostomata)

FERRIER, Ms. A.; M.D. – Lab. of Embryol. and Cytogenet., Univ. Clinic of Gynecol. and Obstet., Geneva Univ., 20 rue Alcide-Jentzer, 1211 GENÈVE 4, Switzerland

FERRIER, V.; Lic.ès Sci. – Lab. de Biol. Gén., Univ. Paul-Sabatier, 118 Route de Narbonne, 31077 TOULOUSE Cedex, France
a Experimental gynogenesis. Pleurodeles waltl (Urodela) (with A. JAYLET)
b Chemical mutagenesis. Same species as a (with J. C. BEETSCHEN and A. JAYLET)

FERRINI, U.; M.D., Prof. – Ist. di Zool. "Federico Raffaele", Viale dell' Università 32, 00161, ROMA, Italy
– Biophys. Lab., Canc. Inst. Regina Elena, Viale Regina Elena 291/295, 00161 ROMA (7), Italy

FERRUS, A.; Ph.D. – Sect. Devl. Genet., Inst. of Genet. CSIC, Ctr. of Molec. Biol., Univ. Autónoma de Madrid, Canto Blanco, MADRID 34, Spain
a Morphogenetic mutants in the wing disc. Drosophila spec. (Diptera)
b Developmental genetics of the nervous system. Same species as a

FEULGENGAUER, P. E. – Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.
a Regularities of the oocyte maturation process. (Acipenseridae, Chondrostei; Amphibia) (with T. A. DETTLAFF, E. V. CHULITZKAYA and A. S. STEPANOV)

FICKENTSCHER, K.; Dr.rer.nat., Prof. – Pharmaceut. Inst., Univ. of Bonn, An der Immenburg 4, 5300 BONN-Endenich, B.R.D. (Germany)
a Intercalation of thalidomide analogues into the DNA of Escherichia coli
b Placental passage of dibromo-maleinimide. Mus musculus (Rodentia)

FICQ, Ms. A. A.; D.Sc., Prof. – Dept. of Molec. Biol., Free Univ. of Brussels, 67 rue des Chevaux, 1640 RHODE-ST-GENÈSE, Belgium
a Observations autoradiographiques sur l'oogenèse et la morphogenèse. (Anura)
b DNA synthesis during early oogenesis. Xenopus laevis (Anura)
c Template activities of chromatin in meiotic cells. Same species as b
d Protein metabolism in early oogenesis. Xenopus laevis (Anura), Ambystoma mexicanum (Urodela)
e DNA, RNA, and protein metabolism in pachytene cells during amplification of rDNA (autoradiography). Same species as b
f Effect of protease inhibitors on early meiosis. Same species as b
g In situ effects of Neurospora crassa S1 endonuclease on pachytene chromatin at metamorphosis. Same species as b

FILOGAMO, G.; M.D., Prof. – Dept. of Human Anat., Univ. of Torino, Corso M.d'Azeglio 52, 10126 TORINO, Italy
a Neurogenic control versus autonomous determination of muscle cell in vivo and in vitro. Gallus domesticus (Aves)
b The formation of "en plague" synaptic structures. Same species as a

FILONI, S.; Dr.Biol. – Ist. di Anat. Comp. "Battista Grassi", Univ. di Roma, Via A. Borelli 50, 00161 ROMA, Italy

FILOSA PARISI, Ms. S.; Dr. – Ist. di Istol. ed Embriol., Univ. di Napoli, Via Mezzocannone 8, 80134 NAPOLI, Italy

FINCHAM, A. A.; Ph.D. – Dept. of Zool., Brit. Museum (Nat. Hist.), Cromwell Rd., LONDON SW7 5BD, England
a Larval development (laboratory rearing). (Natantia, Decapoda, Crustacea)

FIORONI, P.; Dr.phil., Prof. – Zool. Inst. der Univ., Lehrst. für spez. Zool., Hüfferstr. 1, 44 MÜNSTER, B.R.D. (Germany)
a Ultrastructure of early cell differentiation. Nassarius spec., Lymnaea spec. and others (Gastropoda)
b Comparative histology, ultrastructure, and biology of embryonic nutrition (yolk, albumen, food-eggs). Many genera (Gastropoda)

c Histology and ultrastructure of yolk resorption and development of yolk syncytium and intestine. Loligo and others (Cephalopoda)
d Histology, ultrastructure, and experimental study of yolk resorption. Brachydanio and others (Teleostei)
e Comparative histology and ultrastructure of the role of I-cells, especially in the formation of gonangia and gonophores. Many genera (Thecata & Athecata: Hydrozoa)

FISCHER, A.; Dr.rer.nat., Prof. – Zool. Inst. der Univ., Weyertal 119, 5000 KÖLN 41, B.R.D. (Germany)
a Course of biochemical development of oocytes; mode of oocyte size synchronization during oogenesis. Platynereis dumerilii, Nereis virens (Polychaeta)
b Structural development of egg follicles with nutritive cells. Piscicola spec. (Hirudinea)

FISCHER, J. L. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Action des rayons X sur la morphogenèse des arcs aortiques. Gallus domesticus (Aves)
b Malformations. (Anura; Urodela)
c Les effets tératogènes de l'hypothermie sur l'embryon. Même espèce comme a

FLAVIN, Ms. M.; Dr.biol. – Lab. de Biol. Gén., Univ. Paul-Sabatier, 118 Rte de Narbonne, 31077 TOULOUSE Cedex, France
a Structure of larval and adult haemoglobins; globin gene expression during development. (Urodela)
b Hemoglobin switch (immunofluorescence; in vitro culture). (Urodela) (with A. M. DUPRAT and P. DEPARIS)

FLÉCHON, J. E. – Lab. de Physiol. Anim., Ctr. Natl. de Rech. Zootechn., I.N.R.A., 78350 JOUY-en-JOSAS, France
a Ultrastructure and cytochemistry of cumulus cells, corona, zona pellucida and egg cortex before and after fertilization. Bos taurus, Ovis aries, Sus scrofa domesticus (Artiodactyla), Oryctolagus cuniculus (Lagomorpha)
b Ultrastructure of preimplantation blastocysts at different stages and after in vitro culture and freezing. Same species as a

FLINT, O. P.; Ph. D. – Dept. of Zool., Univ. of Glasgow, GLASGOW G12 8QC, Scotland, U.K.
a Behaviour and differentiation of normal and mutant cells in vivo and in vitro. Gallus gallus (Aves)
b Analysis of developmental mutants. Mus musculus (Rodentia)

FLOOD, P. R.; M.D., Assoc. Prof. – Inst. of Anat., Univ. of Bergen, Arstadvei 19, 5000 BERGEN, Norway
a Ultrastructure of skeletal muscle fibre types during ontogenesis. Branchiostoma lanceolatum (Cephalochordata), Lampetra fluviatilis (Cyclostomata)
b Ultrastructure of early development. Branchiostoma lanceolatum (Cephalochordata)

FOLIGUET, B. – Lab. de Biol. Méd., Univ. de Nancy I, B.P. 1080, 54019 NANCY Cedex, France
a Histogenèse du poumon. Rattus norvegicus (Rodentia)

FONTAINE, Ms. J. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Origin and differentiation of some APUD endocrine cells in the embryo. (Aves; Mammalia)
b Experiments on the absence of thymus development in the nude mutant. Mus musculus (Rodentia)

FONTÉS, M. – Lab. d'Histol. et Morphogen. Anim., Dépt. de Biol., Centre Univ. de Marseille-Luminy, 70 Rte Léon Lachamp, 13288 MARSEILLE Cedex 2, France
a Variations in structure and function of genetic material during the dedifferentiation phase of traumatic regeneration; possibilities of cell reprogramming during this phenomenon. Owenia fusiformis (Polychaeta)

FORD, P. J.; D.Phil. – Dept. of Molec. Biol., Univ. of Edinburgh, King's Buildings, Mayfield Rd., EDINBURGH EH9 3JR, Scotland, U.K.
a Control of protein and nucleic acid synthesis during oogenesis (especially 5s RNA, informational RNA). Xenopus laevis (Anura)

FOURCHE, J.; D.Sc. – Dépt. de Biol. Gén. et Appl., Univ. de Lyon I, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France
a Energetic metabolism during nymphal diapause; influence of external factors. Pieris brassicae (Lepidoptera)
b Thermal adaptation during diapause. Same species as a

FOURNIER, B.; D.Sc. – Lab. de Zool. Exp., Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE, France
a Experiments on leg morphogenesis in the embryo in vivo and in vitro. Carausius spec. (Phasmida)
b Ecdysterone and embryonic leg regeneration. Same species as a
c Cephalic endocrine glands and embryonic regeneration. Same species as a (with J. ROGUEDA)

FOX, H.; Ph.D., D.Sc. – Dept. of Zool., Univ. Coll. London, Gower St., LONDON WC1E 6BT, England
a Tail degeneration (electron microscopy, histochemistry). Rana temporaria, Xenopus laevis (Anura)
b Ultrastructure of larval tissues. Same species as a
c Larval growth. Same species as a (with S. C. TURNER, Portsmouth)
d Morphological and experimental study on origin and development of Merkel cells and chemosensory cells in larval epidermis. Many spp. (Anura & Urodela) (with M. WHITEAR)

FRAGOULIS, E.; Dr.rer.nat. – Dept. of Gen. Biol., Univ. of Athens, Panepistimioupolis, Kouponia (621), ATHENS, Greece
a Dopa decarboxylase from several mutants. Drosophila melanogaster (Diptera)

b Ribosomal proteins during development. Antheraea pernyi (Lepidoptera)

FRANCE, V. M.; Ph.D. – Dept. of Physiol., King's Coll., LONDON WC2R 2LS, England

a Causative factors for gallstone formation in fetus; steroid action on fluid transport in gallbladders in vitro; analysis of bile for pancreatic enzymes. Cavia porcellus (Rodentia), Ovis aries (Artiodactyla)

b Effects of prolactin, theophylline, ethacrynic acid and vasopressin on amnion conductance, chloride fluxes and on fluid movement across amnion in vitro. Ovis aries, Sus scrofa domesticus (Artiodactyla)

FRANCHI, L. L.; Ph.D. – Dept. of Anat., Med. School, Univ. of Birmingham, Edgbaston, BIRMINGHAM B15 2TJ, England

a Fine structure of normal and irradiated male and female germ cells. (Rodentia; Primates)

b Structure and function of chromosomes in oocytes in relation to radiosensitivity. (Rodentia; Carnivora; Primates and others)

FRANCO, Ms. N.; Lic.Sci. – Lab. de Biol. Méd., Univ. de Nancy I, B.P. 1080, 54019 NANCY Cedex, France

a Cytogenèse de l'adénohypophyse. Gallus domesticus (Aves)

FRANKENHUIS, M. T.; D.V.M. – Vet. Anat. and Embryol. Inst., State Univ. of Utrecht, Bekkerstraat 141, UTRECHT, Netherlands

a Effect of increasing scrotal temperature on testicular morphology in neonate. Sus scrofa domesticus (Artiodactyla)

b Effect of decreasing the temperature of the abdominal testis in cryptorchids on initiation of spermatogenesis. Same species as a

FRANQUINET, R.; Dr.3e Cycle – Lab. de Biol. Anim., Univ. Paris XII (Val de Marne), av. du Gén. de Gaulle, CRÉTEIL, France

a Membrane mediators (cyclic AMP, cyclic GMP) during regeneration; role of hormones and neurotransmitters. Planariidae (Turbellaria)

FRANZÉN, Å. S.; Ph.D. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden

a Comparative studies of spermatozoon and spermatogenesis. (Invertebrata)

b Larval development. (Brachiopoda; Entoprocta)

FRASCHINI, Ms. A.; Ph.D., Prof. – Inst. of Histol., Embryol. and Anthropol., Univ. of Pavia, Piazza Botta 10, 27100 PAVIA, Italy

a Maternal malnutrition as a cause of placental insufficiency and of abnormal fetal development, especially cerebellar pre- and post-natal histogenesis (qualitative and quantitative histochemistry). Rattus rattus (Rodentia)

b Normal and pathological spermatogenesis (quantitative cytochemistry). (Mammalia)

FRASER, Ms. L. REPSIS; Ph.D. – Clin. Res. Centre, Watford Rd., HARROW, Middlesex HA1 3UJ, England

a In vitro fertilization: effects of gamete age, culture conditions, etc., on developmental potential and on chromosomal complements. Mus musculus (Rodentia)

FRETTER, Ms. V.; Ph.D., D.Sc. – Dept. of Zool., Univ. of Reading, Whiteknights Park, READING RG6 2AJ, England

a Veliger larvae: structure, feeding, food requirements, digestion, structural changes at metamorphosis. coastal spp. (Prosobranchia, Gastropoda)

FREUND, Ms. E.; Dr.agr. – Anat. Inst., Wilhelm-Pieck Univ., Gertrudenstr. 9, 25 ROSTOCK 1, D.D.R. (Germany)

FREY, M.; M.Sc. – Inst. of Cell Biol., Swiss Fed. Inst. of Technol., Hönggerberg, 8093 ZÜRICH, Switzerland

a Electron microscopy of giant chromosomes. Chironomus spec. (Diptera)

FREYSSINET, G.; Dr.spéc. – Dépt. de Biol. Génér. et Appl., Univ. de Lyon I, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France

a Analysis and synthesis of ribosomal proteins. Euglena gracilis (Euglenophyceae)

b Nutritional requirements for chloroplast formation. Same species as a

FRIED (MONTAUFIER), Ms. M. C.; D.E.S. – Lab. de Génét. Évolut. et de Biomét., C.N.R.S., 91190 GIF-sur-YVETTE, France

FULCRAND, J.; Dr.Sci. – Lab. de Neurophysiol., Univ. des Sci. et Techn. du Languedoc, Place E. Bataillon, 34060 MONTPELLIER Cedex, France

a Ontogenèse et dégénérescence expérimentale des voies visuelles (radioautographie). Rattus norvegicus (Rodentia)

GABAJEVA, Ms. N. S.; Cand.biol. – Dept. of Embryol., Leningrad State Univ., Mendeleevsky St. 5, LENINGRAD 199164, U.S.S.R.

a Follicular epithelium morphology during oogenesis. Hemichromis multicolor (Teleostei)

b Comparative study of structure and functions of follicular epithelium in oogenesis. Lampetra fluviatilis (Cyclostomata), Xiphophorus spec. (Teleostei), Agama caucasica (Lacertilia), Testudo horsfieldi (Chelonia), Gallus domesticus (Aves)

GABRIEL-ROBEZ (KREMER), Ms. O.; Dr.méd. – Inst. d'Embryol., Univ. de Strasbourg, 4 rue Kirschleger, 67085 STRASBOURG Cedex, France

a Teratogenic effects of venoms and oestrogens. (Aves; Mammalia)

b Urogenital system abnormalities. Mus musculus (Rodentia), Oryctolagus cuniculus (Lagomorpha)

c Fractionation of Vipera aspis venom by gradient chromatography; teratogenic activity of the separated proteins compared to that of the whole venom

d Pseudohypoadrenocorticism (salt wasting syndrome); attempt to induce insensitivity to aldosterone of renal tubules of newborn by administering an antagonist (spironolactone) to the fetus. Mus musculus (Rodentia)

GABRION (TROTIGNON), Ms. J. B.; D.Sc. – Lab. d'Histol. et d'Embryol., Univ. de Montpellier, 2

rue École de Médicine, 34060 MONTPELLIER Cedex, France
a Origin of polarity in thyroid cells cultured in vitro (microtubules, microfilaments; cytochemistry).
GAILLARD, J. A.; M.D. – Lab. d'Histo-Pathol., Inst. Pasteur, 25 rue du Docteur Roux, 75015 PARIS, France
a Embryonic tumors; germ cell tumors; dysembryomas of ovary and testis; blastemal tumors. Homo sapiens (Primates)
b Comparative developmental morphology of embryoids and first stages of normal ova. Same species as a
c Extra-embryonic structures in embryomas. Same species as a
d Experimental teratomas. Mus musculus (Rodentia)
e Odontogenesis as a model of organogenesis in an ovarian teratoma (serial sections). Same species as a
f Comparative study of natural and experimentally induced yolk-sac tumours. Mus musculus (Rodentia), Homo sapiens (Primates)
GAILLARD, P. J.; M.D., Prof. – Lab. for Cell Biol. and Histol., State Univ., c/o Acad. Hosp., Rijnsburgerweg 10, LEIDEN, Netherlands
a Hormones and bone development (organ culture, enzyme chemistry, isotope techniques). Mus musculus (Rodentia)
b Imidazol and its derivates and bone development (organ culture). Same species as a
GAINO, Ms. E.; Dr.biol.sci. – Ist. di Zool., Univ. di Genova, Via Balbi 5, 16126 GENOVA, Italy
a Sexual dimorphism in the embryos of a parthenogenetic form. Penilia avirostris (Cladocera, Crustacea)
GAJÓ, Ms. M.; M.D. – Dept. of Anat., Univ. Med. Sch., Kossuth Lajos út 40, P.O.Box 512, 6701 SZEGED, Hungary
a Developmental histochemistry and electron microscopy of the autonomic ground plexus. Rattus rattus (Rodentia) (with B. CSILLIK, E. KNYIHÁR and G. KÁLMÁN)
GALAND, G.; D.E.S. – Lab. de Physiol. Anim., Univ. de Reims, B.P. 347, 51062 REIMS Cedex, France
a Functional development of small intestine. Rattus norvegicus (Rodentia)
GALLERA, J.; D.Sc. – Lab. d'Embryol. Exp., Inst. d'Histol., Univ. de Genève, 20 rue de l'Ecole de Médecine, 1211 GENÈVE 4, Switzerland
GALLIEN, C. L.; D.Sc., Prof. – Lab. de Biol. du Dévl., Univ. Paris V (René Descartes), 45 rue des Sts.Pères, 75270 PARIS Cedex 06, France
a Chronological study of nuclear and cytoplasmic activity by interspecific nuclear graft. (Amphibia)
b Action of different types and doses of irradiation on the development of isogenic embryos. Pleurodeles waltl, Ambystoma mexicanum (Urodela)
c Deep freezing of eggs. Pleurodeles waltl (Urodela)
GALLO, Ms. V.; Dr.biol.sci. – Ist. di Zool. "F.Raffaele", Univ. di Roma, Viale dell'Università 32, 00161 ROMA, Italy
GALLOIS-DIDELOT, Ms. D. – U.E.R. de Biol.-Zool., Univ. Paris VI, 105 Bd. Raspail, 75006 PARIS, France
a Genesis of male and female genital ducts and accessory glands in embryo and larva. Locusta migratoria (Orthoptera)
GAMBLE, H. J.; Ph.D. – Dept. of Anat., St. Thomas's Hosp. Med. School, Lambeth Palace Rd., LONDON SE1 7EH, England
a Development of peripheral nervous tissues in the foetus. Homo sapiens (Primates)
b Development of blood vessels in the central nervous system. Same species as a
GARCÍA AUSTT, E.; M.D. – Cienc. Fisiol., Fac. de Med., Univ. Autónoma, Arzobispo Morcillo 1, MADRID 34, Spain
GARCÍA-BELLIDO, A.; Ph.D. – Sect. Devl. Genet., Inst. of Genet. CSIC, Ctr. of Molec. Biol., Univ. Autónoma de Madrid, Canto Blanco, MADRID 34, Spain
a Developmental and genetic analysis of the wing imaginal disc; development in situ and in culture. Drosophila melanogaster (Diptera)
b Nature of the specificity of cell recognition in cell aggregates of imaginal discs; cell affinities of normal versus mutant genotypes. Same species as a
GARCIA GARCIA, J. D.; Med.Dr., Prof. – Inst. F. Olóriz, Fac. of Med., Univ. of Granada, GRANADA, Spain
a Cardiac morphogenesis. Homo sapiens (Primates)
b Morphogenesis of nervous system in the fetus. Same species as a
GARCIA-PORRERO, J. A.; Dr.Med. – Serv. de Embriol. Exp., Dept. de Anat., Fac. de Med., SANTANDER, Spain
a Role of mucopolysaccharides in normal and abnormal morphogenesis of the kidney (histochemistry). Oryctolagus cuniculus (Lagomorpha)
GARCIA VALDECASAS HUELIN, J. M.; Dr. – Serv. Embriol. Exp., Dept. Anat., Alava Univ., VITORIA, Spain
a Development of the primary stages of the ear. Gallus domesticus (Aves)
GARDENGHI, G.; Dr., Prof. – Inst. of Zool., Univ. of Bologna, Via S. Giacomo 9, 40126 BOLOGNA, Italy
a In vitro culture of larval gonads. Bufo bufo (Anura)
b Hormonic regulation of ovarian and Bidder's organ oogenesis. Same species as a
c Developmental biology. Macquartia chalconota (Larvaevoridae, Diptera)

GARDNER, R.; D.Phil. – Zool. Dept., Oxford Univ., South Parks Rd., OXFORD OX1 3PS, England
a Determination during early development. Mus musculus (Rodentia)
b Mechanism of X-chromosome inactivation. Same species as a
GAREL, J.-M.; Dr. – Lab. de Physiol. du Dével., Univ. P. et M. Curie, 9 quai Saint-Bernard, 75230 PARIS Cedex 05, France
a Parathyroid hormone and calcitonin: secretion, metabolism, and physiological role, especially in Ca, Mg, and P metabolism, before and after birth. Rattus spec. (Rodentia), Ovis aries, Bos taurus (Artiodactyla), Equus caballus (Perissodactyla)
GARGOUÏL, Y. M.; D.Sc., Prof. – Lab. de Physiol. Anim., Univ. de Poitiers, Bât.P, 40 av. du Recteur Pineau, 86022 POITIERS, France
no work on developmental biology in progress
GARROD, D. R.; Ph.D. – Dept. of Biol., Univ., SOUTHAMPTON SO9 5NH, England
a Morphogenetic movement and cell adhesion. Dictyostelium discoideum (Acrasiales)
b Tissue-specific sorting-out of embryonic cells. Gallus domesticus (Aves)
GASC, J. M.; D.Sc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Cortico-steroid binding protein (CBG) in the embryo. Gallus domesticus (Aves)
b Regression of mesonephros and differentiation of epididymis: an autoradiographic study of DNA synthesis. Same species as a
c Localization of steroid hormone receptors in gonads and genital ducts of the embryo. Same species as a
GASSER, F.; D.Sc. – Lab. de Biol. Gén., Univ. Paul-Sabatier, 118 Rte de Narbonne, 31077 TOULOUSE Cedex, France
a Genetical aspects of protein and enzyme differentiation in embryonic and larval stages. Pleurodeles waltl (Urodela) (with J. C. BEETSCHEN and A. JAYLET)
GATEFF (ZOLLIKOFER), Ms. E. A.; Ph.D. – Biol. Inst. I (Zool.) der Univ., Albertstr. 21a, 78 FREIBURG, B.R.D. (Germany)
a Normal and abnormal (neoplastic) development of the nervous system and the imaginal discs (tissue culture). Drosophila melanogaster (Diptera)
b Analysis of genetically controlled neoplasms. Same species as a
c Oogenesis and early embryogenesis. Drosophila spec. (Diptera)
GATHMANN, H. A.; Dr.med. – Pathol. Inst. der Univ. Erlangen-Nürnberg, Krankenhausstr. 8-10, 8520 ERLANGEN, B.R.D. (Germany)
a Embryology and teratology of the liver, especially of the bile ducts. Homo sapiens (Primates)
b Embryology and teratology of the skeleton, especially of the chondro- and neurocranium. Same species as a
GAUDECKER, Ms. B. von; Dr.rer.nat. – Anat. Inst. der Univ., Olshausenstr.40-60, 23 KIEL, B.R.D. (Germany)
a Ultrastructure and histochemistry of prepupal and pupal salivary glands. Drosophila melanogaster (Diptera)
b Thymus ultrastructure in the embryo. Homo sapiens (Primates)
GAZARYAN, K. G.; Dr.biol., Prof. – Chair of Embryol., Biol. Fac., State Univ. of Moscow, Lenin Hills, MOSCOW 117234, U.S.S.R.
a Role of chromosomal proteins in regulation of transcription in erythroid cells. Columba livia (Aves)
GEBHARDT, D. O. E.; Ph.D. – Dept. of Obstet. and Gynecol., Acad. Hosp., Rijnsburgerweg 10, LEIDEN, Netherlands
a Amniotic fluid analysis. Homo sapiens (Primates)
b Analysis of urinary estrogens during pregnancy. Same species as a
GEHRING, W. J.; Ph.D., Prof. – Abt. Zellbiol., Biozentrum der Univ., Klingelbergstr. 70, 4056 BASEL, Switzerland
a Cell determination and differentiation in embryos and imaginal discs. Drosophila spec. (Diptera)
GEILENKIRCHEN, W. L. M.; Ph.D. – Zool. Lab., State Univ. of Utrecht, Transitorium III, Univ. centrum "De Uithof", UTRECHT, Netherlands
a Metabolism and respiration of egg and embryo. Lymnaea stagnalis (Gastropoda)
b Influence of various kations on development. Same species as a
c Mechanisms of cytodifferentiation in cleaving eggs. Same species as a
d Germinal localization in eggs. Dentalium spec. (Scaphopoda), Patella spec. (Gastropoda)
GENDEREN, H. H. van; Drs. – Bot. Lab., State Univ. of Utrecht, Lange Nieuwstr. 106, UTRECHT, Netherlands
no work on developmental biology in progress
GENEIX, A.; Ph.D., Sc.D. – Lab. d'Histol.-Embryol.-Cytogénét., Fac. de Méd., B.P. 38, 63001 CLERMONT-FERRAND Cedex, France
a Chromosome ultrastructure. Homo sapiens (Primates)
GÉNIS-GÁLVEZ, J. M.; Med.Dr., Ph.D., Prof. – Lab. of Exp. Embryol., Dept. of Anat., Fac. of Med. Univ. of Sevilla, SEVILLA, Spain
GENNSER, G.; M.D., Assoc. Prof. – Dept. of Obstet. & Gynecol., Kvinnokliniken, Allmänna sjukhuset, 214 01 MALMÖ 8, Sweden
a Enzymology of placenta and amniotic fluid. Homo sapiens (Primates)
b Fetal breathing movements: influence of drugs and smoking; relation to postnatal breathing; regulating mechanisms (ultrasonic technique). Same species as a
c Endocrinology of feto-placental unit: pituitary-adrenal axis; influence of synthetic steroids; relation to onset of parturition. Same species as a
GEORGES, Ms. D.; Dr.spéc. – Lab. de Zool. et Biol. Anim., Univ. Sci. et Méd. de Grenoble, B.P. 53,

Centre de Tri, 38041 GRENOBLE, France
a Electron microscopy of cell junctions before and after metamorphosis. (Tunicata)
b Development of photoreceptor organ and neural complex in larvae and during metamorphosis (transmission and scanning electron microscopy). (Tunicata)

GERACI, G.; Ph.D. – Lab. of Molec. Embryol., Consiglio Naz. delle Ricerche, Via Toiano 2, ARCO FELICE, C.P. 3042, 80100 NAPOLI, Italy
a Physico-chemical and functional properties of the hemoglobins of the developing embryo and their localisation in the erythrocytes. Gallus gallus (Aves)
b Comparison of chromatin organisation in sperm cells and in embryonic nuclei. Paracentrotus lividus, Sphaerechinus granularis (Echinoidea)

GERARD, H. – Lab. d'Embryol., Univ. de Nancy I, B.P. 1080, 54019 NANCY Cedex, France
a Expériences (homogreffes) sur l'hématopoièse embryonnaire. Gallus domesticus (Aves) (avec F. KOHLER)

GERISCH, G.; Dr.rer.nat. – Biozentrum der Univ. Basel, Klingelbergstr. 70, 4056 BASEL, Switzerland
a Differentiation of cell membranes. Dictyostelium discoideum (Acrasiales)
b Immunochemical studies on cell differentiation. Same species as a
c Generation and recognition of periodic cyclic-AMP signals. Same species as a

GERLINGER, P.; Dr.Méd. – Inst. d'Embryol., Univ. de Strasbourg, 4 rue Kirschleger, 67085 STRASBOURG Cedex, France
a Étude de la formation des constituants de l'oeuf. Gallus domesticus (Aves)
b Control of ovalbumin synthesis in the oviduct of the laying hen. Same species as a

GERZELI, G.; Prof. – Ist. of Comp. Anat., Univ. of Pavia, Piazza Botta 10, 27100 PAVIA, Italy
a Isoprenaline induced modifications of liver cells (ploidy, structure, metabolism) during postnatal development. Rattus spec. (Rodentia)
b Effect of lathyrogenic substances on larvae. Xenopus laevis (Anura), Salamandra salamandra (Urodela)

GEUSKENS, M; D.Sc.Zool. – Dept. of Molec. Biol., Free Univ. of Brussels, 67 rue des Chevaux, 1640 RHODE-ST-GENÈSE, Belgium
a The influence of cytoplasmic constituents on genetic transcription during embryonic development (electron microscopy, autoradiography). (Amphibia)
b Cell coat and microfilament organisation during cleavage (concanavalin A-peroxidase staining; treatment with wheat germ and soybean agglutinins; electron microscopy). Xenopus laevis (Anura), Pleurodeles waltl (Urodela)

GEZELIUS, N. G. B.; Ph.D. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden
a Role of sulphate in transport of RNA during development. (Echinoidea)

GHIARA, G.; Dr.nat.sci., Prof. – Ist. di Istol. ed Embriol., Univ. di Napoli, Via Mezzocannone 8, 80134 NAPOLI, Italy

GHIRARDELLI, E.; Prof. – Inst. of Zool. and Comp. Anat., Univ. of Trieste, via A. Valerio 32, 34127 TRIESTE, Italy

GIACOBINI, G.; M.D. – Dept. of Human Anat., Univ. of Torino, Corso M. D'Azeglio 52, 10126 TORINO, Italy
a Development of neuro-muscular correlations under normal and experimental conditions (blockade of various components of the acetylcholine-system). Gallus domesticus (Aves)
b Transport of choline acetylase in the motor neuron. Same species as a

GIANGUZZA, M.; Dr. – Ist. di Biol. Gen., Univ. di Palermo, Via Divisi 83, 90133 PALERMO, Italy
a Histochemistry and ultrastructure of oogenesis and embryology. (Ascidiacea) (with V. MANCUSO and G. DOLCEMASCOLO)

GIANNELLI, F. B.; M.D., Ph.D. – Paediat. Res. Unit, Guy's Hosp. Med. Sch., Guy's Tower, LONDON SE1 9RT, England
a Somatic cell fusion, especially in metabolic disorders. Homo sapiens (Primates)
b DNA repair systems. Same species as a

GIANNETTI, A.; M.D. – Dept. of Dermatol., Univ. of Pavia, Policlinico S. Matteo – P.le Golgi, 27100 PAVIA, Italy
a Pathology of immune response during development. Homo sapiens (Primates)

GIESE, K.; Dr.phil.II – Zool. Inst. der Univ., Lehrst. für spez. Zool., Hüfferstr. 1, 4400 MÜNSTER/Westf., B.R.D. (Germany)
a Morphology and histology of intracapsular development. Buccinum undatum (Gastropoda)
b Ultrastructure of the larval kidney. Same species as a

GIHR, Ms. M.; Dr.phil. – Brain Anat. Inst., Untere Zollgasse 71, (Waldau), 3072 OSTERMUNDIGEN-BE, Switzerland
a Anatomical and statistical study of early development. Esox lucius (Teleostei)
b Descriptive and comparative ontogenesis of the brain. (Cetacea)
c General ontogenesis. Platanista gangetica, Pontoporia blainvillei (Platanistoidea, Cetacea)

GILBERT, A. B.; Ph.D. – Poultry Res. Ctr., Agric. Res. Counc., King's Bldgs., West Mains Rd., EDINBURGH EH9 3JS, Scotland, U.K.
a Yolk transport mechanism in ovarian follicle. Gallus domesticus (Aves)

GINSBURG, Ms. A. S.; Dr.biol. – Inst. of Developm. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.
a Sperm ultrastructure and acrosome reaction. Acipenser stellatus, A. güldenstädti (Chondrostei)
b Development of the capacity for the cortical reaction during egg maturation. Same species as a, and Misgurnus fossilis (Teleostei)

GINSBURGER-VOGEL, T.; Agr. – Lab. de Génét. Evolut. et de Biomét., C.N.R.S., 91190 GIF-sur-YVETTE, France

GINTER, E. K.; Dr. – Lab. of Exp. Genet., Inst. of Med. Genet., Kashirskoye Chaussee 6a, 115478 MOSCOW, U.S.S.R.

GIOLITTI, G.; Prof. – Ist. di Biol. Gen., Univ. di Roma, Policlinico Umberto I, 00100 ROMA, Italy
a Effect of chloro-organic solvents on embryos. Xenopus laevis (Anura)
GIORGI, F.; Dr.Biol. – Inst. of Histol. and Embryol., Univ. of Pisa, Via A. Volta 4, 56100 PISA, Italy
a Yolk formation and the Golgi apparatus in oogenesis. Drosophila melanogaster (Diptera)
b Vitellogenesis. Same species as a and various spp. (Urodela)
c Immunochemical characterization of yolk precursors in blood and their role in the formation of yolk spheres in oocytes. Triturus cristatus (Urodela)
d Attempt to isolate alpha-2 spheres from laid eggs and their biochemical characterization and comparison with yolk platelets formed during vitellogenesis. Same species as a
GIPOULOUX, J. D.; Dr., Prof. – Lab. de Biol. Anim. A, Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE Cedex, France
a Étude expérimentale de la morphogenèse de l'appareil génital. (Anura)
b Évolution des cellules germinales. (Anura)
c Étude de l'ultrastructure embryonnaire. (Anura)
d Étude expérimentale des facteurs de la migration des cellules du blastème de l'uretère primaire. Rana spec., Bufo bufo, Discoglossus spec., Xenopus spec. (Anura)
GIRARD (DECHAMBE), Ms. C.; Dr.biol.anim. – Lab. de Biol. Anim. A, Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE Cedex, France
a Modalités et facteurs de formation de l'ostium et de l'oviducte. (Anura)
b Modalités de la métamorphose de l'appareil excréteur. Rana dalmatina, Bufo bufo (Anura)
c Modalité de formation des glandes épidermiques in vivo et in vitro durant la métamorphose. Alytes obstetricans (Anura)
d Incompatibilités cellulaires et tissulaires chez les embryons. (Anura)
GIROUD, Ms. F.; M.Sc. – Lab. de Zool. et Biol. Anim., Univ. Sci. et Méd. de Grenoble, B.P. 53, Centre de Tri, 38041 GRENOBLE Cedex, France
a Effect of thyroxine on cell proliferation in embryo and larva. Pleurodeles waltl (Urodela)
GIUDICE, G.; M.D., Prof. – Ist. di Anat. Comp., Univ. di Palermo, Via Archirafi 20, 90123 PALERMO, Italy
a Protein and RNA synthesis during early development. Paracentrotus lividus (Echinoidea)
b "Capping" of RNA. Same species as a
c Giant RNA in the cytoplasm of embryos. Same species as a
GLAS, P.; Ph.D. – Dept. of Anat. and Embryol., State Univ. of Groningen, Oostersingel 69, GRONINGEN, Netherlands
a Fusion of the septal walls of the fissure longitudinalis cerebri in the telencephalon and the contribution of commissure hippocampi and corpus callosum to this process. Mus musculus (Rodentia)
GLÄTZER, K. H.; Dr.rer.nat. – Inst. für Allgem. Biol., Univ. Düsseldorf, Universitätsstr. 1, Gebäude 26.02, Ebene 2, 4000 DÜSSELDORF, B.R.D. (Germany)
a Gene physiology, Y chromosome. Drosophila spp. (Diptera)
b Genetic regulation of differentiation; male germ line cells. Same species as a
GLENISTER, T. W.; D.Sc., Ph.D., Prof. – Dept. of Anat., Charing Cross Hosp. Med. School, Lab. Block, Fulham Palace Road, LONDON W6 8RF, England
a Reaction of genital tract tissues to hormones in vitro. (Rodentia; Lagomorpha; Primates)
b Blastocyst implantation in vitro. Same species as a
c Behaviour of trophoblasts in vitro. Same species as a
d Development of embryos in vitro. Same species as a
e Ultrastructure of embryo-maternal relationships during implantation. Same species as a
GLINZ, Ms. S.; Dipl.nat. – Zool.Vergl. Anat. Inst., Univ. Zürich, Künstlergasse 16, 8006 ZÜRICH, Switzerland
a Ultrastructure of imaginal disc cells. Drosophila melanogaster (Diptera)
GODET (NONNENMACHER), Ms. J. – Dépt. de Biol. Gén. et Appl., Univ. de Lyon I, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France
a Erythrocyte differentiation. Gallus domesticus (Aves)
b Genetic factors in hemoglobin synthesis. Homo sapiens (Primates)
GODULA, J.; M.Sc. – Zool. Dept., Jagellonian Univ., ul. Krupnicza 50, KRAKÓW 2, Poland
a Differentiation of germ cells in early oogenesis (quantitative and stereological analysis). Tetrodontophora bielanensis (Collembola)
GOLICHENKOV, V. A.; Cand.sci. – Chair of Embryol., Biol. Fac., State Univ. of Moscow, Lenin Hills, MOSCOW 117234, U.S.S.R.
a Development of dermal melanophores, their structure, biochemistry, physiological regulatory mechanisms, and behaviour. Rana temporaria, Xenopus laevis (Anura)
GOLINSKA, Ms. K.; Dr.nat.sci. – Dept. of Cell Biol., M. Nencki Inst. of Exper. Biol., Polish Acad. of Sci., Pasteur St. 3, 02-093 WARSZAWA, Poland
a Course of shape regulation ("French-Flag" type): microsurgery, morphometry, electron and light microscopy, and the effect of high temperature and some inhibitors of protein synthesis (puromycin, cycloheximide) thereon. Dileptus anser, D. cygnus (Ciliata)
GOMOT, L.; D.Sc., Prof. – Lab. de Zool. et Embryol., Univ. de Besançon, place Maréchal Leclerc, 25030 BESANÇON Cedex, France
a Développement embryonnaire de la glande uropygienne. Anas platyrhynchos (Aves) (avec J. BRIDE)
b Différenciation sexuelle des hybrides femelles. (Aves) (avec A. DERAY)
c Organogenèse de la glande mammaire (culture in vitro). Mus musculus (Rodentia), Oryctolagus cuniculus (Lagomorpha) (avec A. BIÉTRY et C. COLARD)

d Fonctionnement de l'appareil génital (culture d'organes). Helix aspersa (Gastropoda)
e Le développement in vivo et in vitro du coeur. Rana temporaria, Xenopus laevis (Anura) (avec M. BRIDE-VUILLET)
f Histophysiologie des testicules et de l'hypophyse des hybrides intergénériques stériles comparée à celle des canards fertiles. Cairina moschata, Anas platyrhynchos (Aves) (avec C. R. MARCHAND)
g Déterminisme de la sexualité. Viviparus viviparus (Gastropoda) (avec B. GRIFFOND)

GONCHAROV, B. F.; Cand.biol.sci. – Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.
a Changes of physiological state of follicles during oogenesis and mechanism of hormonal induction of oocyte maturation. Acipenser stellatus, A. güldenstädti (Chondrostei), Rana temporaria, Bufo bufo (Anura)

GOSHCHETELIANI, I. S.; Cand.biol.sci. – Lab. of Exp. Zool., State Univ. of Tbilisi, KUTAISI, Georgian S.S.R., U.S.S.R.

GOSWAMI, M. N. D.; Ph.D. – Lab. de Physio-Pathol. Cell., Inst. Gustave-Roussy, 16bis Av. P. Vaillant-Couturier, 94 VILLEJUIF, France
a Developmental regulation of genetic expression: mechanism of protein synthesis and its control in the liver. Rattus spec. (Rodentia), Oryctolagus cuniculus (Lagomorpha)
b Genetic transcription and translation of the transcribed messages as affected by hormones. Rattus spec. (Rodentia)

GÖTTING, K. J.; Dr.rer.nat., Prof. – I.Zool. Inst., Fachber. Biol., Univ. Giessen, Stephanstr. 24, 63 GIESSEN, B.R.D. (Germany)
a Electron microscopy of oogenesis in marine forms. (Teleostei)
b Viviparity. Zoarces viviparus (Teleostei)

GOTZOS-CAPPELLI, Ms. B.; Dr.biol. – Inst. d'Histol. et d'Embryol. Gén., Univ. de Fribourg, Pérolles, 1700 FRIBOURG, Switzerland
a Cytoplasmic DNA synthesis in fibroblasts cultivated in vitro. Gallus domesticus (Aves)

GOTZOS, V.; Dr.Vet. – Inst. d'Histol. et d'Embryol. Gén., Univ. de Fribourg, Pérolles, 1700 FRIBOURG, Switzerland
a 1. Culture of embryonic fibroblasts; 2. culture of macrophages; 3. cell proliferation in vitro; 4. cytoplasmic DNA and its role in the cell cycle. Gallus domesticus (Aves), Homo sapiens (Primates)

GOUNON, P.; Dr.3è cycle – Lab. d'Embryol. Exp., Centre de Rech. du CNRS, 67 rue Maurice Günsbourg, 94200 IVRY-sur-SEINE, France
a L'expression des gènes léthaux: "léthal-mitotique" et "ulcère" (microchirurgie, cytologie ultrastructurale, analyse biochimique des protéines microtubulaires). Pleurodeles waltl (Urodela)

GOVAERE, Ms. M. C.; Dr.3e Cycle – Lab. d'Embryol., Univ. Paris VI, 4 place Jussieu, 75230 PARIS Cedex 05, France

GRAHAM, C. F.; D.Phil. – Dept. of Zool., Univ. of Oxford, South Parks Rd., OXFORD OX1 3PS, England
a Experimental parthenogenesis. Mus musculus (Rodentia)
b Development of teratomas in vitro. Mus musculus (Rodentia), Homo sapiens (Primates)
c Differentiation of teratoma cells in vitro. Same species as b

GRAZIOSI, G.; D.Sc. – Inst. of Zool. and Comp. Anat., Univ. of Trieste, via A. Valerio 32, 34127 TRIESTE, Italy
a Biochemistry of germ cell determination and body pattern formation in early embryos. Drosophila melanogaster (Diptera)
b Antigens and protein analysis of embryological mutants. Same species as a

GRIBNAU, Ms. A. A. M.; Dr. – Dept. of Anat. and Embryol., Cathol. Univ., Geert Grooteplein N.21, NIJMEGEN, Netherlands.
a Development of the prosencephalon. Macaca mulatta (Primates)

GRIFFOND (ROGNON), Ms. B.; Lic.ès.Sci. – Lab.de Zool. et Embryol., Univ. de Besançon, Place Maréchal Leclerc, 25030 BESANÇON Cedex, France
a Déterminisme de la sexualité. Viviparus viviparus (Gastropoda) (avec L. GOMOT)

GRIGNON, G.; Prof. – Lab. de Biol. Méd., Univ. de Nancy I, B.P. 1080, 54019 NANCY Cedex, France
a Maturation du complexe hypothalamo-hypophysaire. Gallus domesticus (Aves), Rattus norvegicus (Rodentia)
b Différenciation du tube séminifère. Rattus norvegicus (Rodentia)

GRIM, M.; MUDr. – Dept. of Anat., Charles Univ., U nemocnice 3, 12800 PRAHA 2, Czechoslovakia
a Prenatal development of muscles. Ambystoma mexicanum (Amphibia), Gallus domesticus (Aves), Homo sapiens (Primates)

GRIPPO, P. – Lab. of Molec. Embryol., Consiglio Naz. delle Ricerche, Via Toiano 2, ARCO FELICE, C.P. 3042, 80100 NAPOLI, Italy
a Enzymes of DNA metabolism during oogenesis. Xenopus laevis (Anura)

GRODZIŃSKI, Z.; D.Sc., Prof. (Emer.) – Dept. of Comp. Anat., Jagellonian Univ., ul. Krupnicza 50, 30–060 KRAKÓW, Poland
a Ultrastructure and some physico-chemical properties of yolk platelets. Sphenodon punctatus (Rhynchocephalia, Reptilia)

GROENENDIJK (HUIJBERS), Ms. M. M.; M.D., D.Sc. – Dept. of Med. Anat. and Embryol., State Univ. of Utrecht, Janskerkhof 3A, UTRECHT, Netherlands
a Müllerian duct inhibiting capability of young testes, after administration of cyproterone-acetate or estradiolbenzoate, as studied by implantation in 4-day old female embryos. Gallus domesticus (Aves)
b Hormonal dependency of down feather pigmentation (castration, pituitary implantation,

modification of thyroid hormone levels, administration of drugs (alpha-MSH etc.)). Same species as a

GROSCURTH, P.; M.D. – Div. of Cell Biol., Dept. of Anat., Univ. of Zürich, Gloriastr. 19, 8006 ZÜRICH, Switzerland

a Pre- and postnatal development of the thymo-lymphatic system and the endocrine organs (light- and electron microscopy). Mus musculus (esp. mutant "nude"). (Rodentia), Homo sapiens (Primates)

b Viral induced embryo- and fetopathy (morphology, virology and immunology). Mus musculus and others (Rodentia), Homo sapiens (Primates)

GRÜN, G.; Dr. – Lehrst. für Spez. Zool., Ruhr-Univ., Universitätsstr. 150, 4630 BOCHUM, B.R.D. (Germany)

a Ultrastructure and histochemistry of the differentiating retina. Tilapia spec. (Teleostei)

b Role of light in synaptic and axon terminal development in the retina. Same species as a

GRUNZ, H.; Dr.rer.nat. – Inst. für Molec. Biol. und Biochem., Fachber. 1 (Vorklinik), Freie Univ., Arnimallee 22, 1000 BERLIN 33, B.R.D. (Germany)

a Changes of cell affinity and cell membranes after early embryonic induction. Triturus alpestris, Ambystoma mexicanum (Urodela)

b Mode of action of morphogenetic factors. Xenopus laevis (Anura), Triturus alpestris (Urodela)

GRYGOŃ-GOSTKIEWICZ, Ms. B.; Dr.biol. – Dept. of Zool., Inst. of Biol., Univ. of N.Copernicus, Gagarina 9, 87–100 TORUŃ, Poland

a Experimental developmental morphology of gonads in organ and cell culture. Cepaea spp. (Gastropoda)

GUARDABASSI, Ms. A.; Dr.nat.sci., Prof. – Inst. of Histol. and Embryol., Univ. of Torino, via Giolitti 34, 10123 TORINO, Italy

a Stabilising action of prolactin on lysosomal membranes; acid phosphatase activity in tail tips at metamorphosis. Xenopus laevis (Anura)

GUASTALLA, Ms. A.; Dr. – Inst. of Histol. and Embryol., Univ. of Torino, via Giolitti 34, 10123 TORINO, Italy

a Hypothalamic control of thyroid activity before metamorphosis (131I, chromatography, partial brain extirpation). Bufo bufo (Anura)

GUEDENET, J. C.; Ing. – Lab. de Biol. Méd., Univ. de Nancy I, B.P. 1080, 54019 NANCY Cedex, France

a Développement du complexe hypothalamo-hypophysaire. Gallus domesticus (Aves), Rattus norvegicus (Rodentia)

b Cytologie du spermatozoide. Homo sapiens (Primates)

GUERRE-MILLO, Ms. M. – Lab. de Biol. de la Reprod., Univ. Paris VI (P. et M. Curie), Bât. A, 7e étage, 7 quai Saint-Bernard, 75230 PARIS Cedex 05, France

a Placental transfer in vitro of anxiolytics and water soluble substances of different molecular weight. Homo sapiens (Primates)

GUERRIER, P. C.; D.Sc. – Stat. Biologique, place Georges-Teissier, 29211 ROSCOFF, France

a Epigenesis of axial patterns during early development: intracellular activation and intercellular relations (microsurgery, isotope labeling). Dentalium spec. (Scaphopoda), Patella spec. (Gastropoda), Sabellaria spec. (Polychaeta)

b Morphogenetic significance of changes in membrane properties during meiosis and early development. Asterias spec., Sphaerechinus spec. (Echinodermata), Sabellaria spec. (Polychaeta), Xenopus laevis (Anura)

c Hormonal control of meiosis reinitiation, cellular and biochemical aspects. Xenopus laevis (Anura), Marthasterias glacialis (Asteroidea)

d Control of early embryogenesis. Sphaerechinus granularis (Echinoidea), Dentalium entale, Patella vulgata (Mollusca)

GUIET, Ms. A. BARA – Lab. de Biol. de la Reprod., Univ. Paris VI (P. et M. Curie), Bât. A, 7ème étage, 7 quai Saint-Bernard, 75230 PARIS Cedex 05, France

a Consommation et diffusion d'oxygène et action d'inhibiteurs enzymatiques de respiration dans les lobules placentaires in vitro. Homo sapiens (Primates)

GUIGNARD, J.-L.; Prof. – Lab. de Bot., Fac. de Pharm. de Paris-Sud, rue J. B. Clément, 92290 CHÂTENAY-MALABRY, France

a Differentiation of embryoids. Lychnis dioica (Caryophyllaceae), Cheiranthus cherii (Cruciferae)

GUILLEMIN, Ms. C.; Dr.3e cycle – Lab. d'Embryol., Univ. Paris VI, 4 place Jussieu, 75230 PARIS Cedex 05, France

GUILLEMONAT, Ms. N.; Dr.spéc. – Lab. de Morphogen. Végét., Univ. d'Aix-Marseille III, Fac. St-Jérôme, rue Henri Poincaré, 13397 MARSEILLE Cedex 4, France

a Root morphogenesis (experiments with "minirhizotrons"): 1. regeneration, variations; 2. geotropism control. Quercus ilex (Fagaceae)

GUILLERMET, Ms. C.; M.Sc. – Lab. de Zool. et Biol. Anim., Univ. Sci. et Méd. de Grenoble, B.P. 53, Centre de Tri, 38041 GRENOBLE Cedex, France

a Evagination and cell differentiation of imaginal discs in vitro. Drosophila melanogaster (Diptera)

GUILLET, C.; Dr.spéc. – Dépt. de Biol. Gén. et Appl., Univ. de Lyon I, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France

GUILLET (BERNARD), Ms. F.; Dr.3e Cycle – Lab. de Biol. Anim., Univ. Paris VI (P. et M. Curie), 4 place Jussieu, 75230 PARIS Cedex 05, France

a Multiple forms of isoenzyme systems during ontogenesis. Pleurodeles waltl, P. poireti (Urodela)

GUIRAO-PEREZ, M.; Med. Dr., Prof. – Inst. F. Olóriz, Fac. of Med., Univ. of Granada, GRANADA, Spain

a Brain damage in perinatal hypoxia and behavioural consequences. Gallus gallus (Aves), Homo sapiens (Primates)
b Germinal structures of developing brain. Same species as a

GULAMHUSEIN, A. P.; Ph.D. – Dept. of Anat., Univ. of Leicester, University Rd., LEICESTER LE1 7RH, England
a Reproduction, especially delayed implantation: 1. light and electron microscopy of the blastocyst and uterine epithelium; 2. histochemistry of the reproductive tract. Mustela erminea (Carnivora)
b Reciprocal insemination and embryo transfer between Putorius p. furo and Mustela erminea (Carnivora)
c External and internal development of the embryo. Putorius p. furo (Carnivora)
d Placental transfer mechanisms. Same species as c

GULLUNI CUOMO, Ms. M.; Dr. – Ist. di Biol. Gen., Fac. di Med., Univ. di Roma, Policlinico Umberto I, 00100 ROMA, Italy
a Effects of gravity acceleration during growth of primary root. Vicia faba (Papilionaceae)
b Effects of l-asparaginase, strychnin, and veratrum during embryonic development. Rana esculenta, Bufo vulgaris (Anura)
c Effect of food dyes on embryos. Xenopus laevis (Anura)

GUMPEL (PINOT), Ms. M.; D.Sc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49 bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Rapports mésenchyme axial – mésenchyme latéral dans l'organogenèse du membre. Gallus gallus (Aves)
b Organogenèse du rein. Gallus gallus, Coturnix c. japonica (Aves) (avec Y. CROISILLE)
c Relations ecto-mésodermiques dans la différenciation du cartilage de membre. Même espèce comme a
d Involution du mésonephros et différenciation de l'epididyme (immunohistologie). Même espèce comme a (avec Y. CROISILLE et J. M. GASC)

GURDON, J. B.; D.Phil. – Lab. of Molec. Biol., Med. Res. Counc., Hills Rd., CAMBRIDGE CB2 2QH, England
a Gene expression in early development. (Amphibia)

GUREEVA-PREOBRAZHENSKAYA, Ms. E. V. – Lab. of Exp. Ichthyol., Biol. Inst., Leningrad State Univ., Stary Peterhof, LENINGRAD 198904, U.S.S.R.
a Effect of X-irradiation on gametogenesis. (Chondrostei; Teleostei)

GUSTAFSON, T.; Fil.Dr., Prof. – Wenner-Gren Inst., Norrtullsgatan 16, 113 45 STOCKHOLM, Sweden
a Control of morphogenetic movements and of larval muscular and ciliar activity by acetylcholine and serotonin; graded variation of sensor, pacemaker, conductive and contractile activities along the animal-vegetal axis and its relation to behaviour. Psammechinus miliaris (Echinoidea)

GUYOT-LENFANT, Ms. M.; Dr.3e Cycle – Lab. de Biol. du Dévl., Univ. Paris V (René Descartes), 45 rue des Sts. Pères, 75270 PARIS Cedex 06, France
a Ultrastructure of egg and embryo. (Amphibia)

GYÉVAI (TÓTH), Ms. A. T.; Morphol. Dept., Inst. of Exper. Med., Hung. Acad. of Sci., Szigony u. 43, P.O.B. 67, BUDAPEST 1083, Hungary
a Fine structure and hormonal activity of intact and cultured embryonic adrenal cells of different species. Felis domestica (Carnivora), Rattus spec. (Rodentia), Homo sapiens (Primates)
b Fine structure and hormonal activity of cultured embryonic hypophysis. Homo sapiens (Primates)
c Ultrastructure and hormonal activity of cultured embryonic hypothalamus. Rattus spec. (Rodentia)

HAARLEM, R. van – Dept. of Zool., Cathol. Univ., Toernooiveld, NIJMEGEN, Netherlands
a Cell migration and pattern formation during early development. Nothobranchius spp. (Teleostei)

HABROVÁ (VILÍMKOVÁ), Ms. V.; RNDr. – Dept. of Exp. Zool., Charles Univ., Viničná 7, 12844 PRAHA 2, Czechoslovakia
a Nucleic acids and subcellular particles in oogenesis and early development. (Amphibia) (with J. NEDVÍDEK)

HACCIUS, Ms. B.; Dr., Prof. – Inst. für spez. Bot. und Bot. Garten, Univ., 65 MAINZ, B.R.D. (Germany)
a Adventitious buds or somatogenic embryos from in vitro cultivated tissues. Paeonia spp. (Ranunculaceae)
b Adventitious embryos from cultivated ovules. (Angiospermae)
c Phenocopying effects of phenylboric acid. (Angiospermae)

HACH, P.; M.D. – Inst. of Embryol., Charles Univ., Albertov 4, 128 00 PRAHA 2, Czechoslovakia
a Peri- and postnatal differentiation of rough endoplasmic reticulum in acinar pancreatic cells (ratio free: bounded ribosomes). Rattus rattus (Rodentia)
b Differentiation and development of pigment granules and melanocytes in normal tissue and in tumours of different origin (incl. biochemistry). Rana esculenta (Anura), Mus musculus (Rodentia), Homo sapiens (Primates)
c Migration and differentiation of neural crest cells after heterotopic and heterochronic transplantation. Gallus domesticus, Coturnix c. japonica (Aves)

HAFFEN (STENGER), Ms. K. E.; D.Sc. – Unité de Rech. No. 61, INSERM, Av. Molière, 67200 STRASBOURG/Hautepierre, France
a Enzymic differentiation during intestinal development. (Rodentia)

HAGELIN,L.-O.; Dr. – Dept. of Zool., Univ. of Stockholm, Box 6801, 113 86 STOCKHOLM, Sweden

a Embryology of the membraneous labyrinth. Lampetra fluviatilis, L. planeri, Petromyzon marinus (Cyclostomata)

HAGENMAIER, H. E.; Dr.rer.nat. – Inst. für Zool., Rhein-Westf.-Techn. Hochschule, Kopernikusstr. 16, 51 AACHEN, B.R.D. (Germany)

a Biochemistry of hatching. Salmo trutta, S. gairdneri (Teleostei)

b Structure and chemistry of the chorion. Salmo gairdneri, Perca fluviatilis (Teleostei)

HAGET, A.; D.Sc., Prof. – Lab. de Zool. Exp., Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE, France

a Development of surface membrane during cleavage. Leptinotarsa spec. (Coleoptera)

HAGSTRÖM, B. E.; Fil.Dr. – Dept. of Pharmacol. and Toxicol., AB KABI, 104 25 STOCKHOLM 30, Sweden

HAHNENKAMP, L. – Inst. Allg. Zool. und Exp. Morphol., Freie Univ., Kön.-Luise Str. 1–3, 1 BERLIN 33, B.R.D. (Germany)

a Formation and differentiation of the post-naupliar germ band. Ligia oceanica (Isopoda, Crustacea)

HAKIM, Ms. J.; Dr.biol. – Lab. de Biol. Anim. A, Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE Cedex, France

a Les potentialités morphogènes du mésoderme latéral. Xenopus spec. (Anura), Pleurodeles waltl (Urodela)

HALFER, Ms. C. – Ist. di Genet., Univ. di Milano, via Celoria 10, 20133 MILANO, Italy

a DNA replication in cells cultured in vitro. Drosophila melanogaster (Diptera)

b Biology of established cell lines. Same species as a

c Fusion of cells from caryotypically different established cell lines. Same species as a

HAMBURGER, K.; Cand.mag. – Biol. Inst., Carlsberg Found., 16 Tagensvej, 2200 COPENHAGEN N, Denmark

HAMES, B. D.; Ph.D. – Biol. Dept., Univ. of Essex, Wivenhoe Park, COLCHESTER, Essex CO4 3SQ, England

a Mechanisms of translational control during development. Dictyostelium discoideum (Acrasiales)

HAMILTON, Ms. L.; Ph.D. – Dept. of Biol. as Appl. to Med., Middlesex Hosp. Med. School, Cleveland St., LONDON W1P 6DB, England

a Haploid syndrome. Xenopus spp. (Anura)

b Radiation sensitivity of haploid and diploid embryos. Xenopus laevis (Anura)

c Haploid and diploid tissues (electron microscopy). Same species as b

HAMILTON, W. J.; † Prof. – NORTHWOOD, Middlesex, England

HÄMMERLING, J.; Dr.phil., Prof. (Emer.) – Schopenhauerstr. 27, 2940 WILHELMSHAVEN, B.R.D. (Germany)

HAMMOND, J. B. W.; D.Phil. – Glasshouse Crops Res. Inst., Worthing Rd., LITTLEHAMPTON BN16 3PU, England

a The relationship of changes in levels of enzymes of carbohydrate metabolism and metabolic pathways to changes in carbohydrate levels and growth rate during the development of the sporophore. Agaricus bisporus (Basidiomycetes, Fungi)

b Physiological role of soluble carbohydrates in the developing sporophore. Same species as a

HANKE, W.; Dr., Prof. – Zool. Inst. II der Univ., Kaiserstr. 12, 75 KARLSRUHE 1, B.R.D. (Germany)

a Influence of hormones on skin. Rana temporaria (Anura), Mus musculus (Rodentia)

b Effects of adrenocortical hormones. Anguilla anguilla (Teleostei), Ambystoma spec. (Urodela), Rana temporaria, Xenopus laevis (Anura)

c Development of endocrine tissue. Ambystoma spec. (Urodela), Xenopus laevis (Anura)

d Influence of hormones on metamorphosis; effects of different hormones depending on the stage of development. Same species as c

HANOCQ, Ms. F. A.; Lic.Sc.Zool. – Dept. of Molec. Biol., Free Univ. of Brussels, 67 rue des Chevaux, 1640 RHODE-ST-GENÈSE, Belgium

a Regulation of rDNA transcription in oocytes and eggs. Xenopus laevis (Anura)

HANOCQ (QUERTIER), Ms. J. A.; D.Sc.Biol. – Dept. of Molec. Biol., Free University of Brussels, 67 rue des Chevaux, 1640 RHODE-ST.-GENÈSE, Belgium

a Mechanisms of in vitro maturation. Xenopus laevis (Anura)

HANSEN-DELKESKAMP, Ms. E.; Dr. – Fachber. Biol., Univ. Regensburg, Postfach 397, 84 REGENSBURG 2, B.R.D. (Germany)

a Early differentiation: 1. enzyme regulation and metabolic pathways; 2. DNA-binding proteins. Acheta domesticus (Orthoptera)

HARA, K.; Ph.D. – Hubrecht Lab. (Intern. Embryol. Inst.), Uppsalalaan 8, 3584 CT UTRECHT, Netherlands

a Origin of dorso-ventral polarity of the egg (microcinematography). Discoglossus pictus, Xenopus laevis (Anura) (with P. D. NIEUWKOOP and G. A. UBBELS)

b Analysis of dorso-ventral and cranio-caudal polarity in mesoderm induction (blastomere recombination, microcinematography). Ambystoma mexicanum (Urodela) (with P. D. NIEUWKOOP and E. C. BOTERENBROOD)

HARDIE, J.; Ph.D. – Dept. of Zool. and Appl. Entomol., Imperial Coll., Field Station, Silwood Park, ASCOT, Berks. SL5 7DE, England

a Nervous and hormonal factors regulating polymorphism; electron microscopy of neuroendocrine system. Megoura viciae (Homoptera)

HARREBOMÉE, Ms. A. E.; M.D. – Div. of Exper. Morphol., Anat.-Embryol. Inst., Univ. of Amsterdam, Mauritskade 61, AMSTERDAM-O., Netherlands

a Differentiation and de-differentiation during regeneration. (Urodela)

b Development of neural crest derivatives. Gallus domesticus (Aves)

HARRIS, J. W. S.; Ph.D., Prof. – Dept. of Anat., Royal Free Hosp. Sch. of Med., 8 Hunter St., LONDON WC1N 1BP, England

a Morphogenesis of nose and palate. Mus musculus, Rattus spec., Mesocricetus auratus (Rodentia), Homo sapiens (Primates)

b Effect of trophoblast on uteroplacental blood vessels. Mesocricetus auratus (Rodentia), Homo sapiens (Primates)

HARRISON, P. R.; Ph.D. – Beatson Inst. for Canc. Res., Royal Beatson Mem. Hosp., 132 Hill St., GLASGOW G3 6UD, Scotland, U.K.

HARRISON, R. G.; D.M., Prof. – Dept. of Anat., Univ. of Liverpool, P.O. Box 147, LIVERPOOL L69 3BX, England

a Factors influencing the process of spermatogenesis. Rattus norvegicus, Gerbillinae (Rodentia), Homo sapiens (Primates)

HARRISON, R. J.; M.D., D.Sc., F.R.S., Prof. – Anat. School, Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3DY, England

a Reproduction, gonads, placenta, endocrine organs. Phoca spec., (Pinnipedia), Tursiops spec., Delphinus spec. (Cetacea)

HARRISSON, F. – Lab. of Anat. and Embryol., State Univ. Ctr., Groenenborgerlaan 171, 2020 ANTWERPEN, Belgium

a Biogenic amines in the hypothalamo-hypophyseal system, especially ontogenesis. (Aves; Mammalia)

b Role of neural crest cells in embryogenesis, possible neural crest origin of APUD-cells. (Aves; Mammalia)

HARRY, Ms. E. – Lab. de Biol. Cell., Fac. de Pharm., Univ. Paris-Sud, 22 rue J. B. Clément, 92290 CHÂTENAY-MALABRY, France

a Cellular differentiation in callus cultures; embryoid differentiation. (Angiospermae)

HARTE, Ms. C.; Dr., Prof. – Inst. für Entw. physiol., Univ. Köln, Gyrhofstr. 17, 5 KÖLN 41, B.R.D. (Germany)

a Interactions between genes and environment in controlling morphogenesis of leaves. Antirrhinum majus (Scrophulariaceae)

b Growth of callus and differentiation in tissue cultures of different mutants. Oenothera hookeri (Onagraceae), Antirrhinum majus (Schrophulariaceae)

c Models for mitosis in cell populations. (with A. LINDENMAYER, Univ. of Utrecht)

HARTMANN, R.; Dr.rer.nat. – Zool. Inst. der Univ., Weyertal 119, 5000 KÖLN 41, B.R.D. (Germany)

a Light and electron microscopy of spermatheca development in connection with endocrine ablations. Gomphocerus rufus, Schistocerca gregaria (Acridinae, Orthoptera)

HARTWIG, H.; Dr.phil., Prof. – Zool. Inst. der Univ., Weyertal 119, 5 KÖLN 41, B.R.D. (Germany)

a Wirkungsmechanismus von Schilddrüsenhormonen. Salamandra spec., Triturus spec., Ambystoma spec. (Urodela)

b Epithelcysten. Same species as a

c Geweihbildung. Capreolus capreolus (Artiodactyla)

HAŠEK, M.; M.D. – Dept. of Exp. Biol. and Genet., Inst. of Biol., Czech. Acad. of Sci., Flemmingovo nám. 2, PRAHA 6, Czechoslovakia

HATIER (AUTELIN), Ms. R.; D.Sc. – Lab. de Biol. Méd., Univ. de Nancy I, B.P. 1080, 54019 NANCY Cedex, France

a Différenciation des tubes séminifères. Rattus norvegicus (Rodentia)

HAUENSCHILD, C.; Dr.rer.nat., Prof. – Zool. Inst. der Tech. Univ., Pockelstr. 10a, 3300 BRAUNSCHWEIG, B.R.D. (Germany)

a Reproduction, sex differentiation, endocrinology, and periodicity. Platynereis spec., Syllis spec. and other spp. (Polychaeta)

b Endocrinology of stolonisation and sex differentiation. Syllis prolifera (Polychaeta)

HAUSER, R. F.; Ph.D., Prof. – Div. of Cell and Developm. Biol., Zool. Inst., Univ. of Bern, Sahlist. 8, 3012 BERN, Switzerland

a The role of the subcommissural organ in normal development and regeneration of axial structures. Xenopus laevis (Anura), various spp. (Vertebrata)

HAY, Ms. M. F.; Dr. – A.R.C. Unit of Reprod. Physiol. and Biochem., Anim. Res. Stat., 307 Huntingdon Rd., CAMBRIDGE CB3 0JQ, England

HEATH, J. P.; M.Sc. – Strangeways Res. Lab., Worts Causeway, CAMBRIDGE CB1 4RN, England

a Cell relations in tissue culture. Gallus gallus (Aves), Mus musculus (Rodentia) with M. ABERCROMBIE and G. A. DUNN)

HEAYSMAN, Ms. J. E. M. WAKELING; Ph.D. – Dept. of Zool., Univ. Coll. London, Gower St., LONDON WC1E 6BT, England

a Cellular interaction in tissue culture

HEDLUND, K. O.; Fil.kand. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden

a Ultrastructure of differentiating embryonic ganglia. Gallus domesticus (Aves)

HEESEN, D. te; Dr. – Emschergenossenschaft, Kronprinzenstr. 24, 41 ESSEN, B.R.D. (Germany)

a Development of freshwater species as a test for pollution. (Teleostei)

b Female specificity of the yolk proteins and oestrogen induced vitellogenin synthesis in males. Brachydanio rerio (Teleostei)

c Immunology of exo- and endogenous yolk proteins. Same species as b and other spp. (Teleostei)

HEIMLER, – I. Zool. Inst. der Univ. Erlangen-Nürnberg, Universitätsstr. 19, 852 ERLANGEN, B.R.D. (Germany)

a Comparative embryology of coelom. Lanice conchilega (Polychaeta)

b Biology of trochophora and allied larvae, especially histology of sense organs (apical plate etc.). (Annelida and other Coelomata)

HEINE, H.; Dr.rer.nat.habil., Prof. – Anat. Inst. der Univ., Koellikerstr. 6, 87 WÜRZBURG, B.R.D. (Germany)

a Proteoglycans of the intercellular matrix in embryonic tissues, especially heart and vessels. (Mammalia)

HEIZMANN, C. W.; Ph.D. – Inst. of Cell Biol., Swiss Fed. Inst. of Technol., Hönggerberg, 8093 ZÜRICH, Switzerland

a Myofibrillar organellogenesis. Gallus domesticus (Aves), Rattus spec. (Rodentia)

HEIZMANN, P.; Dr.Ing. – Sect. de Biol. Génér. et Appl., Univ. de Lyon I, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France

a Structure and mutation of chloroplast DNA. Euglena gracilis (Euglenophyceae)

b Globin gene structure. Homo sapiens (Primates)

HELFENBEIN, L. L.; B.Sc. – Dept. of Biol., Kharkov State Univ., Dzerjinsky Square 4, KHARKOV, U.S.S.R.

HEMMINGS, W. A.; D.Sc. – Zool. Dept., Univ. Coll. of N. Wales, BANGOR, Caerns., Wales, U.K.

a Protein transport to the foetus. Oryctolagus cuniculus (Lagomorpha)

b Protein transport across the gut of suckling and mature animals. Rattus norvegicus (Rodentia)

c Transport of proteins and their degradation products of high molecular weight across the blood/brain, blood/milk and placental barrier. Same species as b

HENDELBERG, J.; Ph.D. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden

a Spermatogenesis. (Platyhelminthes)

HÉNOU, Ms. C.; Dr.3e cycle - Lab. de Biol. Anim., Univ. de Clermont, B.P. 45, 63170 AUBIÈRE, France

a Action du herbicide paraquat sur l'embryon. (Aves)

HERBERT, C. F.; Ph.D. – Dept. of Biol. Sci., Portsmouth Polytechnic, Park Rd., PORTSMOUTH PO1 2DY, England

a Gonadal cycle. Lacerta vivipara (Lacertilia)

HERMAN, Č.; D.Sc., Prof. – Inst. of Biol., Fac. of Med., Univ. of Zagreb, Šalata 3, P.O. Box 166, 41001 ZAGREB, Yugoslavia

a Genetic and environmental factors in development and foeto-placental complex. Rattus norvegicus (Rodentia) (with M. MÜLLER)

b Experimental teratology. Same species as a (with M. MÜLLER)

HERP, F. van; Ph.D. – Dept. of Zool., Cathol. Univ., Toernooiveld, NIJMEGEN, Netherlands

a Sensitivity of larval and juvenile stages to neurohumoral substances. (Decapoda, Crustacea)

b Development of the neurosecretory system. (Decapoda, Crustacea)

HERRMANN, K. – I.Zool. Inst. der Univ. Erlangen-Nürnberg, Universitätsstr. 19, 852 ERLANGEN, B.R.D. (Germany)

a Experimental analysis of metamorphosis. Actinotrocha spec. (Phoronidea), (Echinodermata)

HESS, O.; Dr.rer.nat., Prof. – Inst. für Allgem. Biol., Univ. Düsseldorf, Universitätsstr. 1, Gebäude 26.02, Ebene 2, 4000 DÜSSELDORF, B.R.D. (Germany)

a Experimental embryology. Bithynia tentaculata and other spp. (Gastropoda)

b Gene physiology, Y chromosome. Drosophila spp. (Diptera)

c Genetic regulation of differentiation; male germ line cells. Same species as b

HESZKY, L. E.; Dr. – Tissue Cult. Lab., Dept. of Physiol., Natl. Inst. for Agric. Variety Testing, 2766 TÁPIÓSZELE, Hungary

a Morphogenesis in callus and anther cultures; tissue and embryo differentiation from somatic cells: Papilionaceae, Datura spec., Daucus spec., Oryza spec., and haploid cells: Oryza spec., Zea mays, Hordeum spec., Triticum spec. (Angiospermae)

b Physiology of cell and tissue differentiation and somatic embryogenesis in callus cultures. Nicotiana tabacum, Daucus carota (Angiospermae)

c Cytogenetics of cultured somatic and haploid cells. Cultivated species (Angiospermae)

d Freeze preservation of cultured cells. Daucus spec., Nicotiana spec., Phaseolus spec., Trifolium spec. (Angiospermae)

HEWING, Ms. M.; Dr.med. – Anat. Inst., Abt. für Exper. Biol., Univ. Bonn, Nussallee 10, 5300 BONN, B.R.D. (Germany)

a Light and electron microscopy of the postnatal development of the pineal organ. Mesocricetus auratus (Rodentia)

HEWITT, W.; M.B., B.S. – Dept. of Anat., St. Thomas's Hosp. Med. School, LONDON SE1 7EH, England

a Development of the brain. Homo sapiens and other spp. (Mammalia)

HINCHLIFFE, J. R.; Ph.D. – Zool. Dept., Univ. Coll. of Wales, Penglais, ABERYSTWYTH SY23 3DA, Wales, U.K.

a Contribution of cell death to genesis of form in the limb: suppression and extension of necrosis in talpid3 and wingless mutants. Gallus domesticus (Aves)

b Autoradiography (35SO4 uptake) of emergence of chondrogenic pattern in the limb, and its significance for the evolution of lungfish paddle into amphibian limb. Ambystoma mexicanum (Urodela), Gallus domesticus (Aves)

c Ultrastructure of blastocyst implantation. Mus musculus (Rodentia)

HINRICHSEN, K.; Dr.med., Prof. – Lehrst. für Anat.I, Ruhr-Univ., Universitätsstr. 150, Postfach 102148, 4630 BOCHUM, B.R.D. (Germany)

a Myogenesis. Gallus domesticus (Aves), Mus musculus (Rodentia)

b Scanning electron microscopy of embryos. Homo sapiens (Primates)

HIRN, M.; Dr.spéc. – Ctr. d'Immunol. INSERM-CNRS de Marseille Luminy, 70 Rte L.Lachamp, 13288 MARSEILLE Cedex 2, France
HOARAU, F.; Dr.spéc. – Lab. de Morphogénét. Anim., Univ. de Provence – Centre St. Charles, Place Victor Hugo, 13331 MARSEILLE-Cedex 3, France
HOARE (STERN), Ms. M. S.; Ph.D. – Zool. Dept., Univ. Coll. of N. Wales, BANGOR, Caerns., Wales, U.K.
a Experimental studies in early mammalian embryos. Mus musculus, Rattus spec. (Rodentia)
HODDE, K. C.; Drs. – Netherl. Inst. for Brain Res., IJdijk 28, AMSTERDAM, Netherlands.
a Adaptability of the nervous system of adult organisms, compared with normal development. Rattus norvegicus (Rodentia), Homo sapiens (Primates)
HOFMAN, Ms. Lj.; D.Sc. – Inst. of Biol., Fac. of Med., Univ. of Zagreb, Šalata 3, P.O. Box 166, 41001 ZAGREB, Yugoslavia
a Early differentiation; transplantation, in vitro culture. Rattus norvegicus (Rodentia) (with N. ŠKREB)
HOFMANN, D. K.; Dr.rer.nat. – Inst. für Entw.physiol., Univ. zu Köln, Gyrhofstr. 17, 5 KÖLN 41, B.R.D. (Germany)
a Experimental study on endocrine control of caudal regeneration. Platynereis dumerilii (Polychaeta)
b General and experimental study of reproduction, development, and endocrinology. Eunice siciliensis (Polychaeta)
c Asexual reproduction and development. Cassiopeia andromeda (Scyphozoa)
HOHL, H. R.; Dr.sc.nat., Prof. – Cytol. Lab., Inst. of Plant Biol., Univ. of Zürich, Zollikerstr. 107, 8008 ZÜRICH, Switzerland
a Submicroscopic morphogenesis. Dictyostelium discoideum and other spp. (Acrasiales), Phytophthora parasitica and other spp. (Phycomycetes)
HØJAGER, Ms. B.; M.Sc. – Finsen Lab., Finsen Inst., 49 Strandboulevarden, 2100 COPENHAGEN Ø, Denmark
a Cell dynamics on granulosa cells from ovarian follicles. Mus musculus (Rodentia), Oryctolagus cuniculus (Lagomorpha)
HOLDEN, Ms. J. J.; Ph.D. – Inst. of Genet., Oxford Univ., OXFORD, England
HOLM, K. Å.; Ph.D., Prof. (Emer.) – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden
a Experimental embryology. (Araneida)
HOLT (SULEY), Ms. A. C. E.; Ph.D. – Dept. of Zool., Univ. of Reading, Whiteknights Park, READING RG6 2AJ, England
a Developmental genetics, especially of variegated phenotypes. Mesocricetus auratus (Rodentia)
HOORN, A. J. W.; Drs. – Dept. of Popul. and Evol. Biol., Genet. Inst., State Univ., Transitorium III, Padualaan 8, UTRECHT, Netherlands
HOPERSKAYA, Ms. O. A.; Cand.biol.sci. – Inst. of Devl. Biol., USSR Acad. of Sci., Vavilov St. 26, MOSCOW 117334, U.S.S.R.
a Accumulation and isolation of inductive substances from lens epithelial cells. Rana temporaria (Anura), Gallus domesticus (Aves) Homo sapiens (Primates)
b Mechanisms causing periodic albinism in mutation (ap) (developmental and electron microscopical studies). Xenopus laevis (Anura)
c Studies on stability of cell differentiation with the application of clonal cell cultures. Rana temporaria, Xenopus laevis (Anura)
d Conditions of the initiation of development and the positioning of axial rudiment in the early blastoderm. Leuciscus bergi (Cyprinidae), Epiplatys shaperi (Cyprinodontidae, Teleostei)
HORDER, T. J.; Ph.D. – Dept. of Hum. Anat., Univ., South Parks Rd., OXFORD OX1 3QX, England
a Control of orderly nerve connections in embryonic development and in regeneration, especially in the optic nerve; assessment of the concept of neural specificity; the potentialities for regeneration of nerve fibres in the central nervous system. Carassius auratus (Teleostei), various spp. (Amphibia), Rattus spec., Oryctolagus cuniculus (Mammalia)
b Mechanisms of pattern formation in general; lens regeneration as a model for control of specific states of cellular differentiation
HORNBY, Ms. J. E.; Ph.D. – Dept. of Zool., Univ. of Reading, Whiteknights Park, READING RG6 2AJ, England
a Differentiation of coat patterns. Mus musculus, Mesocricetus auratus (Rodentia), Dama dama (Artiodactyla)
HÖRSTADIUS, S.; Ph.D., Prof. (Emer.) – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden
a Effects on larvae of factors isolated from sea urchin eggs and swine mucosa. (Echinoidea)
HORTON, J. D.; Ph.D. – Dept. of Zool., Univ. of Durham, Science Labs., South Rd., DURHAM DH1 3LE, England
a The role of the thymus in the ontogeny of immunity and the mechanism of graft rejection and tolerance (alloimmune responses of animals thymectomized at extremely early stages of lymphoid organ maturation). Xenopus laevis (Anura)
HORVÁTH, Ms. C.; M.D., Assoc.Prof. – Lab. d'Embryol. et de Cytogénét., Fac. de Méd. Saint-Antoine, 27 rue Chaligny, 75571 PARIS Cedex 12, France
a Teratogenesis. Gallus domesticus (Aves), Rattus rattus, Mus musculus, Mesocricetus auratus (Rodentia)
b Effect of teratogens on chromosomes. Rattus rattus (Rodentia)
c Teratogenic action of inhibitors of cholesterol synthesis. Mus musculus, Rattus rattus (Rodentia), Oryctolagus cuniculus (Lagomorpha)
d Teratogenesis by irradiation. Same species as b

HOUILLON, C.; D.Sc., Prof. – Lab. de Biol. Anim., Univ. Paris VI (P. et M. Curie), 4 place Jussieu, 75230 PARIS Cedex 05, France

HOUSSAINT, Ms. E. – Lab. d'Embryol., Univ. de Nantes, 38 Bd. Michelet, B.P. 1044, 44037 NANTES Cedex, France

a Différenciation biochimique des hépatocytes. Gallus gallus (Aves)

b Étude expérimentale du développement du foie. Gallus gallus (Aves). Mus musculus (Rodentia)

c Cultures d'hépatocytes d'embryons. Gallus gallus, Coturnix c. japonica (Aves)

d Embryonic origin of lymphocytes in the bursa of Fabricius. Same species as c

HOYES, A. D.; Ph.D. – Anat. Dept., St. Mary's Hosp. Med. School, Norfolk Place, LONDON W2 1PG, England

a Ultrastructure of the chorion laeve and decidua. Homo sapiens (Primates)

b Ultrastructure of haematopoiesis in the liver and bone marrow. Same species as a

HUBER, W.; D.Sc., Prof. – Naturhist. Museum, und Zool. Inst. der Univ., Abt. für Morphol. und Biol. der Wirbeltiere, Bernastr. 15, 3005 BERN, Switzerland

a Biometrie des Schädels. Canis familiaris (Carnivora), Rupicapra rupicapra (Artiodactyla)

b Postembryonales Wachstum. Canis familiaris (Carnivora)

c Geschlechtszyklus. Rupicapra rupicapra (Artiodactyla)

d Fortpflanzung und Geschlechtszyklus. Sciurus vulgaris (Rodentia)

e. Fortpflanzung und Reproduktionsleistung. Lepus europaeus (Lagomorpha), Canis familiaris (Carnivora)

HUBERT, Ms. C.; – Lab. de Chim. Horm., Maternité de Port Royal, 123 Bd. de Port Royal, 75014 PARIS, France

HUBERT, J.; D.Sc. – Lab. de Biol. Anim., Univ. de Clermont, B.P. 45, 63170 AUBIÈRE, France

a Lignée germinale chez l'embryon, le jeune et l'adulte; étude descriptive et expérimentale, ultrastructure. Lacerta vivipara, L. muralis, L. viridis, Anguis fragilis (Lacertilia)

HUBERT-VAN STEVENS, Ms. E. M. C. – Dept. of Molec. Biol., Free Univ. of Brussels, 67 rue des Chevaux, 1640 RHODE-ST-GENÈSE, Belgium

a Maturation of oocytes. Xenopus laevis (Anura)

HUCHON, Ms. D. E.; D.Sc. – Lab. d'Embryol., Univ. Paris VI, 4 place Jussieu, 75230 PARIS Cedex 05, France

HUET, C. – Lab. de Biol. Anim. A, Fac. des Sci., Univ. Paris-Sud, Bât. 445, 91405 ORSAY, France

HUET, M. – Lab. de Biol. Anim. A, Univ. Paris-Sud, Bât. 445, 91405 ORSAY, France

HULTIN, J. M. T.; Fil.Dr. – Wenner-Gren Inst., Norrtullsgatan 16, 113 45 STOCKHOLM, Sweden

a Protein and nucleic acid metabolism in early development. Artemia salina (Anostraca, Crustacea), (Echinoidea)

HURLE GONZALEZ, J. M.; Dr.Med. – Serv. de Embriol. Exper., Dept. de Anat., Fac. de Med., SANTANDER, Spain

a Cell death during normal and abnormal morphogenesis of the heart (stages 9–34 H.H.; optic and electron microscopy). Gallus domesticus (Aves)

b Development and role of cardiac jelly (microsurgery, optic and electron microscopy). Same species as a

HURST, P. R.; Ph.D. – Dept. of Anat., Med. School, Univ. of Birmingham, Edgbaston, BIRMINGHAM B15 2TJ, England

a Development of embryos in normal and IUD (intra-uterine device) treated animals. Mus musculus (Rodentia), Homo sapiens and other spp. (Primates)

IANNELLO, Ms. A.; Dr.rer.nat. – Ist. di Anat. Umana Norm., Univ. di Catania, Via Biblioteca 4, 95124 CATANIA, Italy

a Sviluppo delle ossa interparietali e preinterparietali. Homo sapiens (Primates)

IGNATJEVA, Ms. G. M.; Cand.biol.sci. – Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.

a Relative duration of embryonic periods in connection with the morphogenetic function of nuclei and yolk. Misgurnus fossilis, Esox lucius and other spp. (Teleostei), Ambystoma mexicanum (Urodela)

ILIES, A.; Dr.biol. – Inst. d'Histochim Méd., Univ. Paris V (René Descartes), 45 rue des Sts. Pères, 75270 PARIS Cedex 06, France

a Fluor in developing teeth. Rattus spec. (Rodentia)

ILLIS, L. S.; M.D. – Wessex Neurol. Centre, Southampton Univ. Hosp., SOUTHAMPTON SO9 4XY, England

a Changes in synapses and glia after partial denervation of the central nervous system, and the factors which influence the time course of its regeneration. Rattus spec. (Rodentia), Felis domestica (Carnivora)

b Changes following repetitive stimulation of the central nervous system. Same species as a

IMAIZUMI, Ms. M. T.; M.D. – Inst. de Rech. en Biol. Mol. du C.N.R.S., Univ. Paris VII, 2 place Jussieu (Tour 43), 75221 PARIS Cedex 05, France

a Gene transcription in oocytes. Gallus domesticus, Coturnix c. japonica (Aves)

IMMERS, J.; Fil.Dr. – Wenner-Gren Inst., Norrtullsgatan 16, 113 45 STOCKHOLM, Sweden

a Biochemical factors in embryonic and larval development, particularly the role of mucopolysaccharides. Paracentrotus lividus (Echinoidea)

b Changes in interaction between proteins and nucleic acids in the course of early development. Paracentrotus lividus, Psammechinus miliaris (Echinoidea)

c Interaction of animal-vegetal morphogenes with respect to double gradient concept. (Echinoidea)

INEICHEN, H.; dipl.Biol. – Inst. of Cell Biol., Swiss Fed. Inst. of Technol., Hönggerberg, 8093 ZÜRICH, Switzerland

a RNA metabolism. (Chironomidae, Diptera)

b Dormancy. Same species as a

INGLE, R. W.; Ph.D. – Dept. of Zool., Brit. Museum (Nat. Hist.), Cromwell Rd., LONDON SW7 5BD, England

a Larval development. (Brachyura, Decapoda, Crustacea)

INIGUEZ LOBETO, C. – Serv. Embriol. Exp., Dept. Anat., Fac. de Med., Av. Ramon y Cajal, VALLADOLID, Spain

ISH-HOROWICZ, D.; Ph.D. – Mill Hill Lab., Imp. Canc. Res. Fund, Burtonhole Lane, LONDON NW7 1AD, England

a Genetics of heat-shock proteins. Drosophila melanogaster (Diptera)

IVANOFF-GERARD, Ms. A. – Lab. d'Embryol., Univ. de Nancy I, B.P. 1080, 54019 NANCY Cedex, France

a Histogenèse des systèmes aminergiques diencéphaliques à partir du 6e jour de la vie embryonnaire jusqu'à la quatrième semaine postnatale. Gallus domesticus (Aves)

IVANOV, E. A.; Cand.sci. – Chair of Embryol., Biol. Fac., State Univ. of Moscow, Lenin Hills, MOSCOW 117234, U.S.S.R.

a Experiments on the segmentation of the axial mesoderm. Rana temporaria (Anura), Gallus domesticus (Aves)

IVANOV, J. A.; Dr. – Dept. of Embryol., Univ. of Moscow, Lenin Hills, Moscow 117234, U.S.S.R.

IVANOV, V. I.; Dr., Prof. – Lab. of Exp. Genet., Inst. of Med. Genet., Kashirskoye Chaussee 6a, 115478 MOSCOW, U.S.S.R.

a Determination of imaginal disc cells in normal and mutant strains. Drosophila melanogaster (Diptera)

b Interaction of homoeotic and non-homoeotic genes during development. Same species as a

c Temperature sensitivity of homoeotic and non-homoeotic mutants. Same species as a

d Pleiotropy of homoeotic genes. Same species as a

IVANOVA (KASAS), Ms. O. M.; Dr.biol., Prof. – Dept. of Embryol., Leningrad State Univ., Mendeleevsky St. 5, LENINGRAD 199164, U.S.S.R.

a Comparative embryology. Synoicum pulmonaria (Ascidiacea)

b Asexual reproduction. Same species as a

IZMAIŁOW, Ms. R.; Dr. – Dept. of Plant Cytol. and Embryol., Inst. of Bot., Jagellonian Univ., Grodzka 52, 31–044 KRAKÓW, Poland

a Control of apomixis (cytology, embryology). Alchemilla spec. (Rosaceae), Ranunculus auricomus (Ranunculaceae)

JACKSON, J. F.; B.A. (Hons.) – Inst. of Anim. Genet., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JN, Scotland, U.K.

a Properties of lens mRNAs; regulation of stability. Gallus domesticus (Aves) (with R. M. CLAYTON, D. E. S. TRUMAN, I. THOMSON (Edinburgh), and R. WILLIAMSON (London)

JACOB, H. J.; Dr.med. – Lehrst. für Anat. I, Ruhr-Univ., Universitätsstr. 150, Postfach 102148, 4630 BOCHUM, B.R.D. (Germany)

a Differentiation of somites. Gallus domesticus, Coturnix c. japonica (Aves)

b Ultrastructure of connective tissue differentiation. Gallus domesticus (Aves)

c Scanning and transmission electron microscopy of prelaying stages. Same species as a

d Origin and development of musculature. Same species as a

e Development of the embryonic kidney. Same species as a, and Homo sapiens (Primates)

f Migration of embryonic cells. Same species as b

JACOB, J.; Ph.D. – Inst. of Anim. Genet., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JN, Scotland, U.K.

a Ultrastructural changes and patterns of DNA, RNA, and protein synthesis in differentiating cells as studied by E.M. autoradiography. Xenopus laevis (Anura), Homo sapiens (Primates)

b Characterization of DNA by in situ hybridization of labelled RNA with ultrathin sections of cells and tissues. Xenopus laevis (Anura), mouse L cells, HeLa cells (Mammalia)

JACOB (LOES), Ms. M.; Dr.med. – Lehrst. für Anat. I, Ruhr-Univ., Universitätsstr. 150, Postfach 102148, 4630 BOCHUM, B.R.D. (Germany)

a Differentiation of somites. Gallus domesticus, Coturnix c. japonica (Aves)

b Ultrastructure of connective tissue differentiation. Gallus domesticus (Aves)

c Scanning and transmission electron microscopy of prelaying stages. Same species as a

d Origin and development of musculature. Same species as a

e Development of the embryonic kidney. Same species as a, and Homo sapiens (Primates)

f Migration of embryonic cells. Same species as b

JACOBSON, D. C. O.; Ph.D., Prof. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden

a Orientational mechanisms of the outgrowing nerve fibre studied in vivo and in vitro

b Factors stimulating nerve fibre outgrowth

JACQUOT, R. L.; D.Sc., Prof. – Lab. de Physiol. Anim., Univ. de Reims, B.P. 347, 51062 REIMS Cedex, France

a Pre- and postnatal functional maturation of the hepatocyte. Rattus norvegicus (Rodentia) (with J. M. FELIX and C. LEGRELE)

b Hemopoietic function of the foetal liver; factors controlling its progressive disappearance. Same species as a (with M. D. NAGEL and C. BILLAT)

c Endocrine functions of the foetus. Same species as a

JACUŃSKI, L.; Dr.biol. – Dept. of Zool., Inst. of Biol., Univ. of N. Copernicus, Gagarina 9, 87–100 TORUŃ, Poland

a Teratogenesis and regeneration. Tegenaria atrica (Araneae, Arachnida)

JAFFRAY, J. Y. – Lab. d'Histol.-Embryol., Fac. de Méd., Bd. Winston Churchill, B.P. 38, 63001

CLERMONT-FERRAND Cedex, France
a Chromosome ultrastructure. Homo sapiens (Primates)

JÄGERSTEN, K. G. M.; Ph.D., Prof. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden
a Larval development. (Pogonophora)
b Comparative studies of larval development. (Invertebrata)

JAMES, B. L.; Ph.D. – Dept. of Zool., Univ. Coll. of Swansea, Singleton Park., SWANSEA, Glamorgan, Wales, U.K.

JAMES, D. A.; D.Phil. – Dept. of Pathol., Wellcome Res. Labs., Langley Court, BECKENHAM, Kent BR3 3BS, England
a Teratogenicity of pharmaceuticals. Mus musculus, Rattus spec. (Rodentia), Oryctolagus cuniculus (Lagomorpha)
b Mutagenicity of pharmaceuticals. Mus musculus (Rodentia)

JANDIERI, Ms. K. M. – Dept. of Developm. Biol., Inst. of Exp. Morphol., Acad. of Sci. of the Georgian SSR, Digomi, 380059 TBILISI, U.S.S.R.
a Participation of nuclear and cytoplasmic substances in control of state of DNA in chromatin. Gallus domesticus (Aves), Rattus norvegicus (Rodentia)

JANNING, W.; Dr. – Zool. Inst. der Univ., Badestr. 9, 44 MÜNSTER/Westf., B.R.D. (Germany)
a Analysis of genetic mosaics of internal organs (larval and imaginal), using enzyme marker genes. Drosophila melanogaster (Diptera)

JANSEN, J.; M.D., Prof. (Emer.) – Anat. Inst., Univ. of Oslo, Karl Johansgate 47, OSLO 1, Norway
a Morphogenesis of brain stem nuclei. Balaenoptera musculus, B. physalus (Cetacea)

JANSSEN, P. Th.; Drs. – Dept. of Med. Anat. and Embryol., State Univ. of Utrecht, Janskerkhof 3A, UTRECHT, Netherlands
a Synthesis of soluble proteins in the whole embryo and in the cultured eye cup (disc electrophoresis, isoelectric focusing, autoradiography). Gallus domesticus (Aves) (with H. van der STARRE)
b Biosynthesis and localization of alpha-fetoprotein in early development (immunofluorescence). Same species as a
c Lens proteins in early development. Same species as a

JANTOŠOVIČOVÁ, Ms. J.; M.V.Dr. – Dept. of Normal Anat., Sch. of Vet. Med., Komenského 73, 041 81 KOŠICE, Czechoslovakia
a Morphogenesis of the testis. Ovis aries (Artiodactyla)

JANTZEN (WILKENS), Ms. H. L. M.; Dr. – Physiol. Lehrst., Zool. Inst. der Univ., Im Neuenheimer Feld 230, 6900 HEIDELBERG 1, B.R.D. (Germany)
a Synthesis of new RNA populations needed for encystment. Acanthamoeba castellanii (Rhizopoda)
b Informational value of new transcription products during development. Same species as a
c Translation products in cell free synthesizing systems of stage specific poly-A RNA. Same species as a
d Phosphorylation of histones during development. Same species as a
e Characterization of ribonuclease(s); their activity(ies) during development. Same species as a
f Length of transcribed DNA during development. Same species as a

JARZAB, Ms. B. – Dept. of Gen. Biol., Silesian Acad. of Med., ul. K. Marksa 19, 41–808 ZABRZE 8, Poland
a Ontogenesis of calcitonin: extraction and chromatography of tissues derived from pharyngeal pouches and biological testing of obtained fractions (6–12 weeks). Homo sapiens (Primates)

JAYLET, A.; D.Sc., Prof. – Lab. de Biol. Gén., Univ. Paul-Sabatier, 118 Rte de Narbonne, 31077 TOULOUSE Cedex, France
a Effects of X-rays on the progeny of irradiated animals; chromosomal anomalies; chromosomal markers in homozygous strains. (Urodela)
b Experimental gynogenesis. (Urodela) (with V. FERRIER)
c Chemical mutagenesis. (Urodela) (with J. C. BEETSCHEN and V. FERRIER)
d Genetical aspects of protein and enzyme differentiation in embryonic and larval stages. (Urodela) (with F. GASSER and J. C. BEETSCHEN)

JEANVOINE, Ms. G. – Lab. de Biol. Méd., Univ. de Nancy I, B.P. 1080, 54019 NANCY Cedex, France
a Histogenèse des pituicytes. Gallus domesticus (Aves)
b Histogenèse de l'adénohypophyse. Rattus norvegicus (Rodentia)

JELASKA, Ms. S.; Ph.D. – Dept. of Biol., Fac. of Sci., Rooseveltov trg 6/III, 41001 ZAGREB, P.p. 933, Yugoslavia
a Alternation of embryogenic potential in callus culture; embryo formation by isolated single cells. Cucurbita pepo (Cucurbitaceae)

JELÍNEK, R.; MUDr., CSc. – Inst. of Exp. Med., Dept. of Teratol., Czech. Acad. of Sci., Legerova 61, 120 00 PRAHA 2, Czechoslovakia
a Quantitative morphogenesis of the placenta and fetal membranes with respect to teratology. Gallus domesticus (Aves), (Placentalia, Mammalia)
b Elaboration of an appropriate method for testing the teratogenic activity of drugs. Gallus domesticus (Aves), Rattus norvegicus, Mus musculus (Rodentia)
c Embryotoxic effects of normal and pathologieal blood serum of different species including man. Gallus domesticus (Aves)

JENKINSON, E. J.; Ph.D. – Dept. of Pathol., Univ. of Bristol, University Walk, BRISTOL BS8 1TD, England
a Immunology of reproduction. Mus musculus (Rodentia), Homo sapiens (Primates)

b Biology of the trophoblast. Same species as a
c Early embryonic development. Mus musculus (Rodentia)

JENSEN, P. V.; M.Sc. – Inst. of Gen. Zool., Univ. of Copenhagen, 15 Universitetsparken, 2100 COPENHAGEN Ø, Denmark
a Ultrastructural changes in metamorphosing hearts. Calliphora erythrocephala (Diptera)
b DNA amount and DNA synthesis in the individual cells of the metamorphosing heart. Same species as a
c Peroxidase secreting epidermal cells in the pharate adult. Same species as a

JERKA-DZIADOSZ, Ms. M.; Dr.nat.sci. – Dept. of Cell Biol., M. Nencki Inst. of Exper. Biol., Polish Acad. of Sci., Pasteur St. 3, 02–093 WARSZAWA, Poland
a Surface organelle pattern regulation. Urostylidae (Ciliata)
b Genetically determined mirror-image inversion of the morphogenetic field. Tetrahymena thermophila (Ciliata)

JIŘIČKA, Z.; M.D., Ph.D. – Inst. of Pharmacol., Czech. Acad. of Sci., Albertov 4, 128 00 PRAHA 2, Czechoslovakia
a Normal and pathological histology and histochemistry of implantation and placentation. Homo sapiens (Primates; Rodentia)
b Influence of drugs and bacterial toxins on implantation and placentation. Same species as a

JIRSOVÁ, Ms. Z.; M.D. – Inst. of Embryol., Fac. of Med., Charles Univ., Albertov 4, 128 00 PRAHA 2, Czechoslovakia
a Egg transplantation (electron microscopy and cytochemistry of egg transport and implantation in experimental conditions). Oryctolagus cuniculus (Lagomorpha)
b Electron microscopy and cytochemistry of tubal epithelium differentiation. (Rodentia; Carnivora), Homo sapiens (Primates)

JOHANNISSON, R.; Dr. – Inst. für Allgem. Biol., Univ. Düsseldorf, Universitätsstr. 1, 4000 DÜSSELDORF, B.R.D. (Germany)
a Synthetic capacity and structure of oocytes and nurse cells; deposition of yolk protein in the oocyte. Daphnia magna (Cladocera, Crustacea)
b Gene physiology, Y chromosome. Drosophila spp. (Diptera)
c Genetic regulation of differentiation; male germ line cells. Drosophila spp. (Diptera)

JOHN, H. A. – Inst. of Anim. Genet., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JN, Scotland, U.K.
a Biosynthesis of contractile proteins during myogenesis in vivo and in vitro. Mus musculus, Rattus spec. (Rodentia), Homo sapiens (Primates)

JOHNEN, Ms. A. G.; Dr.phil., Prof. – Zool. Inst. der Univ., Weyertal 119, 5 KÖLN 41, B.R.D. (Germany)
a Die Wirkungsspezifität abnormer Induktoren in der Entwicklung. Triturus vulgaris, Ambystoma mexicanum (Urodela)
b Die Bedeutung des Zeitfaktors beim Induktionsvorgang. Dieselben Arten wie a
c Untersuchungen über die Kompetenzverhältnisse beim Ektoderm. Ambystoma mexicanum, Triturus vulgaris, T. alpestris, T. helveticus (Urodela)
d Wechselwirkung zwischen Ektoderm und Mesoderm in Gastrula und Neurula. Dieselben Arten wie c
e Mass-effects in primary induction process. Same species as c

JOHNSON, D. R.; Ph.D. – Dept. of Anat., School of Med., Univ. of Leeds, LEEDS LS2 9NL, England
a Electron microscopy of abnormal tissues, and neuroendocrinology of animals carrying mutant genes. Mus musculus (Rodentia)
b Biochemistry of achondroplastic mutants. Same species as a
c Mathematical analysis of growth process using multivariate analysis. Various spp.

JOHNSON, M. H.; Ph.D. – Dept. of Anat., Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3DY, England
a Surface properties of gametes and early embryos (specific probes, e.g. lectins, antibodies, etc.). Mus musculus (Rodentia)
b Early development studied with sensitive micro-methods for determination of protein synthetic patterns in whole or microsurgically dissected normal and mutant embryos. Same species as a
c Developmental commitment and spatial relationship of cells in early embryos studied with interspecific chimaeras and antigenic markers. Mus musculus, Rattus spec. (Rodentia)

JOŃCZY, J.; M.Sc. – Zool. Dept., Jagellonian Univ., ul. Krupnicza 50, KRAKÓW 2, Poland
a Differentiation of primordial germ cells (qualitative and stereological analysis). Tetrodontophora bielanensis (Collembola)

JONES (HOLT), Ms. E. C.; Ph.D. – Dept. of Anat., Med. School, Univ. of Birmingham, Edgbaston, BIRMINGHAM B15 2TJ, England
a The effect of maternal age on morphology and development of fertilized eggs. Mus musculus (Rodentia)

JONES, G. E.; Ph.D. – Dept. of Biol., Queen Elisabeth Coll., Univ. of London, LONDON W8 7AH, England
a Control of cellular movement and adhesion in haemocytes. Patella vulgata (Gastropoda)
b Adhesive specificity between cells of developing neural retina. Gallus gallus (Aves)

JONES, K. W.; Ph.D. – Inst. of Anim. Genet., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JN, Scotland, U.K.
a Location and function of reiterated DNA sequences in nuclei and chromosomes studied by in situ hybridization of complementary RNA. (Metazoa)
b Ultrastructure, biochemistry, and differentiation of myogenic cells, especially processes of transcription and translation

c Location of polyadenylated messenger RNAs by in situ hybridization of poly-U(H3) and mRNA complementary cDNAs. (Insecta), Rattus spec., Mus musculus (Rodentia), Homo sapiens and other spp. (Primates)
d Cloning of cDNA of myogenic cells in E.coli plasmid systems

JONG, Ms. G. de; M.Sc. – Dept. of Popul. and Evol. Biol., Genet. Inst., State Univ., Transitorium III, Padualaan 8, UTRECHT, Netherlands

JONGH, H. J. de; D.Sc. – Dept. of Anat. and Embryol., Univ. of Groningen, Oostersingel 69, GRONINGEN, Netherlands
a Functional morphology of the head with special reference to larval life and metamorphosis. (Anura)
b Ultrastructural aspects of metamorphosis of cranial muscles. (Anura)

JOSEPH, J.; D.Sc., M.D., Prof. – Dept. of Anat., Guy's Hosp. Med. School, LONDON SE1 9RT, England
a Regeneration: 1. epithelium; 2. whole thickness of adult ear; 3. effects of steroids and drugs. Oryctolagus cuniculus (Lagomorpha)

JOSEPHSEN, K.; D.D.S. – Dept. of Anat., Royal Dent. Coll., Vennelyst Blvd., 8000 ÅRHUS C, Denmark
a Incisor enamel organ: 1. morphological and functional aspects of maturation zone; 2. effect of fixatives on preservation. Rattus spec. (Rodentia)
b Electron microscopy of tooth development in vitro. Mus musculus (Rodentia) (with O. FEJERSKOV and I. THESLEFF)

JOST, A. D.; D.Sc., M.D.(h.c.), Prof. – Lab. de Physiol. du Dével., Coll. de France, place Marcelin Berthelot, 75231 PARIS Cedex 05, France
a Development of gonads. (Mammalia)
b Freemartins. Bos taurus (Artiodactyla)
c Glycogen deposition in fetal liver and its hormonal control
d Perinatal endocrinology

JOTEREAU, Ms. F. J. – Lab. d'Embryol., Univ. de Nantes, 38 Bd. Michelet, B.P. 1044, 44037 NANTES Cedex, France
a Thymus ontogeny; origin, renewal, fate and functional differentiation of thymic lymphocytes in interspecific chimeras. Gallus domesticus, Coternix c. japonica (Aves)

JUBERTHIE, C.; D.Sc. – Lab. Souterrain, Centre Natl. Rech. Scient., 09410 MOULIS, France
a Développement. Phrynus spec. (Arachnida)
b Influence des facteurs abiotiques (température) sur le développement embryonnaire des espèces souterraines. Bathysciola spec., Speonomus spec., Antrocharis spec. (Coleoptera)

JUBERTHIE-JUPEAU, Ms. L.; D.Sc. – Lab. Souterrain, Centre Natl. Rech. Scient., 09410 MOULIS, France

JUCHAULT, P.; Dr. – Lab. de Physiol. et Génét. des Crustacés, Univ. de Poitiers, 40 av. du Recteur Pineau, 86022 POITIERS Cedex, France
a Contrôle neurohumoral de la différenciation sexuelle chez des espèces gonochoriques et hermaphrodites. (Isopoda, Crustacea)
b Intersexualité et monogénie. Same species as a

JUNERA, Ms. H. – Lab. Sex. et Reprod. des Invertébr., Univ. Paris VI (P. et M. Curie), Bât. A, 7e étage, 4 place Jussieu, 75230 PARIS Cedex 05, France
a Electrophoresis and immunochemistry of a female protein: vitellogenin. Orchestia gammarellus (Amphipoda, Crustacea) (with Y. CROISILLE (Nogent), H. CHARNIAUX-COTTON and J. J. MEUSY)

JUNG, E.; Dr.rer.nat. – Zool. Inst. I der Univ., Röntgenring 10, 87 WÜRZBURG, B.R.D. (Germany)

JURA, Cz.; D.Sc. – Zool. Dept., Jagellonian Univ., ul.Krupnicza 50, KRAKÓW, Poland
a Early developmental stages. Tetrodontophora bielanensis (Collembola)
b First cleavage, studied with UV micro-beam. Succinea putris (Gastropoda)

JURAND, A.; Ph.D. – Inst. of Anim. Genet., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JN, Scotland, U.K.
a Teratogenic activity of neurotropic drugs. Gallus domesticus (Aves), Mus musculus (Rodentia)
b Mechanism of preventing activity of papaverine hydrochloride on neural tube closure. Same species as a
c Partial neoteny. Xenopus laevis (Anura)

KACZANOWSKA (DOBRZAŃSKA), Ms. J.; Dr.ès Sci. – Lab. of Protozool., Inst. of Zool., Warsaw Univ., Krakowskie Przedmieście 26/28, 00–927 WARSZAWA, Poland

KACZANOWSKI, A.; D.Sc. – Lab. of Protozool., Inst. of Zool., Warsaw Univ., Krakowski Przedmieście 26/28, 00–927 WARSZAWA, Poland

KAFIANI, C. A. – Inst. of Molec. Biol., USSR Acad. of Sci., Vavilov St. 32, MOSCOW 117312, U.S.S.R.
a Transcription in isolated nuclei of the early embryo. Misgurnus fossilis (Teleostei) (with A. A. KOSTOMAROVA)

KAKEBEEKE, P. I. J.; Drs. – Zool. Lab., Unit of Cell Biol. and Morphogen., State Univ., Kaiserstr. 63, LEIDEN, Netherlands
a Chemotaxis and cell aggregation. Dictyostelium spec. (Acrasiales)

KALATOSISHVILI, Ms. M. D.; Cand.biol.sci. – Dept. of Anim. Embryol., Inst. of Zool., Acad. of Sci. of the Georgian SSR, 31 Chavchavadze Ave., TBILISI 380030, U.S.S.R.

KALETA, Ms. E. W.; Ph.D. – Dept. of Genet. and Evolut., Jagellonian Univ., Krupnicza 50, 30–060 KRAKÓW, Poland
a Fertilization in vitro of eggs from inbred and crossbred animals. Mus musculus (Rodentia)

KÄLLÉN, A. J. B.; M.D., Prof. – Tornblad-Inst. for Comp. Embryol., Biskopsgatan 7, 223 62 LUND, Sweden
KALLIO, P.; Dr.Phil. – Dept. of Bot., Univ. of Turku, 20500 TURKU 50, Finland
KÁLMÁN, G.; Ph.M. – Dept. of Anat., Univ. Med. Sch., Kossuth Lajos út 40, P.O. Box 512, 6701 SZEGED, Hungary
a Developmental histochemistry and electron microscopy of the autonomic ground plexus. Rattus rattus (Rodentia) (with B. CSILLIK, M. GAJÓ and E. KNYIHÁR)
KALTHOFF, K.; Dr.rer.nat. – Biol. Inst. I (Zool.) der Univ., Albertstr. 21a, 7800 FREIBURG/Br., B.R.D. (Germany)
a Anterior morphogenetic determinant. Smittia spec. (Chironomidae, Diptera)
b Photoreactivation of UV irradiated cells. Same species as a
KALUZA, J. S.; M.D. – Dept. of Neuropathol., Inst. of Pharmacol., Polish Acad. of Sci., Botaniczna-str. 3, KRAKÓW, Poland
a Nonenzymatic oxidation-reduction systems in fiber membranes of the central nervous system in ontogenetic development. Felis domestica (Carnivora), Rattus norvegicus (Rodentia)
KAMLER, Ms. E.; Dr. – Dept. of Ecol. Bioenerget., Inst. of Ecol., Polish Acad. of Sci., Pasteura 3, P.O. Box 64, 00–973 WARSZAWA, Poland
a Ecological and physiological reasons of variability of egg endowment with energy reserves. Coregonus albula (Teleostei)
KANKAVA, Ms. B. L.; Cand.biol.sci. – Dept. of Anim. Embryol., Inst. of Zool., Acad. of Sci. of the Georgian SSR., 31 Chavchavadze Ave., TBILISI 380030, U.S.S.R.
KAPRIO, E. A.; B.Sc.(hons.), B.M., B.Ch. – Lab. of Exp. Embryol., Dept. of Zool., Univ. of Helsinki, Arkadiankatu 7, 00100 HELSINKI 10, Finland
a Ultrastructure of the limb bud. Gallus domesticus (Aves)
KARCHER (DJURICIC), Ms. V.; D.Sc. – Inst. d'Embryol., Univ. de Strasbourg, 4 rue Kirschleger, 67085 STRASBOURG Cedex, France
a Epithelial-mesenchymal interactions, mitosis and differentiation in teeth. Mus musculus (Rodentia)
KARKINEN-JÄÄSKELÄINEN, Ms. M.; M.D. – Lab. of Exp. Embryol., III. Dept. of Pathol., Univ. of Helsinki, Haartmaninkatu 3, 00290 HELSINKI 29, Finland
a Mechanism of lens induction. Gallus gallus (Aves)
KARLSSON, B.; Fil.Dr. – Zoophysiol. Inst., Univ. of Lund, Helgonavägen 3b, 223 62 LUND, Sweden
KARLSSON, L.; Fil.kand. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden
a Effects of pollutants on reproduction. (Teleostei)
KARSSEN, C. M.; Dr. – Dept. of Plant Physiol., Agric. Univ., Arboretumlaan 4, WAGENINGEN, Netherlands
KASSNER, J.; Ph.D. – Inst. of Zool., Univ. of Wrocław, ul.Scienkiewicza 21, 50–335 WROCŁAW, Poland
a Ultrastructure of ova and the fertilization process. Mus musculus (Rodentia)
KASYANOV, V. L.; Cand.biol.sci. – Lab. of Embryol., Inst. of Marine Biol., Far East Sci. Ctr., Acad. of Sci. of the USSR, VLADIVOSTOK 690022, U.S.S.R.
a Reproductive cycle. marine spp. (Lamellibranchia; Echinoidea; Asteroidea)
b Origin of germ cells. (Mollusca; Echinodermata)
c Larval development. (Asteroidea)
KAUFMAN, M. H.; Ph.D. – Anat. School, Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3DY, England
a Parthenogenetic activation and the factors which influence pre- and post-implantation development of haploid and diploid parthenogenones; biochemical examination of macromolecular synthesis and its regulation during early development in parthenogenetic compared with fertilized eggs and embryos. Mus musculus (Rodentia)
b Factors which influence oocyte maturation and steroidogenesis in Graafian follicles in culture; effect of various agents on gametogenesis and embryogenesis. Mus musculus, Rattus spec. (Rodentia)
KAUFMANN, P.; Dr.med. – Anat. Inst., Abt. für Neuroanat., Univ. Krankenhaus Eppendorf, Martinistr. 52, 2 HAMBURG 20, B.R.D. (Germany)
a Development and chemodifferentiation of the placenta (electron microscopy, enzyme histochemistry). Cavia porcellus (Rodentia), Homo sapiens (Primates)
b Development and chemodifferentiation of the cortex cerebri and cerebelli (light microscopy, electron microscopy, enzyme histochemistry). Mus musculus, Rattus norvegicus (Rodentia)
KAUROV, B. A.; Dr. – Lab. of Exp. Genet., Inst. of Med. Genet., Kashirskoye Chaussee 6a, 115478 MOSCOW, U.S.S.R.
a Pattern formation in aggregates of imaginal disc cells. Drosophila melanogaster (Diptera)
b Pleiotropy of homoeotic genes. Same species as a
KEITH, J. M.; B.Sc.(Hons.) – Teratol. Labs., Royal Coll. of Surg. Res. Establ., Downe, ORPINGTON, Kent BR6 7JJ, England
a Possible role of neural crest in craniofacial malformations. Gallus domesticus (Aves), Callithrix jacchus (Primates)
b Hyperthermia, thalidomide and blighted potatoes (extracts and possible contaminants) as teratogenic agents; collection of normal data; techniques required. Rattus norvegicus (Rodentia), Macaca irus, Callithrix jacchus (Primates)
c Characteristics of microphthalmic and white mutants with a view to relating the phenotypic effects to developmental events and elucidating the specific action of the mutation. Mus musculus (Rodentia)
KELLY, W. A.; Ph.D. – Anat. Dept., Bristol Univ., University Walk, BRISTOL BS8 1TD, England

KEMP, R. B.; Ph.D. – Zool. Dept., Univ. Coll. of Wales, Penglais, ABERYSTWYTH SY23 3DA, Wales, U.K.
a Role of actomyosins and glycoproteins in adhesiveness and movement of embryonic cells. Gallus domesticus (Aves)
b Interactions between cell types in morphogenesis. Halichondria panicea, Hymeniacidon perleve, Ophlitaspongia seriata (Porifera)
c Effect of dissociating agents on adhesiveness and sorting out of freshly-dissociated embryonic cells using the vibromixer. Same species as a
d Role of conditioning media and tryptic peptides in specific adhesion of embryonic cells. Same species as a

KHARLOVA, Ms. G. V.; Cand.biol.sci. – Inst. of Human Morphol., Acad. of Med. Sci. of the USSR, Tsurupa St. 3, MOSCOW 117469, U.S.S.R.
a Regeneration of thymus and spleen. Mus musculus, Rattus norvegicus (Rodentia)

KIEŁBÓWNA, Ms. L.; Ph.D. – Inst. of Zool., Univ. of Wrocław, ul. Sienkiewicza 21, 50–335 WROCŁAW, Poland
a Myogenesis. Xenopus laevis (Anura)
b Nucleoli in oogenesis. Lymnaea spec. (Gastropoda)

KIENY, Ms. M. A. SENGEL; D.Sc. – Lab. de Zool. et Biol. Anim., Univ. Sci. et Méd. de Grenoble, B.P. 53, Centre de Tri, 38041 GRENOBLE, France
a Regulative mechanisms in the differentiation of the limb bud skeleton. Gallus domesticus, Coturnix c. japonica (Aves)
b Cell death in foot morphogenesis. Gallus domesticus (Aves)
c Role of somitic mesoderm in the initiation of limb development. Same species as b
d Somitic origin of limb musculature. Same species as a

KIERMAYER, O.; Dr.phil., Prof. – Bot. Inst., Univ. Salzburg, Lasserstr. 39, 5020 SALZBURG, Austria
a Developmental studies in relation to fine-structural elements. Micrasterias spec. (Chlorophyceae)

KILARSKI, W.; Ph.D. – Dept. of Comp. Anat., Jagellonian Univ., ul. Krupnicza 50, 30–060 KRAKÓW, Poland
a Differences in cell surface interactions with viruses

KINČURASHVILI, Ms. N. T. – Dept. of Anim. Embryol., Inst. of Zool., Acad. of Sci. of the Georgian SSR., 31 Chavchavadze Ave., TBILISI, 380030, U.S.S.R.

KINDAHL, Miss M. E.; Ph.D. – Skeppargatan 51 III, 11458 STOCKHOLM, Sweden
a Tooth development; reduction of premolars in ontogenesis. Erinaceus europaeus, Tupaia javanica, Elephantulus myurus, Talpa europaea, Eremitalpa granti, Sorex araneus, Suncus orangiae, Crocidura araneus (Insectivora)

KING, C. A.; Ph.D. – Dept. of Zool., Univ. Coll. London, Gower St., LONDON WC1E 6BT, England
a Morphogenesis of flagella. Naegleria gruberi (Rhizopoda)

KING, P. E.; Ph.D. – Dept. of Zool., Univ. Coll. of Swansea, Singleton Park, SWANSEA, Glamorgan, Wales, U.K.

KINK, Ms. J.; Dr.nat.sci. – Dept. of Cell Biol., M. Nencki Inst. of Exper. Biol., Polish Acad. of Sci., Pasteur St. 3, 02–093 WARSZAWA, Poland
a Dedifferentiation and differentiation of fibrillar structures during encystment and excystment. Dileptus spec. (Ciliata)
b Regulation of ciliary pattern during regulation of cellular form in different fragments. Same species as a

KINSKY, Ms. I.; Dr.med. – Anat. Inst., Abt. für Exp. Biol., Univ. Bonn, Nussallee 10, 53 BONN, B.R.D. (Germany)
a Light and electron microscopy of the development of different states of condensation of constitutive heterochromatin during pre- and postnatal growth. Microtus agrestis (Rodentia)

KIRCHNER, C.; Dr.rer.nat., Prof. – Zool. Inst. der Univ., Ketzerbach 63, 355 MARBURG/Lahn, B.R.D. (Germany)

KISTLER, G. S.; M.D. – Electron Micr. Div., Dept. of Anat., Univ. of Zürich, Gloriastr. 19, 8006 ZÜRICH, Switzerland
a Virus-induced embryo- and fetopathies (light and electron microscopy, virology, immunology). Oryctolagus cuniculus, Rattus spec., Mus musculus, Cavia porcellus, Mesocricetus auratus, Homo sapiens (Mammalia)
b Organogenesis and organ differentiation, especially the immune system (light and electron microscopy). Oryctolagus cuniculus, Rattus spec., Mus musculus, Homo sapiens (Mammalia)

KLAG, J.; D.Sc. – Zool. Dept., Jagellonian Univ., ul. Krupnicza 50, KRAKÓW, Poland
a Differentiation of primary germ cells. Thermobia domestica (Thysanura)

KLEIN, H. W.; Dr.med. – Dept. of Anat. and Embryol., Fac. of Med., Erasmus Univ., P.O. Box 1738, ROTTERDAM 3002, Netherlands

KLEINEBRECHT, J.; Dr.rer.nat. – Inst. für Humangenet. der Univ., Paul-Ehrlich Str. 41, 6 FRANKFURT/Main 70, B.R.D. (Germany)
a Realization of malformations and embryonic death. Mus musculus (Rodentia)
b Histology of spontaneous abortions. Homo sapiens (Primates)

KLEPAC, R.; M.S. – Inst. of Biol., Fac. of Med., Univ. of Zagreb, Šalata 3, P.O. Box 166, 41001 ZAGREB, Yugoslavia
a Development and function of the pituitary-adrenocortical system in foetus and neonate (biochemistry, histology, histochemistry). Rattus norvegicus (Rodentia) (with K. MILKOVIĆ and J. PAUNOVIĆ)

KLOC-STEPKOWSKA, Ms. M.; Mgr. – Dept. of Cytol., Zool. Inst., Warsaw Univ., Krak. Przedmieście 26/28, 00–927/1 WARSZAWA, Poland

a Extrachromosomal DNA and its role in oogenesis. (Staphylinidae, Coleoptera)

KNEGT, E.; Dr. – Dept. of Plant Physiol., Agric. Univ., Arboretumlaan 4, WAGENINGEN, Netherlands

KNESE, K.-H.; Dr.med., Dr.phil., Prof. – Inst. für Histol. und Embryol., Univ. Hohenheim (LH), Fruwirthstr. 16, 7000 STUTTGART 70, B.R.D. (Germany)

a Histochemistry, enzymology, and electron microscopy of the early histogenesis of the connective and supporting tissue of the presumptive regions of different kinds of mesenchyme, especially of cartilage and bone, and those in lung and kidney. Gallus domesticus (Aves), Bos taurus (Artiodactyla), Rattus norvegicus, Mus musculus (Rodentia), Homo sapiens (Primates)

b Morphology, enzymology, and electron microscopy of histogenesis, especially of cartilage and bone as well as metamorphosis after hormone application. Rattus norvegicus (Rodentia), Bos taurus (Artiodactyla)

c Developmental morphology of embryo. Bos taurus (Artiodactyla)

KNIGHT-JONES, E. W.; D.Phil., Prof. – Dept. of Zool., Univ. Coll. of Swansea, Singleton Park, SWANSEA, Glamorgan, Wales, U.K.

KNÍŽE, B.; RNDr., Ph.D. – Dept. of Exp. Zool., Charles Univ., Viničná 7, 12844 PRAHA 2, Czechoslovakia

a Genetics and cytology of muscle growth. Gallus domesticus (Aves), Bos taurus, Sus domesticus (Artiodactyla) (with H. KNÍŽETOVÁ)

KNÍŽETOVÁ (MYSLIVEČKOVÁ), Ms. H.; RNDr. – Dept. of Exp. Zool., Charles Univ., Viničná 7, 12844 PRAHA 2, Czechoslovakia

a Genetics and cytology of muscle growth. Gallus domesticus (Aves), Bos taurus, Sus domesticus (Artiodactyla) (with B. KNÍŽE)

KNÖCHEL, W.; Dr.rer.nat., Dr.med. – Inst. für Molek. Biol. und Biochem., Freie Univ., Arnimallee 22, 1000 BERLIN 33, B.R.D. (Germany)

a Regulation of information transfer from DNA to protein with special interest in globin mRNA precursor molecules. Gallus gallus (Aves)

KNOWLAND, J. S.; D.Phil. – Dept. of Anat., Med. School, Bristol Univ., University Walk, BRISTOL BS8 1TD, England

KNUDSEN, P. A.; M.D., D.D.S., Prof. – Dept. of Anat., Royal Dent. Coll., Vennelyst Blvd., 8000 ÅRHUS C, Denmark

a Malformations of the vascular system of brain and head. Mus musculus, Rattus norvegicus (Rodentia) (with J. BUGGE)

KNUST, Ms. E.; Dipl.Biol. – Inst. für Allgem. Biol., Univ. Düsseldorf, Universitätsstr. 1, 4000 DÜSSELDORF, B.R.D. (Germany)

a Isolation and characterization of ribonucleoprotein particles from testes. Drosophila hydei (Diptera)

KNYIHÁR, Ms. E.; M.D. – Dept. of Anat., Univ. Med. Sch., Kossuth Lajos út 40, P.O. Box 512, 6701 SZEGED, Hungary

a Developmental histochemistry and electron microscopy of the autonomic ground plexus. Rattus rattus (Rodentia) (with B. CSILLIK, M. GAJÓ and G. KÁLMÁN)

KOCHER-BECKER, Ms. U.; Dr.rer.nat. – Embryonalpharmakol., Freie Univ., Thielallee 69/73, 1000 BERLIN 33, B.R.D. (Germany)

KOCHER, W.; Dr., Prof. – Zool. Inst. (I) der Univ., Röntgenring 10, 87 WÜRZBURG, B.R.D. (Germany)

KOČOVA (PECHÁČKOVÁ), Ms. J.; Dr.med. – Inst. of Histol. and Embryol., Charles Univ., Karlovarská 48, 30167 PLZEŇ, Czechoslovakia

a The development of the venous system. Homo sapiens (Primates)

KOEBKE, J.; Dr.rer.nat. – Anat. Inst., Univ. Kiel, Olshausen Str. 40–60, 23 KIEL, B.R.D. (Germany)

a Differentiation capacity of the marginal zone in early development. Ambystoma mexicanum (Urodela)

b Application of LiCL upon very early developmental stages. Same species as a

KOHLER, F. – Lab. d'Embryol., Univ. de Nancy I, B.P. 1080, 54019 NANCY Cedex, France

a Expériences (homogreffes) sur l'hématopoièse embryonnaire. Gallus domesticus (Aves) (avec H. GERARD)

KOHLER, H.-J. – I. Zool. Inst. der Univ. Erlangen-Nürnberg, Universitätsstr. 19, 852 ERLANGEN, B.R.D. (Germany)

a Comparative embryology. Lernaeocera spec. (Copepoda), Triops cancriformis, Lepidurus apus (Notostraca, Crustacea)

KOMAR, Ms. A.; Mgr. – Lab. of Exper. Embryol., Inst. of Obstet. and Gynecol., Med. Acad., Karowa 2, 00–315 WARSZAWA, Poland

a Influence of the relative age of gametes on embryonic development. Mus musculus (Rodentia)

b Experimental parthenogenesis. Same species as a

c Physiology of fertilization. Same species as a

KONDO, M.; Ph.D., D.Sc. – Lab. of Microbiol., Dept. of Cell Biol., Univ. of Antwerpen, Universiteitsplein 1, 2610 WILRIJK, Belgium

a Transcriptional regulation of cryptobiotical process during early embryonic development. Artemia salina (Anostraca, Crustacea)

b Regulatory mechanism on gene expression of the extracellular haemoglobins. Same species as a

c Characterization of mRNA in relation to cell differentiation and morphogenesis. Same species as a

KONIJN, Th. M.; Ph.D., Prof. – Zool. Lab., Unit of Cell Biol. and Morphogen., State Univ., Kaiserst. 63, LEIDEN, Netherlands

a Chemotaxis, cell aggregation and differentiation. (Acrasiales)

b Effect of adenosine-3', 5'-monophosphate and other cyclic nucleotides on morphogenesis. Dictyostelium discoideum (Acrasiales)

KONYUKHOV, B. V.; Dr.biol., Prof. – Phenogenet. Lab., Inst. of Gen. Genet., Acad. of Sci. of the USSR, Profsoyuznaya St. 7 (I), MOSCOW 117312, U.S.S.R.

a Developmental study of mutational effect of genes which lead to eye and skeletal abnormalities. Mus musculus (Rodentia)

b Genetic control of cell proliferation and differentiation. Same species as a

KOOLMAN, J.; Ph.D. – Physiol.-Chem. Inst. I, Med. Sch., Univ. of Marburg, 355 MARBURG-Lahnberge, B.R.D. (Germany)

a Regulation of the metabolism and inactivation of ecdysone. Calliphora erythrocephala (Diptera), Locusta migratoria (Orthoptera)

b Purification and characterization of enzymes catalyzing single reaction steps in ecdysone metabolism. Same species as a

KOOP, H. U.; Dr. – Inst. für Pflanzenphysiol. und Zellbiol., Freie Univ., Kön.-Luise Str. 12–16a, 1000 BERLIN 33, B.R.D. (Germany)

a Regulation of cell size in different genetical strains. Acetabularia mediterranea (Chlorophyceae)

b Physiology and biochemistry of cyst formation, cyst maturation and gametogenesis. Same species as a

KOPEĆ, Ms. J.; Ph.D. – Dept. of Physiopathol., Hematol. Inst., Chocimska 5, 00–791 WARSZAWA, Poland

a Nucleoli in oogenesis. Enchytraeus albidus (Oligochaeta)

b Wound healing after burning (histometry, colchicine). Rattus norvegicus (Rodentia)

KORDYLEWSKI, L.; D.Sc. – Dept. of Comp. Anat., Jagellonian Univ., ul. Krupnicza 50, 30–060 KRAKÓW, Poland

a Early development of myomeres and their innervation. Xenopus laevis (Anura)

KORKIA (NIJARADZE), Ms. I. R.; Cand.biol.sci. – Dept. of Anim. Embryol., Inst. of Zool., Acad. of Sci. of the Georgian SSR, 31 Chavchavadze Ave., TBILISI 380030, U.S.S.R.

KORNELIUSSEN, H.; M.D. – Anat. Inst., Univ. of Oslo, Karl Johansgt. 47, OSLO 1, Norway

a Development of cerebellum (electron microscopy). Rattus spec. (Rodentia)

b Development of muscle fibers and neuromuscular junctions (electron microscopy). Same species as a

KÖRNER, H. K.; Dr.rer.nat. – Biol. Inst. I (Zool.) der Univ., Albertstr. 21a, 78 FREIBURG, B.R.D. (Germany)

a Experimental developmental morphology of symbiotic organs (mycetomes). Euscelis plebejus and other spp. (Cicadina, Homoptera)

b Host-symbiont relationships. Same species as a

c Ultrastructure of symbiotic microorganisms during embryonic development. Same species as a

KOROCHKIN, L. I.; Dr.Med., Prof. – Lab. of Developm. Genet., Inst. of Cytol. and Genet., Pravda St. 9, ap. 36, NOVOSIBIRSK 630090, U.S.S.R.

a Experimental morphology, cytochemistry, and cytophysiology of the developing nervous system. Rattus norvegicus, Mus musculus (Rodentia)

b Developmental genetics. Drosophila melanogaster, D. virilis (Diptera)

c Regeneration of the neural retina with special reference to isozymic patterns of LDH. Triturus cristatus (Urodela) (with V. I. MITASHOV, Moscow)

KOROTKOVA, Ms. G. P.; Dr.biol. – Dept. of Embryol., Leningrad State Univ., Mendeleevsky St. 5, LENINGRAD 199164, U.S.S.R.

a Comparative study of regeneration, asexual reproduction, and somatic embryogenesis. Leucosolenia complicata, Sycon lingua, Halichondria panicea and other spp. (Porifera)

b Development of embryos cultivated in vitro. Halisarca dujardina, Baicalospongia bacillifera (Porifera)

c Genesis and evolution of ontogenesis

KORT, E. J. M. de; Dr. – Dept. of Anat. and Embryol., Cathol. Univ., Geert Grooteplein N. 21, NIJMEGEN, Netherlands

a Development of the spinal cord. Xenopus laevis (Anura)

KOŚCIELSKA, Ms. M. K.; Ph.D. – Dept. of Syst. Zool., Zool. Inst., Univ. of Wrocław, ul.Sienkiewicza 21, 50–335 WROCŁAW, Poland

a Early developmental stages, gastrulation. Ageniaspis spec., Monodontomerus spec., Dahlbominus spec. (Chalcidoidea), Pleolophus basizonus (Ichneumonidae, Hymenoptera)

b Trophic relationships between a polyembryonally developing parasitoid and its host (ultrastructure). Ageniaspis fuscicollis (Chalcidoidea, Hymenoptera), Yponomeuta malinellus (Lepidoptera)

KOŚCIELSKI, B.; Ph.D. – Inst. of Zool., Univ. of Wrocław, ul. Sienkiewicza 21, 50–335 WROCŁAW, Poland

a Embryology. (Turbellaria; Apterygota, Insecta)

b Nucleoli in oogenesis. Lymnaea spec. (Gastropoda)

KOSHELEV, B. V.; Dr.biol. – A.N. Severtzov Inst. of Evol. Morphol. and Ecol. of Animals, Acad. of Sci. of the USSR, Lenin Ave. 33, MOSCOW 117071, U.S.S.R.

a Gametogenesis, sex cycles, and spawning ecology. Abramis brama, Rutilus rutilus, Scardinius erythrophthalmus, Cyprinus carpio, Tinca tinca, Carassius carassius, Coregonus lavaretus and others (Teleostei)

KOSTOMAROVA, Ms. A. A.; Cand.biol.sci. – Koltzov's Lab. of Cell Differ., Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.

a Transcription of isolated nuclei of the early embryo. Misgurnus fossilis (Teleostei) (with C. A. KAFIANI)

b Distribution of non-histone proteins, synthesized during maturation, between nucleus and cytoplasm of early embryo. Same species as a

KOSTOVIĆ, I.; D.Sc., M.D. – Inst. of Anat. "Drago Perović", Fac. of Med., Univ. of Zagreb, Šalata 11, 41001 ZAGREB, Yugoslavia

a Morphogenesis of the mesenchyme-neuroepithelial interface (including vascularization) in the telencephalon. Rattus norvegicus (Rodentia), Homo sapiens (Primates) (with Lj. KOSTOVIĆ, Inst. of Histol. and Embryol.)

KOSTOVIĆ (KNEŽEVIĆ), Ms. Lj.; M.D. – Inst. of Histol. and Embryol., Fac. of Med., Univ. of Zagreb, Šalata 3, P.O. Box 166, 41001 ZAGREB, Yugoslavia

a Chondrogenesis in the external ear (histology, histochemistry, electron microscopy). Rattus norvegicus (Rodentia) (with A. ŠVAJGER and Ž. BRADAMANTE)

b Differentiation of the intercellular matrix during ontogenesis (histology, histochemistry, electron microscopy). Same species as a (with A. ŠVAJGER and Ž. BRADAMANTE)

c Morphogenesis of the mesenchyme-neuroepithelial interface (including vascularization) in the telencephalon. Rattus norvegicus (Rodentia), Homo sapiens (Primates) (with I. KOSTOVIĆ, Inst. of Anat.)

KOTOMIN, A. V. – Inst. of Devl. Biol., USSR Acad. of Sci., Vavilov St.26, MOSCOW 117334, U.S.S.R.

KOZIK, M.; M.D. – Inst. of Neurol. and Sensory Organs, Med. Acad., 49 Przybyszewskiego St., 60–355 POZNAŃ, Poland

a Histochemistry of glia cells in the developing nervous system. Rattus norvegicus (Rodentia), Oryctolagus cuniculus (Lagomorpha)

b Histochemical mapping of the developing brain. Rattus norvegicus (Rodentia)

KOZŁOWSKA, Ms. M.; mgr.of sci. – Dept. of Comp. Anat., Jagellonian Univ., ul.Krupnicza 50, 30–060 KRAKÓW, Poland

a Early development of muscle fibres. Salmo trutta (Teleostei)

KRÁL, B.; RNDr. – Dept. of Morphol., Inst. of Vertebr. Zool., Czechosl. Acad. of Sci., Květná 8, 60365 BRNO, Czechoslovakia

a Comparative study of chromosomes. (Insectivora; Rodentia)

KRALJ, N.; Ph.D. – Dept. of Zool., Univ. of Zagreb, Rooseveltov trg 6, 41000 ZAGREB, Yugoslavia

KRATOCHWIL, K.; Dr.phil. – Inst. für Molekularbiol., Abt. Biol., Österreich. Akad. der Wissensch., Billrothstr. 11, 5020 SALZBURG, Austria

a Organ specificity in mesenchymal induction. Mus musculus (Rodentia)

b Embryonic development of mammary gland, especially hormone responsiveness and tissue interaction in the hormone response (androgens). Same species as a

KRAUS, Ms. C.; Dr.phil. – Brain Anat. Inst., Untere Zollgasse 71, (Waldau), 3072 OSTERMUNDIGEN-BE, Switzerland

a Descriptive and comparative ontogenesis of the brain. (Cetacea)

KRAUS, R.; M.D. – Inst. of Embryol., Charles Univ., Albertov 4, 128 00 PRAHA 2, Czechoslovakia

KRAUSE, G.; Dr.phil., Prof. (Emer.) – Zool. Inst.I der Univ., Röntgenring 10, 87 WÜRZBURG, B.R.D. (Germany)

KREDIET, P.; M.V.D. – Dept. of Anat. and Embryol., Med. Fac., Erasmus Univ., P.O.Box 1738, ROTTERDAM 3002, Netherlands

KRESS, Ms. A.; Ph.D. – Anat. Inst. der Univ., Pestalozzistr. 20, 4056 BASEL, Switzerland

a Oogenesis. (Amphibia)

b Variability of egg-capsule volumes during development. (Opisthobranchia, Gastropoda)

KRITCHINSKAYA, Ms. E. B.; Cand.biol.sci. – Dept. of Embryol., Leningrad State Univ., Mendeleevsky St. 5, LENINGRAD 199164, U.S.S.R.

a Asexual reproduction, regeneration, and somatic embryogenesis. Dugesia tigrina (Turbellaria), Aeolosoma spec. (Oligochaeta)

KRMPOTIĆ-NEMANIĆ, Ms. J.; Prof. – Inst. of Anat. "Drago Perović", Fac. of Med., Univ. of Zagreb, Šalata 11, 41001 ZAGREB, Yugoslavia

KROEGER, H.; Dr.rer.nat., Prof. – Inst. für Genet., Univ. des Saarlandes, 66 SAARBRÜCKEN 11, B.R.D. (Germany)

a Puffing patterns in giant chromosomes and the mechanism by which they are evoked and controlled. Chironomus thummi, Ch. tentans (Diptera)

b Embryology and genetics of pattern formation. Drosophila melanogaster (Diptera)

KRUCHKOVA, Ms. G. A. – Lab. of Embryol., Inst. of Marine Biol., Far East Sci. Ctr., Acad. of Sci. of the USSR, VLADIVOSTOK 690022, U.S.S.R.

a Larval development and metamorphosis. (Echinoidea)

KRZANOWSKA, Ms. H.; Ph.D. – Dept. of Genet. and Evolut., Jagellonian Univ., Krupnicza 50, 30–060 KRAKÓW, Poland

a Studies of heterosis: sperm characters, fertilization, and cleavage rate in inbred and crossbred animals. Mus musculus (Rodentia)

KRZYSZTOFOWICZ, Ms. A.; D.Sc. – Zool. Dept., Jagellonian Univ., ul.Krupnicza 50, KRAKÓW, Poland

a Oogenesis and embryonic development. Tetrodontophora bielanensis (Collembola)

KUBLI, E.; Dr.Phil. – Zool.-Vergl. Anat. Inst., Univ. Zürich, Künstlergasse 16, 8006 ZÜRICH, Switzerland

a Nucleic acids of various mutants. Drosophila melanogaster (Diptera)

b tRNA gene localization, mechanisms of suppression, tRNA precursors. Same species as a

KUCIAS, J.; Ph.D. – Dept. of Gen. Biol., Inst. of Biol. and Morphol., Silesian Acad. of Med., ul.K.Marksa 19, 41–808 ZABRZE, Poland

a Negentropy and physical entropy during cell differentiation. Rattus norvegicus (Rodentia), Hydra vulgaris, H. viridissima (Hydrozoa)

KUDOKOTSEV, V. P.; Dr. – Dept. of Biol., Kharkov State Univ., Dzerjinsky Square 4, KHARKOV, U.S.S.R.

KUHN, H.-J.; Dr.med., Prof. – Anat. Inst. der Univ., Kreuzbergring 36, 34 GÖTTINGEN, B.R.D. (Germany)

KUHN, O.; Dr.rer.nat., Prof. (Emer.) – Zool. Inst. der Univ., Weyertal 119, 5000 KÖLN 41, B.R.D. (Germany)

KÜHNEL, W.; Dr.med., Prof. – Abt. Anat. der Rhein.-Westf. Techn. Hochschule, Med.-Theor. Inst., Melatener Str.211, 5100 AACHEN, B.R.D. (Germany)

a Structure and function of the foetal membranes (morphology, histochemistry). Oryctolagus cuniculus (Lagomorpha)

b Morphology of preimplantation stages and their endocrinological developmental control. Cavia porcellus, Rattus spec. (Rodentia), Oryctolagus cuniculus (Lagomorpha)

c Morphology and histochemistry of the female genital tract and of accessory male genital glands during development. Same species as a

KUJAT, R.; M.Sc. – Dept. of Comp. Anat., Jagellonian Univ., ul.Krupnicza 50, 30–060 KRAKÓW, Poland

a Development of the intestine. Xenopus laevis (Anura)

KULIKOVA, Ms. V. A. – Lab. of Embryol., Inst. of Marine Biol., Far East Sci. Ctr., Acad. of Sci. of the USSR, VLADIVOSTOK 690022, U.S.S.R.

a Larval development. marine spp. (Lamellibranchia)

KUNZ, W.; Dr., Prof. – Inst. für Allgem. Biol., Univ. Düsseldorf, Universitätsstr. 1, 4000 DÜSSELDORF, B.R.D. (Germany)

a Replication of satellite DNA during polyploidization and differentiation of diploid tissues. Drosophila virilis (Diptera)

b Magnification of ribosomal DNA in the Y chromosome (filter saturation hybridization). Drosophila hydei (Diptera)

KURRAT, H.-J.; Dr.rer.nat. – Anat. Inst. der Univ., Lindenburg, 5 KÖLN 41, B.R.D. (Germany)

a Segregation of the central nervous system; analysis of induction. Ambystoma mexicanum (Urodela)

b Influence of neural material on the mesodermal differentiation pattern. Same species as a

KURULASHVILI, Ms. L. I. – Dept. of Anim. Embryol., Inst. of Zool., Acad. of Sci. of the Georgian SSR, 31 Chavchavadze Ave., TBILISI 380030, U.S.S.R.

KÜTHE, H. W.; Dr.rer.nat., Prof. – Fachber. Biol. der Univ., Lahnberge, 355 MARBURG 1, B.R.D. (Germany)

a Makromolekulare Syntheseprozesse während Determination und Differenzierung im Embryo. (Holometabola, Insecta)

KVINNSLAND, S.; Dr.odont., Assoc.Prof. – Inst. of Anat., Univ. of Bergen, Årstadvei 19, 5000 BERGEN, Norway

a Growth of cartilage (especially craniofacial) in vivo and in vitro (3H-thymidine, 35S-sulfate and 3H-proline incorporation). Rattus spec. (Rodentia)

b Growth of autotransplanted nasal septum (3H-thymidine incorporation). Same species as a

LAANE, H. M. – Anat.-Embryol. Inst., Univ. of Amsterdam, Mauritskade 61, AMSTERDAM-O., Netherlands

a Light microscopy, electron microscopy, histochemistry, physiology, and experimental teratogenesis of heart development in the embryo. Gallus domesticus (Aves), Mus musculus (Rodentia) (with J. A. ROEST and J. A. LOS)

LAAT, S. W. de; Ph.D. – Hubrecht Lab. (Intern. Embryol. Inst.), Uppsalalaan 8, 3584 CT UTRECHT, Netherlands

a Regulation of the cell cycle and its significance tor development and differentiation: the role of changes in membrane properties and structure, ion and cyclic nucleotide metabolism. Neuroblastoma cells, Mus musculus (Rodentia) (with J. G. BLUEMINK, P. T. van der SAAG, W. H. MOOLENAAR and S. A. NELEMANS)

LABORDUS, V.; Ph.D. – Zool. Lab., State Univ. of Utrecht, Transitorium III, Padualaan 8, UTRECHT, Netherlands

a Effect of total and partial UV-irradiation on cleavage and morphogenesis. Lymnaea stagnalis, Bithynia tentaculata, Crepidula fornicata (Gastropoda)

b Repair processes in eggs after UV-irradiation. Lymnaea stagnalis (Gastropoda)

LABOUR, G. R. – Lab. de Zool., Univ. de Paris XI, Centre d'Orsay, 91405 ORSAY, France

a Cytology of fat body development, with special reference to cell ultrastructure and cytochemistry. Leptinotarsa decemlineata (Coleoptera)

LABROUSSE, J. P.; Dr.3e Cycle – Lab. de Biol. du Dévl., Univ. Paris V (René Descartes), 45 rue des Sts.Pères, 75270 PARIS Cedex 06, France

a Gene amplification in oocytes. Pleurodeles waltl (Urodela)

LABROUSSE, Ms. M.; D.Sc. – Lab. de Biol. Anim., Univ. Paris VI (P. et M. Curie), 4 place Jussieu, 75230 PARIS Cedex 05, France

a Cytogenetics. (Amphibia)

LACROIX, J. C.; Prof. – Lab. de Génét. du Dévl., Univ. P. et M. Curie, Centre de Rech. d'Ivry, 67 rue M.Günsbourg, 94200 IVRY-sur-SEINE, France

a Organization and physiology of lampbrush chromosomes; involvement of lampbrush chromosomal RNA in oogenesis and embryogenesis. Pleurodeles poireti, P. waltl (Urodela)

LAFONT, R. D. A.; M.Sc. – Lab. de Zool., École Norm. Supér., 46 rue d'Ulm, 75230 PARIS Cedex 05, France

a Differentiation of imaginal wing discs: nucleic acid metabolism, changes in enzyme titers. Pieris brassicae (Lepidoptera)

b Ecdysone and juvenile hormone levels during development. Same species as a
c In vitro ecdysone binding and action. Same species as a

LAKSHMI, Ms. M. S.; Ph.D. – Dept. of Biochem. Pathol., Univ. Coll. Hosp. Med. School, University St., LONDON WC1E 6JJ, England
a Morphogenetic effects of follicle-stimulating hormone. Gallus domesticus (Aves) (with G. V. SHERBET)
b Biochemical and biophysical characterization of the cell surface using natural pH gradients. (with G. V. SHERBET)
c Epigenetic mechanisms and paraneoplastic phenomena. (with G. V. SHERBET)

LALLIER, R. A.; D.Sc. – Station Zool., Univ. de Paris VI, 06230 VILLEFRANCHE SUR MER, France
a Biochemical aspects of embryonic determination (studies of animalizing and vegetalizing agents). Paracentrotus lividus (Echinoidea)

LAMERS, W. H. – Anat.-Embryol. Inst., Univ. of Amsterdam, Mauritskade 61, AMSTERDAM-O., Netherlands
a Developmental changes in activity of liver carbamylphosphate syntase. Ambystoma mexicanum (Urodela)

LANDAUER, W.; Ph.D., Prof. – Dept. of Human Genet. and Biometry, Univ. Coll. London, Wolfson House, 4 Stephenson Way, LONDON NW1 2HE, England
a A causal analysis of teratogenic action of various chemical compounds. Gallus domesticus (Aves)
b Cholinomimetic substances and other compounds interfering with neuromuscular development. Same species as a

LANDSTRÖM, U. – Dept. of Zoophysiol., Univ. of Umeå S 901 87 UMEÅ, Sweden
a Cell transformation and cell differentiation. Xenopus laevis (Anura), Ambystoma mexicanum (Urodela) (with S. and H. LØVTRUP)

LANG, A.; M.Sc. – Inst. of Cell Biol., Swiss Fed. Inst. of Technol., Hönggerberg, 8093 ZÜRICH, Switzerland
a In vitro myogenesis. Drosophila spec. (Diptera)

LANOT, R.; Dr.Sc. – Lab. de Zool., Univ. de Nancy I, C.O.140, 54037 NANCY Cedex, France
a Axial malformations: causal analysis of the teratogenic action of trypan blue and RNAse. Gallus gallus (Aves)
b Causal analysis of somitogenesis. Same species as a
c Morphology of normal and experimentally produced cell degeneration in the axial organs. Same species as a
d Causal analysis of early angiogenesis. Same species as a

LANSDOWN, A. B. G.; Ph.D. – Clin. Res. Ctr., Northwick Park Hosp., Watford Rd., HARROW HA1 3UJ, Middlesex, England
a Effect of viral infections on foetal and neonatal development. Rattus spec., Mus musculus (Rodentia)
b Effect of pancreatitis on pregnancy
c Effect of prenatal growth retardation on postnatal development
d Effect of exposure to anaesthetics (halothane, nitrous oxide) on pregnancy. Rattus spec., Homo sapiens and other spp. (Mammalia)

LARDÉ, Ms. P.; Dr.méd. – Lab. d'Embryol., Univ. de Nancy I, B.P.1080, 54019 NANCY Cedex, France
a Development of inferior vena cava. Homo sapiens (Primates)

LARINK, O.; Dr. – Zool. Inst. der Techn. Univ., Pockelstr. 10a, 3300 BRAUNSCHWEIG, B.R.D. (Germany)
a Descriptive study of postembryonic development, especially moulting, ultrastructural changes of sensilla. Lepismatidae, Machilidae (Thysanura, Insecta)

LA SPINA (D'ANNA), Ms. R.; D.Sci. – Ist. di Zool., Univ. di Palermo, Via Archirafi 18, 90123 PALERMO, Italy
a Fine structure of unfertilized eggs and egg fragments. 'Ascidia malaca, Phallusia mamillata (Ascidiacea)
b Analysis of colour pattern; ultrastructure of chromatophores. Discoglossus pictus (Anura)

LASSAK, H. F.; Dipl.Biol. – Inst. für Allgem. Biol. der Univ., Universitätsstr. 1, 4000 DÜSSELDORF, B.R.D. (Germany)
a Isolation and characterization of messenger RNA, messenger ribonucleoproteins and polyribosomes. Drosophila hydei (Diptera), Locusta migratoria (Orthoptera)

LASSÈGUES (FLAMAND), Ms. M.; Dr.Biol.anim. – Lab. de Zool. Exp., Univ. de Bordeaux I, Av. des Facultés, 33405 TALENCE, France
a Embryology. Sphaeroma spec. (Isopoda, Crustacea) (with N. DAGUERRE de HUREAUX)
b Cytophotometry of cell cycle during the first embryonic stages. Same species as a

LATTAUD, C. – Lab. Sex. et Reprod. des Invertébr., Univ. Paris VI (P. et M. Curie), Bât.A, 7e étage, 4 place Jussieu, 75230 PARIS Cedex 05, France
a Control of sex differentiation and gametogenesis (organ culture). Eisenia foetida (Oligochaeta)
b Effects of inhibition of protein synthesis by cycloheximide in sexually active animals. Same species as a

LAUGÉ, Ms. G.; D.Sc. – Lab. d'Entomol. et d'Ecophysiol. Exp., Univ. de Paris XI (Paris-Sud), Bât.446, 91405 ORSAY, France

LAUTHIER, M.; Dr.3è cycle – Lab. d'Embryol. Exp., Centre de Rech. du CNRS, 67 rue Maurice Günsbourg, 94200 IVRY-sur-SEINE, France

a Organogenèse des membres (histochimie, microchirurgie, cytologie ultrastructurale, tératogenèse expérimentale). Pleurodeles waltl (Urodela)

LAVERDURE, Ms. A.-M. – Lab. de Biol. Anim. A, Fac. des Sci., Univ. Paris-Sud, Bât. 445, 91405 ORSAY, France

LAWRENCE, A. J.; Ph.D. – Dept. of Cell Biol., Univ. of Glasgow, GLASGOW G11 6NU, Scotland, U.K

a Control and temperature dependence of phospholipase activity in cell membranes; role of lipid degradation in membrane fusion; lipid segregation in membranes. Oryctolagus cuniculus (Lagomorpha)

LAWRENCE, P. A.; Ph.D. – Lab. of Molec. Biol., Med. Res. Counc., Hills Rd., CAMBRIDGE CB2 2QH, England

a Compartments in insect development. Drosophila melanogaster (Diptera), Oncopeltus fasciatus (Heteroptera)

b Developmental genetics of homoeotic mutants. Same species as b

LAWSON, Ms. K. A.; Ph.D. – Hubrecht Lab. (Intern. Embryol. Inst.), Uppsalalaan 8, 3584 CT UTRECHT, Netherlands

a Morphogenetic and growth control of salivary gland, lung and metanephros in vitro. Rattus norvegicus, Mus musculus (Rodentia)

LAZARD (HAUBEN), Ms. L.; D.Sc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, NOGENT-sur-MARNE, France

a Degeneration of male germ cells in some t mutants; their possible transformation in tumorigenic cells: growth in vitro, transplantation in vitro, antigenic affinity with embryocarcinomal cell lines originating from germ cells (as F 9 from mouse 129). Mus musculus (Rodentia)

b Retro-transformation of a teratocarcinomal cell line of germinal origin, grown in vitro, into cells having recovered spermatogenetic abilities. Same species as a

LE DOUARIN (CHAUVAC), Ms. N. M.; D.Sc., Prof. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France

a Migration and differentiation of neural crest cells (interspecific grafts). Gallus gallus, Coturnix c. japonica (Aves)

b Differentiation of the autonomic nervous system studied in chimeric embryos. Same species as a

c Development of primary lymphoid organs. Same species as a

d Migration and homing of lymphoid stem cells studied in embryos by interspecific chimeras. Same species as a

e Experiments on liver development. Same species as a

LEENDERS, H. J.; Dr. – Dept. of Genet., Cathol. Univ., Toernooiveld, NIJMEGEN, Netherlands

a The mechanism of gene activation by factors involved in respiratory metabolism; experimental puff induction. Drosophila hydei (Diptera)

LEES, A. D.; Sc.D., Prof. – Dept. of Zool. and Appl. Entomol., Imperial Coll., Field Station, Silwood Park, ASCOT, Berks. SL5 7DE, England

a Control of polymorphic development with special reference to environmental factors and hormones. Megoura viciae (Aphididae, Homoptera)

LEEUWEN, F. W. van; Drs. – Netherl. Inst. for Brain Res., IJdijk 28, AMSTERDAM, Netherlands

a Interaction with hormones during maturation and adaptation of the nervous system. Rattus norvegicus (Rodentia), Homo sapiens (Primates)

LEFFORD (FERNANDO), Ms. F.; Ph.D. – Dept. of Anat. and Embryol., Univ. Coll. London, Gower St., LONDON WC1E 6BT, England

a Migratory behaviour of cells in vitro

LEFRESNE, J.; M.Sc. – Lab. d'Embryol., U.E.R. de Sci., Univ. de Caen, 14032 CAEN, France

a Étude expérimentale de la segmentation. Ambystoma mexicanum (Urodela)

LE GARFF, B.; Dr. 3e cycle – Lab. de Biol. Anim. 1er Cycle, Univ. de Rennes, Av. du Gén. Leclerc, 35031 RENNES Cedex, France

a Development of malpighian system during larval life and metamorphosis: normal development; nutritional factor; transplantation; culture in vitro. Galleria mellonella (Lepidoptera)

b Comparative research of the development of malpighian system. Tineidae and other families (Lepidoptera)

LEGAY, J. M.; D.Sc., Prof. – Dépt. de Biol. Gén. et Appl., Univ. de Lyon I, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France

a Morphogenesis. Bombyx mori (Lepidoptera)

LEGENDRE, R.; Dr.rer.nat., D.Sc., Prof. – Lab. de Zool. II (Morphol. et Écol.), Univ. des Sci. et Techn. du Languedoc, place E. Bataillon, 34060 MONTPELLIER, France

a Embryonic and post-embryonic development. (Araneida, Arachnida)

LEGRAND, C.; D.Sc. – Lab. de Biol. de la Reprod., Univ. Paris VI (P. et M. Curie), Bât. A, 7ème étage, 7 quai Saint-Bernard, 75230 PARIS Cedex 05, France

a Fonctions, morphogenèse et cytophysiologie du trophoblaste intra-artériel. Rattus norvegicus (Rodentia)

b Effets de l'ovariectomie tardive sur l'ultrastructure et la fonction endocrine du placenta. Même espèce comme a

LEGRAND (HAMELIN), Ms. E.; Dr., Prof. – Lab. de Physiol. et Génét. des Crustacés, Univ. de Poitiers, 40 av. du Recteur Pineau, 86022 POITIERS Cedex, France

a Contrôle génétique et humoral du sexe. Idotea balthica (Isopoda, Crustacea)

b Effect of temperature, photoperiod and salinity on inversion of sex and intersexuality. Same species as a

LEGRAND, J. J.; Dr., Prof. – Lab. de Physiol. et Génét. des Crustacés, Univ. de Poitiers, 40 av. du Recteur Pineau, 86022 POITIERS Cedex, France

a Contrôle génétique, épigénétique et humoral du sexe chez des espèces gonochoriques. Porcellio dilatatus, Armadillidium vulgare (Isopoda, Crustacea)
b Action at cellular and organic level of infectious agents (bacteroids, virus) and of external factors (temperature, photoperiod) on inversion of sex and intersexuality. Same species as a

LEGRELE, C.; Dr.3e cycle – Lab. de Physiol. Anim., Univ. de Reims, B.P. 347, 51062 REIMS Cedex, France
a Pre- and postnatal functional maturation of the hepatocyte. Rattus norvegicus (Rodentia) (with J. M. FELIX and R. L. JACQUOT)

LEHMANN, K.; Dr.rer.nat. – Lehrst. Exper. Morphol., Zool. Inst. der Univ. Weyertal 119, 5000 KÖLN 41, B.R.D. (Germany)
a Structural and biochemical aspects of flight muscle protein development and z-disc during metamorphosis. Ephestia kühniella, Galleria mellonella (Lepidoptera)

LEHTONEN, E. I.; M.D. – Lab. of Exp. Embryol., III. Dept. of Pathol., Univ. of Helsinki, Haartmaninkatu 3, 00290 HELSINKI 29, Finland
a Mechanism of kidney tubulogenesis. Mus musculus (Rodentia) (with L. O. SAXÉN, J. J. WARTIOVAARA, S. NORDLING, P. EKBLOM and J. SALONEN)

LEHTONEN, J. – Dept. of Bot., Univ. of Turku, 20500 TURKU 50, Finland

LEIBENGUTH, F.; Dr.rer.nat., Prof. – Inst. für Genet., Univ. des Saarlandes, 66 SAARBRÜCKEN 11, B.R.D. (Germany)
a Mechanisms controlling ontogeny and tissue distribution of isoenzyme patterns by differential allele activity. Ephestia (= Anagasta) kühniella (Lepidoptera)
b Onset of embryonic gene expression in vivo and in vitro. Drosophila melanogaster (Diptera)

LEIKOLA, A. H. A.; Ph.D. – Lab. of Exp. Embryol., Dept. of Zool., Univ. of Helsinki, Arkadiankatu 7, 00100 HELSINKI 10, Finland
a Primary determination during gastrulation. Gallus domesticus, Coturnix coturnix (Aves)

LELIEVRE, Ms. C. S. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Early determination of neural crest derivatives, especially mesectodermal and ganglion derivatives. Gallus gallus, Coturnix c. japonica (Aves)

LEMEŽ, L.; MUDr., Doc. – Dept. of Anat., Charles Univ., U nemocnice 3, 12800 PRAHA 2, Czechoslovakia
a Experimental topogenesis and morphology of the pneumogastric system. Gallus domesticus (Aves)
b Thrombocyte development. Same species as a
c Erythrocyte life span in the embryo. Same species as a

LE MOIGNE, A.; Prof. – Lab. de Biol. Anim., Univ. Paris XII (Val de Marne), av. du Gén. de Gaulle, 94000 CRÉTEIL, France
a Développement embryonnaire (microscopie électronique). (Planariidae, Turbellaria)
b RNA and protein synthesis, and cellular differentiation in regeneration (electron microscopy, biochemistry). Same species as a
c Activity of enzymes governing DNA synthesis during regeneration. Same species as a

LEMTIS, H. G.; Dr.med., Prof. – Spec. Team of Exp. Gynecol. of the Dept. of Obstet. and Gynecol., Klin. Steglitz, Free Univ. of Berlin, Hindenburgdamm 30, 1 BERLIN 45, B.R.D. (Germany)
a Architecture of the fetal and maternal placental blood vessels (corrosion preparations), and correlation of abnormal placental circulation with congenital malformations. Homo sapiens (Primates)

LENDER, Th.; Prof. – Lab. de Biol. Anim. A, Fac. des Sci., Univ. Paris-Sud, Bât. 445, 91405 ORSAY, France

LENDON, R. G.; Ph.D. – Dept. of Anat., The Univ., Stopford Bldg., Oxford Rd., MANCHESTER M13 9PT, England
a Embryogenesis of trypan blue induced spina bifida, exencephalus and facial abnormalities. Rattus norvegicus (Rodentia)
b Effect of vitamin deficiency on the incidence of congenital malformations. Same species as a

LENICQUE, P. M.; D.Sc. – Lab. de Biol. des Invert. Marins et Malacol., Museum Natl. d'Hist. Nat., 57 rue Cuvier, 75005 PARIS, France
a Control of regeneration by some first messengers (neurohormones, polypeptides) and second messengers (nucleotides). Dugesia tigrina (Turbellaria), Metridium senile (Actinozoa)

LENZ, W.; Dr.med., Prof. – Inst. für Humangenet., Westf. Wilhelms Univ., Vesaliusweg 12–14, 4400 MÜNSTER, B.R.D. (Germany)
a Classification problems of asymmetrical limb malformations. Homo sapiens (Primates)

LE PENNEC, M. L. M.; Dr.3e Cycle – Lab. de Zool., Univ. de Bretagne Occidentale, 6 av. le Gorgeu, 29283 BREST Cedex, France
a Laboratory rearing of larvae and juveniles. Various spp. (Lamellibranchia)
b Morphogenesis of the hinge in larvae. Veneridae, Pectinidae, Mytilidae, Ostreidae, Anomiidae and others (Lamellibranchia)

LEPORI, N. G.; Prof. – Ist. di Zool., Univ. di Sassari, Via Murroni 25, 07100 SASSARI, Italy

LE ROUX, Ms. S.; D.E.A. – Lab. de Zool., Univ. de Bretagne Occidentale, 6 av. le Gorgeu, 29283 BREST Cedex, France
a Larval growth: 1. effect of feeding unicellular algae; 2. effect of hydrocarbons. Mytilus edulis, Pecten maximus (Lamellibranchia)

LESCHER-MOUTOUÉ, Ms. F. – Lab. Souterrain, Centre Natl. Rech. Scient., 09410 MOULIS, France
a Reproduction, life cycle, and postembryonic development, especially of hypogeous species: Speocyclops spp., Graeteriella spp., Diacyclops spp., Eucyclops spp. (Copepoda, Crustacea)

LESTAGE, J.; Dr.biol.anim. – Lab. de Biol. Anim. A, Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE Cedex, France
a Étude expérimentale de l'influence des facteurs nutritionnels sur la morphogenèse du tube digestif et du pancréas. Rana dalmatina, Bufo bufo, Discoglossus pictus, Xenopus laevis (Anura). Triturus helveticus, Salamandra salamandra (Urodela)
b Modifications des patterns enzymatiques au cours de la différenciation des cellules intestinales. Bufo bufo, Xenopus laevis (Anura)
LEVAK (ŠVAJGER), Ms. B.; D.Sc. – Inst. of Biol., Fac. of Med., Univ. of Zagreb, Šalata 3, P.O. Box 166, 41001 ZAGREB, Yugoslavia
a Early differentiation; transplantation, in vitro culture. Rattus norvegicus (Rodentia) (with N. ŠKREB and A. ŠVAJGER (Inst. of Histol. and Embryol.))
LEVIS, A. G.; Prof. – Ist. di Biol. Anim., Univ. di Padova, Via Loredan 10, 35100 PADOVA, Italy
no embryological work in progress
LEWIS, J. H.; D.Phil. – Dept. of Biol. as Appl. to Med., Middlesex Hosp. Med. Sch., LONDON W1P 6DB, England
a Limb development, especially innervation. Gallus domesticus (Aves)
b Mathematical problems in pattern formation
LEZZI, M.;Dr.sci.nat. – Inst. of Cell Biol., Swiss Fed. Inst. of Technol., Hönggerberg, 8093 ZÜRICH, Switzerland
a Effect of hormones and ions on gene function. Chironomidae (Diptera)
LHEUREUX, E. – Serv. de Biol. Anim., Univ. des Sci. et Techn. de Lille, B.P. 36, 59650 VILLENEUVE D'ASCQ, France
a The fate of different tissues in regenerated limb. Pleurodeles waltl (Urodela)
LIERSE, W.; Dr.med., Prof. – Abt. Neuroanat., Anat. Inst. der Univ., Martinistrasse 52, 2 HAMBURG 20, B.R.D. (Germany)
a Ultrastructure and histochemistry of brain and retina development. Cavia porcellus, Rattus spec. (Rodentia)
b The biological aspect of neuroblast and glioblast following x-irradiation and hyperbaric oxygenation. Same species as a
c The development of vascularization of the brain. Cavia porcellus, Rattus spec. (Rodentia), Canis familiaris (Carnivora), Homo sapiens (Primates)
d Teratology of retina and brain. Rattus spec. (Rodentia)
LIMBORGH, J. van; M.D., Prof. – Anat.-Embryol. Inst., Univ. of Amsterdam, Mauritskade 61, AMSTERDAM-O., Netherlands
a Sex differentiation. Anas boschas (Aves)
b Morphogenesis of the skull. Gallus domesticus (Aves)
c Development of the harelip condition (descriptive studies). Homo sapiens (Primates)
LINDE, L. A.; Dr.Odont. – Dept. of Histol., Lab. of Oral Biol., Univ. of Göteborg, Fack, 400 33 GÖTEBORG 33, Sweden
a Tooth calcification studied by microdissection and microchemistry: 1. Glycosaminoglycans, proteins and glycoproteins in the odontoblast-predentine layer; 2. Odontoblastic enzymes in proteoglycan degradation and phosphate release. Rattus spec. (Rodentia), Oryctolagus cuniculus (Lagomorpha)
LINDENMAYER, A.; Ph.D., Prof. – Theor. Biol. Group, State Univ. of Utrecht, Padualaan 8, UTRECHT, Netherlands
a Morphogenetic processes giving rise to phyllotactic patterns of the shoot apex. (Pteridophyta; Spermatophyta)
b Developmental algorithms for cell lineage and cellular interactions considered from the point of view of automata and language theory
c Mathematical models for vegetative and flowering development in complex inflorescences. (Compositae)
d Computer simulation of distribution of cell cycle phases in growing roots. (Gramineae)
e Graph-generating systems as models of multidimensional development, particularly of hexagonally packed cellular sheets: wing (Drosophila spec., Diptera); retina (Gallus gallus, Aves)
LINDSAY, Ms. F. E. F.; M.R.C.V.S. – Anat. Dept., Vet. Sch., Univ. of Glasgow, Bearsden Rd., GLASGOW G6 1IQH, Scotland, U.K.
LINSKENS, H. F.; Dr., Prof. – Dept. of Bot., Sect. Molec. Developm. Biol., Cathol. Univ., Toernooiveld, NIJMEGEN, Netherlands
a Physiological and biochemical mechanism of the fertilization barrier during pollen tube growth, pollen germination, and in the ovule. Petunia spec. (Solanaceae), Lilium spec. (Liliaceae)
b Induction of meiotic division. Ulva spec. (Chlorophyceae), Lilium spec. (Liliaceae)
c Dormancy. Agrostemma githago (Caryophyllaceae)
LIOSNER, L. D.; Dr.biol., Prof. – Inst. of Human Morphol., Acad. of Med. Sci. of the USSR, Tsurupa St. 3, MOSCOW 117469, U.S.S.R.
a Mechanisms controlling the restoration of inner organs. Rattus norvegicus, Mus musculus (Rodentia)
LISSIA (FRAU), Ms. A. M.; Dr. – Ist. di Zool., Univ. di Sassari, Via Murroni 25, 07100 SASSARI, Italy
LITVAC, B.; † M.D. – Dept. of Med. Biol., Med. School, TIMIŞOARA, Rumania
LIWSKA, Ms. J.; Dr.Biol. – Dept. of Histol. and Embryol., Warsaw Agric. Univ., ul.Nowoursynowska 166, 02–766 WARSZAWA, Poland
a Ultrastructure of hypophysis development in the embryo. Sus scrofa domesticus (Artiodactyla)
LÖFBERG, J. E.; Ph.D. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden

a Extracellular matrix fibrils as substrata for migrating neural crest cells and extending neurites in embryos (SEM, TEM). (Amphibia)

LOHMANN, K.; Dr.rer.nat. – Zool. Inst. der Univ., Weyertal 119, 5000 KÖLN 41, B.R.D. (Germany)

a Cytochemistry and biochemistry of gene activation during gastrulation and neurulation, especially gene amplification and nucleic acid synthesis. Triturus vulgaris (Urodela)

b DNA, RNA and protein synthesis in the cell cycle of embryonic cells. Same species as a

LOMBARD (DES GOUTTES), Ms. M. N.; D.Sc. – Unité de Physiol. Cell., U 22 INSERM, Inst. du Radium, Bât. 110, 91405 ORSAY, France

a Steroidogenetic cells in developing ovary (cytology, light and electron microscopy, histochemistry of delta-5-3-beta-hydroxysteroid dehydrogenase). Mus musculus (Rodentia)

b Factors affecting in vitro 3H-thymidine uptake by embryonic and post-embryonic hepatic cells. Rattus norvegicus (Rodentia)

c Serum and liver cytosol factors affecting cell cycle frequency of hepatocytes during postnatal development. Same species as b

d Sex-related responses to in vivo stimulation of cell proliferation in the liver. Same species as b

e Postnatal plasmatic hormone level variations in relation with experimental induction of a wave of synchronized hepatocytes entering a cell cycle (S-phase). Same species as b

LØNNING (VADER), Ms. S.; Dr.phil. – Inst. of Biol. and Geol., Univ. of Tromsö, 9001 TROMSO, Norway

LOON, L. C. van; Dr., Ir. – Dept. of Plant Physiol., Agric. Univ., Arboretumlaan 4, WAGENINGEN, Netherlands

LOONES, Ms. M. T.; Dr.3e Cycle – Lab. de Génét. du Dévl., Univ. P. et M. Curie, Ctr. de Rech. d'Ivry, 67 rue M. Günsbourg, 94200 IVRY-sur-SEINE, France

a Spontaneous and induced mutations detected on lampbrush chromosomes and their relationship with embryogenesis. Pleurodeles poireti, P. waltl (Urodela)

LOPASHOV, G. V.; Dr.biol., Prof. – Inst. of Developm. Biol., Acad. of Sci. of the U.S.S.R., Vavilov St. 26, MOSCOW 117334, U.S.S.R.

a Inductive interactions of the cells in differentiating retina by means of combinations of cells of the eye rudiment and the gastrula ectoderm. Rana temporaria, Xenopus laevis (Anura)

b Stimulation of metaplasia of the pure pigmented epithelium of adults into retina by means of agents from newly differentiated retina. (Rodentia) (with A. A. SOLOGUB)

c Inductive transformation of iris and pigment epithelium into lens tissue by agents from lens epithelium. Rana temporaria (Anura) (with O. A. HOPERSKAYA)

d Artificial transformation of nucleo-cytoplasmic fragments under the action of living retina. Same species as c

LOS, J. A.; M.D. – Anat.-Embryol. Inst., Univ. of Amsterdam, Mauritskade 61, AMSTERDAM-O., Netherlands

a Light microscopy, electron microscopy, histochemistry, physiology, and experimental teratogenesis of heart development in the embryo. Gallus domesticus (Aves), Mus musculus (Rodentia) (with H. M. LAANE and J. A. ROEST)

b Cell interactions in the embryonic heart. Gallus domesticus (Aves) (with J. A. ROEST)

LOUVET, J. P.; Dr.Biol.anim. – Lab. de Zool. Exp., Univ. de Bordeaux I, Av. des Facultés, 33405 TALENCE, France

a Ultrastructure of the differentiation of ectodermal derivatives of the germ band. Carausius spec. (Phasmida)

b Segment morphogenesis and neurogenesis. Same species as a

c Comparative ultrastructural study of the pleuropodium. Carausius spec. (Phasmida), Locusta spec. (Orthoptera), Rhizotrogus spec. (Coleoptera), Pyrrhocoris spec. (Heteroptera)

LØVTRUP (REIN), Ms. H.; Fil.Dr. – Dept. of Zoophysiol., Univ. of Umeå, 90187 UMEÅ, Sweden

a Mitochondrial differentiation during early ontogenesis. Xenopus laevis (Anura)

b Cell transformation and cell differentiation. Same species as a and Ambystoma mexicanum (Urodela) (with S. LØVTRUP and U. LANDSTRÖM)

c Metabolic processes during early development (glycolysis, pentose phosphate shunt and oxidative metabolism). Same species as a

LØVTRUP, S.; Dr.phil., Prof. – Dept. of Zoophysiol., Univ. of Umeå, 90187 UMEÅ, Sweden

a Cell transformation and cell differentiation. Xenopus laevis (Anura), Ambystoma mexicanum (Urodela) (with H. LØVTRUP and U. LANDSTRÖM)

b Differentiation of mitochondria. Xenopus laevis (Anura) (with H. LØVTRUP)

LUBSEN, Ms. N. H.; Dr. – Dept. of Genet., Cathol. Univ., Toernooiveld, NIJMEGEN, Netherlands

a Composition and function of primary gene products from newly activated puffs. Drosophila hydei (Diptera)

LUCAS, A.; Dr.Sci., Prof. – Lab. de Zool., Univ. de Bretagne Occidentale, 6 av. le Gorgeu, 29283 BREST Cedex, France

a Experimental rearing of larvae; effect of pollutants and nutrition on growth and mortality. Mytilus edulis, Pectinidae, Veneridae (Lamellibranchia)

b Morphogenesis of reproductive apparatus: gonad differentiation; juvenile sexuality. (Lamellibranchia)

LUCEY, E. C. A.; B.Sc. – Res. Film Unit., Inst. of Anim. Genet., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JN, Scotland, U.K.

a Film of normal development. Gallus domesticus (Aves)

b Technique of in vitro culture of embryo; descriptive material covering first 72 hours of development in vitro. Same species as a

c Film showing nuclear transfer technique. (Amphibia)

d Differentiation and cell interactions in vitro of normal and abnormal ocular epithelium. Gallus

domesticus (Aves), Mus musculus (Rodentia)

LUDWIG, K. S.; Dr.med., Prof. – Anat. Inst. der Univ., Pestalozzistr. 20, 4056 BASEL, Switzerland

a Histochemistry of ripening ovarian follicles and the influence of steroid hormones. Rattus spec., Mesocricetus auratus (Rodentia), Homo sapiens (Primates)

LÜGER, O.; Dr. – Inst. für Molek.biol., Abt. Biol., Österreich. Akad. der Wissensch., Billrothstr, 11, 5020 SALZBURG, Austria

a Control of differentiation and DNA synthesis in heterokaryons and cell hybrids. (Aves; Mammalia)

b Muscle differentiation in vitro; influence of fusion with somatic cells. (Aves; Mammalia)

LUI, A.; Dr.biol., Prof. – Dept. of Zool., Univ. of Zagreb, Rooseveltov trg 6, 41000 ZAGREB, Yugoslavia

LUKE, D. A.; DOrthRCS – Dept. of Oral Anat., Dental School, Northumberland Rd., NEWCASTLE upon Tyne NE1 8TA, England

a Effects of steroid hormones on oral mucosa in vitro. Mus musculus (Rodentia)

b Effect of mast cell degranulation on proliferation in oral epithelium. Same species as a

LUNDQUIST, A.; Fil. Mag. – Zoophysiol. Inst., Univ. of Lund, Helgonavägen 3, 223 62 LUND, Sweden

LUTZ, H.; D.Sc., Prof. – Lab. de Biol. Anim., Univ. de Clermont, B.P. 45, 63170 AUBIÈRE, France

a Développement du blastoderme pendant les premières heures de l'incubation. Anas spec. (Aves)

b Culture in vitro du blastoderme. (Aves) (avec Y. LUTZ-OSTERTAG)

c Formation de l'entoblaste. (Aves)

d La polyembryonie expérimentale; l'orientation des embryons. (Aves)

e Polyembryonie expérimentale. (Salmonidae, Teleostei) (avec Y. LUTZ-OSTERTAG)

f Action des ultra-sons sur l'embryon et sur différents organes. Gallus spec. (Aves) (avec Y. LUTZ-OSTERTAG)

g Action des pesticides sur le développement de l'embryon. (Aves)

h Free-martinisme spontané. (Aves) (avec Y. LUTZ-OSTERTAG)

LUTZ (OSTERTAG), Ms. Y.; D.Sc. – Lab. de Biol. Anim., Univ. de Clermont, B.P. 45, 63170 AUBIÈRE, France

a La genèse de l'asymmétrie du tractus génital et la régression des canaux de Müller par la méthode d'explantations. Gallus spec. (Aves)

b Rôle des hormones dans la différenciation primaire du sexe. Gallus spec., Coturnix coturnix (Aves)

c Polyembryonie expérimentale. (Salmonidae, Teleostei) (avec H. LUTZ)

d Action des ultra-sons sur l'embryon et sur différents organes. Gallus spec. (Aves) (avec H. LUTZ)

e Culture in vitro du blastoderme. (Aves) (avec H. LUTZ)

f Free-martinisme spontané. (Aves) (avec H. LUTZ)

g Hybridation. Anas spec. (Aves)

h Action des pesticides sur le développement de l'embryon. (Aves)

LY THI Ba, Ms.; Dr. – Lab. de Bot., Fac. de Pharm. Paris-Sud, rue J. B. Clément, 92290 CHÂTENAY-MALABRY, France

a Comparative embryogenesis and phylogenetic relations. (Ranales; Helobiae)

b Scanning electron microscopy of embryogenesis. Potamogeton spec. (Helobiae), Helleborus spec. (Ranales)

c Experimental embryogenesis: callus formation and development, embryoid formation. Potamogeton spec. (Helobiae). Myosurus spec., Delphinium spec., Actaea spec. (Ranales)

LYON, Ms. M. F.; Sc.D. – MRC Radiobiol. Unit, Didcot, HARWELL, OX11 0RD, England

a Developmental genetics of mutant genes; X-chromosome inactivation; experimental chimaeras. Mus musculus (Rodentia)

McAVOY, J. W.; Ph.D. – Nuffield Lab. of Ophthalmol., Univ. of Oxford, Walton St., OXFORD, England

a Patterns of cell division and alpha, beta and gamma crystallin synthesis during development and growth of the lens. Rattus spec. (Rodentia)

McGEADY, T. A.; Prof. – Dept. of Vet. Anat., Univ. Coll., DUBLIN, Ireland

McGOVERN, P. T. – Dept. of Anat., Royal Vet. Coll., LONDON NW1 OTU, England

MÁCHA, J.; RNDr. – Dept. of Exp. Zool., Charles Univ., Viničná 7, 12844 PRAHA 2, Czechoslovakia

McKENZIE, J.; M.D. – Dept. of Devl. Biol., Marischal Coll., Univ. of Aberdeen, ABERDEEN AB9 1AS, Scotland, U.K.

a The metabolic characteristics of different tissues in the early embryo. Gallus gallus (Aves)

b The effects of exogenous RNA on the early embryo and cell cultures. Same species as a

c Myoblast/fibroblast relationships in monolayer cultures. Same species as a

d The state of cell differentiation in early embryos. Same species as a

e Growth and differentiation in vitro of heart muscle. Same species as a

McLAREN, Anne; Ph.D. – MRC Mammal. Devl. Unit, Univ. Coll. London, Wolfson House, 4 Stephenson Way, LONDON NW1 2HE, England

a Influence of genotype and early embryonic environment upon development, investigated by in vitro cultivation of early embryos. Mus musculus (Rodentia)

b Blastocyst-uterine interactions during the early stages of implantation, and during physiological and experimental delay of implantation. Same species as a

c Sexual differentiation and origin of coat colour patterns in experimental chimaeras formed from aggregation of embryos of different genotype. Same species as a

d Growth and differentiation of trophoblast in vivo and in vitro. Same species as a

McLEAN, J. M.; M.D. – Anat. Dept., The University, MANCHESTER M13 9PL, England

a Development of immunological mechanisms in the foetus. (Mammalia)

b Immunology of the maternal-foetal relationship. (Mammalia)

MacLEAN, N.; Ph.D. – Dept. of Biol., Univ., SOUTHAMPTON SO9 5NH, England

a Developmental changes in haemoglobin, and the control of its synthesis. Xenopus laevis (Anura), Mus musculus, Rattus spec. (Rodentia), Gallus domesticus (Aves)

b Chromatin activation and repression during development.

McMASTER, G.; Lic.biol. – Inst. Suisse de Rech. Exp. sur le Cancer, Unité de Biol. du Dévél., ch.Boveresses, 1066 EPALINGES, Switzerland

a Quantitation of total DNA, RNA and proteins, and characterization of cytoplasmic polyadenylated mRNAs in stage 1-13 blastoderm. Gallus gallus (Aves) (with S. P. MODAK)

MacMILLAN, G. J.; Ph.D. – Dept. of Devl. Biol., Marischal Coll., Univ. of Aberdeen, ABERDEEN AB9 1AS, Scotland, U.K.

a Control of pigment pattern formation: interactions among chromatoplasts and between these cells and their surrounding tissues (transplantation; tissue culture; wild-type and mutant albino periodical). Xenopus laevis (Anura)

b Determination of neural crest cells. Same species as a

MADEN, M.; B.Sc. – Devl. Biol. Group, Sch. of Biol. Sci., Univ. of Sussex, BRIGHTON BN1 9QG, England

MÄDER, M.; Dr. – Bot. Inst., Univ. Heidelberg, Hofmeisterweg 4, 69 HEIDELBERG, B.R.D. (Germany)

a Enzymatic differentiation of tissue in whole plants, tissue cultures and protoplasts; localisation of peroxidases during cell development. Nicotiana tabacum (Solanaceae)

MADJEREK, Z. S.; Dr., Prof. – Anat.-Embryol. Inst., Univ. of Amsterdam, Mauritskade 61, AMSTERDAM-O., Netherlands

a Experimental studies on genito-urinary tract development. Mus spec. (Rodentia)

b Influence of fetotoxic and teratogenic agents on decidual reaction. Rattus spec. (Rodentia)

MAEHR, R.; M.Sc. – Inst. of Cell Biol., Swiss Fed. Inst. of Technol., Hönggerberg, 8093 ZÜRICH, Switzerland

a Characterization of chromatin. Chironomus spec. (Diptera)

b Ion sensitive gene activation of polytene salivary gland nuclei determined by RNA and protein synthesis. Chironomus thummi, C. tentans (Diptera)

MAISONHAUTE, C. – Lab. de Zool., Univ. de Paris XI, Centre d'Orsay, 91405 ORSAY, France

a Effect of alpha-amanitin in early embryogenesis (cleavage till early gastrula). Leptinotarsa decemlineata (Coleoptera)

MAJORCA (MONTELEONE), Ms. A.; Dr.Sci. – Zool. Inst., Univ. of Palermo, Via Archirafi 18, 90123 PALERMO, Italy

MÄKINEN (LÖNNBERG), Ms. P.-L.; M.Sc. – Dept. of Forensic Med., Univ. of Turku, Kiinamyllynkatu 10, 20520 TURKU 52, FINLAND

a Biochemical characterization of enzymes appearing in early wound healing. Rattus spec., Cavia spec. (Rodentia) (with J. RAEKALLIO)

c Biochemistry of vascular response in experimental wound healing. Same species as a, and Homo sapiens (Primates) (with J. RAEKALLIO)

MALAPRADE, Ms. D. – Lab. d'Embryol., Univ. de Nancy I, B.P.1080, 54019 NANCY Cedex, France

a Fonction hypophysaire somatotrope au cours de la vie foetale et néonatale. Homo sapiens (Primates)

MALCHOW, D. W. H.; Ph.D. – Biozentrum der Univ. Basel, Klingelbergstr. 70, 4056 BASEL, Switzerland

a Chemotaxis and aggregation; solubilization and function of receptor. Dictyostelium discoideum (Acrasiales)

MAŁECKA, Ms. J. – Dept. of Plant Cytol. and Embryol., Inst. of Bot., Jagellonian Univ., Grodzka St.52, 31-044 KRAKÓW, Poland

MALET, P.; M.D., Prof. – Lab. d'Histol.-Embryol.-Cytogénét., Fac. de Méd., B.P.38, 63001 CLERMONT-FERRAND Cedex, France

a Morphogenesis and cytochemistry of perinatal and adult myocardium in cell culture; pharmacological study. Rattus spec. (Rodentia)

b Chromosome ultrastructure. Homo sapiens (Primates)

MALIKOVA, Ms. I. G. – Dept. of Embryol., Leningrad State Univ., Mendeleevsky St.5, LENINGRAD 199164, U.S.S.R.

a Restoration processes at different stages of ontogenesis. Dinophilus spec. (Archiannelida), Pygospio elegans (Polychaeta)

MALININA, Ms. N. A.; Cand.biol.sci. – Phenogenet. Lab., Inst. of Gen. Genet., Acad. of Sci. of USSR, Profsojuznaya St.7 (I), MOSCOW 117312, U.S.S.R.

a Developmental study of mutant gene effects on lens crystallins. Mus musculus (Rodentia)

MANCINO, G.; Dr.Biol., Prof. – Inst. of Histol. and Embryol., Univ. of Pisa, Via A.Volta 4, 56100 PISA, Italy

a Development and functionality of the gonads in hybrids. Triturus spp. (Urodela)

b Lampbrush chromosomes. Same species as a

c Chromosomal aspects of oogenesis. (Nudibranchia, Gastropoda)

MANCUSO, V.; D.Sc., Prof. – Ist. di Biol. Gen., Univ. di Palermo, Via Divisi 83, 90133 PALERMO, Italy

a Histochemistry and ultrastructure of oogenesis and embryology. (Ascidiacea) (with M. GIANGUZZA and G. DOLCEMASCOLO)

MANDARON, P. M.; D.Sc. – Lab. de Zool., Dépt. de Biol., Univ. Sci. et Méd. de Grenoble, B.P.53, 38041 GRENOBLE, France

a Mechanisms of evagination and differentiation of imaginal discs in different culture media. Drosophila melanogaster (Diptera)
b Effect of ecdysteroids on DNA, RNA, and protein synthesis in in vitro cultured imaginal discs. Same species as a
c Cell culture of imaginal discs. Same species as a
d Scanning electron microscopy of cell surface modifications during in vitro evagination of imaginal discs. Same species as a
e Microcinematography of in vitro evagination of the discs. Same species as a
f Protein synthesis during in vitro development of imaginal discs (electrophoresis). Same species as a

MANDEL, P.; Prof. – Ctr. de Neurochim., C.N.R.S., 11 rue Humann, 67085 STRASBOURG Cedex, France

MANDYSOVÁ, Ms. E.; M.D. – Inst. of Embryol., Charles Univ., Albertov 4, 128 00 PRAHA 2, Czechoslovakia
a Differentiation of small intestine epithelium during the last days of fetal development (electron microscopy). Rattus spec. (Rodentia)

MANELLI, H.; Ph.D., Prof. – Ist. di Zool. "F. Raffaele", Univ. di Roma, Viale dell'Università 32, 00161 ROMA, Italy

MANFREDI ROMANINI, Ms. M. G.; Ph.D., Prof. – Inst. of Histol., Embryol., and Anthropol., Univ. of Pavia, Piazza Botta 10, 27100 PAVIA, Italy
a Maternal malnutrition as a cause of placental insufficiency and of abnormal fetal development, especially cerebellar pre- and post-natal histogenesis (qualitative and quantitative histochemistry). Rattus rattus (Rodentia)
b Normal and pathological spermatogenesis (quantitative cytochemistry). (Mammalia)

MAŃKOWSKA, Ms. E.; Mgr. – Lab. of Exp. Embryol., Inst. of Obstet. and Gynecol., Med. Acad., Karowa 2, 00-315 WARSZAWA, Poland
a The effect of petroleum derivatives, especially xylene, on pregnancy. Rattus spec. (Rodentia)
b The effect of single free amino acids on pregnancy. Same species as a

MANN, S. L.; M.B., Ch.B. – Dept. of Anat., Med. Sci. Inst., Univ. of Dundee, Hawkhill, DUNDEE DD1 4HN, Scotland, U.K.
a Cell population and dynamics of developing nucleus habenularis (diencephalon). (Rodentia)

MANN, T. R. R.; M.D., Ph.D., D.Sc., Prof. – A.R.C. Unit of Reprod. Physiol. and Biochem., Anim. Res. Stat., 307 Huntingdon Rd., CAMBRIDGE CB3 0JQ, England

MANNING, Ms. M. J.; Ph.D. – Dept. of Zool., Univ. of Hull, HULL HU6 7RX, England
a Maturation of immunocompetence correlated with development of the lymphoid tissues: removal of the thymus and exposure to antigenic stimulation (allografts, protein antigens, etc.) at different larval stages; in vitro studies of the immunological capabilities of lymphocytes. Xenopus laevis (Anura)

MANSUETO (BONACCORSO), Ms. C.; Dr.nat.sci., Prof. – Zool. Inst., Univ. of Palermo, Via Archirafi 18, 90123 PALERMO, Italy
a Investigations on embryonic development by use of radio-isotopes. Ciona intestinalis (Ascidiacea)
b RNA synthesis in egg development. Ciona intestinalis, Ascidia malaca, Clavellina lepadiformis (Ascidiacea)
c Egg stimulation by ionophore. Same species as a

MANUKHIN, B. N.; Dr.biol. – Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St.26, MOSCOW 117334, U.S.S.R.
a Uptake of neurotransmitters by early embryos. (Echinoidea)

MARAUD, R.; D.Méd., D.Sc., Prof. – Lab. d'Histol. et d'Embryol., Univ. de Bordeaux II, 146 rue Leo-Saignat, 33076 BORDEAUX Cedex, France
a Differentiation of the genital tract. Gallus gallus (Aves)
b Physiology of the embryonic thyroid. Same species as a

MARCEL, R.; D.Sc. – Serv. de Biol. Anim., Univ. des Sci. et Techn. de Lille, B.P.36, 59650 VILLENEUVE D'ASCQ, France
a Biochemistry of trophic factor and specific inhibitor of cephalic and caudal regeneration. Eisenia foetida (Oligochaeta)
b Ultrastructure of nerve cells during regeneration. Same species as a
c Immunofluorescence of factors governing morphogenesis. Same species as a

MARCHAL-SEGAULT, Ms. D. – Lab. de Zool., Univ. de Paris XI (Paris-Sud), Centre d'Orsay, Bât.442, 91405 ORSAY, France
a Effects of organochlorine and organophosphorus insecticides on development and metamorphosis. Bufo bufo, Xenopus laevis (Anura)

MARCHAL, L.; Biol.CNRS – Lab. de Biol. Méd., Univ. de Nancy I, B.P.1080, 54019 NANCY Cedex, France
a Histogenèse des cellules B du pancréas. Rattus norvegicus (Rodentia)

MARCHAND, C. R.; Dr. 3e Cycle – Lab. de Zool. et Embryol., Univ. de Besançon, Place Maréchal Leclerc, 25030 BESANÇON Cedex, France
a Histophysiologie des testicules et de l'hypophyse des hybrides intergénériques stériles comparée à celle des canards fertiles. Cairina moschata, Anas platyrhynchos (Aves) (avec L. GOMOT)

MARILLEY, Ms. M. – Lab. d'Histol. et Morphogen. Anim., Dépt. de Biol., Centre Univ. de Marseille-Luminy, 70 rte Léon Lachamp, 13288 MARSEILLE Cedex 2, France
a DNA synthesis in regenerating tissue: 1. control; 2. release in previously quiescent cells; 3. variations in DNA polymerase activity during regeneration. Owenia fusiformis (Polychaeta)

MARIN (LEWIN), Ms. L.; D.Sc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49 bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France

a Morphogenèse du poumon: 1. déterminisme de la maturation des structures spécifiques de l'épithelium (ultrastructure); 2. évolution du métabolisme du tissu pulmonaire (biosynthèse des lipides, activité enzymatique). Gallus gallus (Aves), Rattus spec. (Rodentia) (avec F. DAMERON)

MARINELLI, Ms. M.; Dr. – Ist. di Anat. Comp., Univ. di Perugia, Via A. Pascoli, 06100 PERUGIA, Italy

a Ultrastructure of the cocoon. Dugesia lugubris (Turbellaria)

b Action of antiandrogens on the ultrastructure of male genital organs. Cavia porcellus (Rodentia)

c Action of magnetic field on regeneration. Same species as a

MARINI, Ms. M.; Dr.Biol. – Ist. di Anat. Comp., Univ. di Modena, Via Berengario 14, 41100 MODENA, Italy

a Growth and differentiation of the subcommissural organ. Gambusia spec., Jordanella spec. (Teleostei)

b Differentiation of the dorsal cells in the spinal cord. Crenilabrus spec., Hippocampus spec. (Teleostei)

c Neurosecretion during development. Same species as a

MARKENS, I. S.; Dr. – Orthodont. Dept., Dent. Sch., State Univ. of Utrecht, Sorbonnelaan 16, "de Uithof", UTRECHT, Netherlands

a Experiments on persistence of cranial sutures till old age; possible causes: bone movements or sutural tissue properties (transplantation of bone into suture). Rattus norvegicus (Rodentia) (with H. A. J. OUDHOF)

MARKOVA, Ms. L. N. – Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St.26, MOSCOW 117334, U.S.S.R.

a The products of enzymic deamination of serotonin and catecholamines as potential regulators of cleavage divisions. Strongylocentrotus nudus, S. intermedius (Echinoidea) (with G. A. BUZNIKOV)

MARRARO (CARNAZZA), Ms. M. L. – Ist. di Anat. Umana Norm., Univ. di Catania, Via Biblioteca 4, 95124 CATANIA, Italy

a Structural changes of allantoic membrane epithelium submitted to the action of different agents. Gallus domesticus (Aves)

b Pineal gland homoplastic graft in chorioallantoic membrane. Same species as a

MARSHAK, Ms. T. L. – Lab. of Developm. Cytogenet., Inst. of Developm. Biol., Acad. of Sci. of the USSR, Vavilov St.26, MOSCOW 117334, U.S.S.R.

MARSTON, J. H.; Ph.D., MRCVS – Dept. of Anat., Med. Sch., Univ. of Birmingham, Edgbaston, BIRMINGHAM B15 2TJ, England

a Peri-implantation development and physiology including embryo transfer. Macaca mulatta (Primates)

b Control of ovulation. Macaca mulatta, Homo sapiens (Primates)

MARTELLY, Ms. I.; Dr. 3e Cycle – Lab. de Biol. Anim., Univ. Paris XII (Val de Marne), av. du Gén. de Gaulle, 94000 CRÉTEIL, France

a Quantitative and qualitative study of RNA and protein synthesis during regeneration; mechanisms of their activation. Planariidae (Turbellaria)

MARTHY, H.-J.; Ph.D. – Lab. Arago, Univ. de Paris VI, 66650 BANYULS-sur-Mer, France

a Determination, regulation, localization, and stability of primordial pattern. Loligo vulgaris (Cephalopoda)

MARTIN (FORGET), Ms. C.; D.Sc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France

a Origin of erythropoietic stem cells studied in interspecific chimeras. Gallus gallus, Coturnix c. japonica (Aves)

MARTIN, G. – Lab. de Physiol. et Génét. des Crustacés, Univ. de Poitiers, 40 av. du Recteur Pineau, 86022 POITIERS Cedex, France

a Contrôle neurohumoral de la différenciation sexuelle et de la mue. (Isopoda, Crustacea)

b Nauplius eye of embryos. (Oniscoidea, Isopoda)

MARTIN, R. P.; Dipl.d'Étud.Approf. – Lab. d'Embryol., U.E.R. de Sci., Univ. de Caen, 14032 CAEN, France

a Renouvellement et différenciation des cellules de l'épithélium intestinal. Ambystoma mexicanum (Urodela)

MARTÍNEK, J.; M.D. – Inst. of Embryol., Charles Univ., Albertov 4, 128 00 PRAHA 2, Czechoslovakia

a Cytochemistry and electron microscopy of ova. Rattus spec. (Rodentia), Homo sapiens (Primates)

b Fine structure of the blastocyst; the role of nucleoli in early differentiation of blastodermic vesicle. Same species as a

MARTINOVITCH, P. N.; Ph.D. – Lab. of Molec. Biol. and Endocrinol., Inst. of Nucl. Sci. "Boris Kidrič", P.O.Box 522, 11001 BEOGRAD, Yugoslavia

MARTY, R. J. L.; Dr.Méd., Dr.Sci., Prof. – Lab. de Neurophysiol., Univ. des Sci. et Tech. du Languedoc, Place E. Bataillon, 34060 MONTPELLIER Cedex, France

a Neurophysiologie. 1. Maturation périnatale du système auditif (stimulation électrique de la cochlée; stimulation tonale). 2. Maturation postnatale du système vestibulaire. 3. Involution expérimentale et plasticité du système auditif. Felis catus (Carnivora), Oryctolagus cuniculus (Lagomorpha)

b Neuroanatomie. 1. Maturation périnatale du cortex cérébral: synaptogenèse. 2. Prolifération et migrations postnatales de la névroglie. 3. Dégénérescence postnatale du tractus optique et gliose réactionnelle. Rattus norvegicus, Felis catus (Mammalia)

MASTROLIA, Ms. L.; Dr.biol.sci. – Ist. di Zool. "Federico Raffaele", Viale dell'Università 32, 00161 ROMA (7), Italy
MATĚJKA, M.; Dr.Med., C.Sc. – Inst. of Histol and Embryol., Charles Univ., Karlovarská 48, 30167 PLZEŇ, Czechoslovakia
a Morphogenesis of the genital organs from an evolutionary standpoint. (Amniota, incl. Homo sapiens)
MATO, J. M.; Drs. – Zool. Lab., Unit of Cell Biol. and Morphogen., State Univ., Kaiserstr. 63, LEIDEN, Netherlands
a Role of cyclic nucleotides during chemotaxis. Dictyostelium spec. (Acrasiales)
MATUSZEWSKI, B.; Ph.D. – Dept. of Cytol., Zool. Inst., Warsaw Univ., Krak. Przedmieście 26/28, 00-927/1 WARSZAWA, Poland
a Oogenesis. (Cecidomyiidae, Diptera), (Scarabeidae, Coleoptera)
b Extrachromosomal DNA and its role in oogenesis. (Staphylinidae & Gyrinidae: Coleoptera)
MAUCHAMP, B. L.; Ing. – Lab. de Zool., École Norm. Supérieure, 46 rue d'Ulm, 75230 PARIS Cedex 05, France
– INA Paris-Grignon, Centre Grignon, 78 THIVERVAL-Grignon, France
a Hormonal control of wing imaginal disc development. Pieris brassicae (Lepidoptera)
b Biochemistry of diapause. Same species as a
c Ultrastructural aspects of scale development. Same species as a
MAUGER (GIRARD), Ms. A.; D.Sc. – Lab. de Zool. et Biol. Anim., Univ. Sci. et Méd. de Grenoble, B.P.53, Centre de Tri, 38041 GRENOBLE, France
a Role of spinal cord in feather morphogenesis; cutaneous nerve supply; neurotaxis. Gallus domesticus (Aves)
b Morphogenetic role of early somitic mesoderm in limb bud differentiation. Same species as a
c Origin of limb muscles. Gallus domesticus, Coturnix c. japonica (Aves)
d Scanning electron microscopy of the epidermis during feather morphogenesis. Same species as a
e Microcinematography of skin cells cultured in vitro. Same species as a
MAYER, R. J.; Ph.D. – Dept. of Biochem., Univ. Hosp. Med. School, Clifton Blvd., NOTTINGHAM NG7 2UH England
a Turnover of lipogenic enzymes and casein during hormonally stimulated mammary gland differentiation and in adipose tissue in vitro. Oryctolagus cuniculus (Lagomorpha), Ovis aries (Artiodactyla)
b Studies on mitochondrial enzyme turnover (cytochrome oxidase and monoamine oxidase) in regenerating liver and in neonatal deveopment. Rattus spec. (Rodentia)
MAYS, U.; Dr.rer.nat. – Zool. Inst. der Univ., Badestr. 9, 44 MÜNSTER/Westf., B.R.D. (Germany)
a RNA transport in the egg follicle, especially in meroistic ovaries (radioisotopes, electron microscopy). Pyrrhocoris apterus (Heteroptera)
MAZABRAUD, A.; Dr. 3e cycle – Centre de Génét. Moléc. du CNRS., 91190 GIF-sur-YVETTE, France
a Mécanismes biochimiques de l'oogenèse. Xenopus laevis (Anura)
MAZHUGA, P. M.; Dr.Biol., Prof. – Dept. of Cytol. and Histogen., Inst. of Zool., Acad. of Sci. of the Ukraine, Vladimirskaya St.51/53, Apt.89, 252003 KIEV, U.S.S.R.
a Principles of genesis, and cytological peculiarities of some derivatives of mesenchyme: the peculiarities of endochondral and perichondral osteogenesis. Domestic and laboratory animals (Mammalia), Homo sapiens (Primates)
b Onto- and phylogenesis of the blood-vascular trunks of the extremities. Same species as a
c Development of the blood-vascular bed of the joint capsule. Same species as a
d Histogenesis of blood vessels; comparative hemopoiesis. Same species as a
e The structural and functional differentiation of cells in chondrogenesis and osteogenesis. (Mammalia)
f Utilization of cells and matrix substances during enchondrial osteogenesis (autoradiography, histochemistry, electron microscopy). Oryctolagus cuniculus (Lagomorpha), Rattus spec. (Rodentia)
g Osteoblast sources in periosteal and endochondral osteogenesis (autoradiography, cytophotometry, electron microscopy)
h Blood capillaries and reticulo-endothelial system of the bone marrow (cytology, electron microscopy, tissue culture, autoradiography, cytophotometry)
i Structural mechanisms of endochondral process (histology, histochemistry, autoradiography)
j Transformation of blood capillaries into sino-capillar system of the bone marrow (cytology, histology)
MAZZUCCO, K.; Dr.phil. – Inst. für Krebsforsch., Univ. Wien, Borschkegasse 8a, Postfach 72, 1090 WIEN, Austria
a Influence of collagen on cell proliferation and differentiation. (Rodentia)
MEER, J. M. van der; Drs. – Dept. of Zool., Cathol. Univ., Toernooiveld, NIJMEGEN, Netherlands
a Normal development. Callosobruchus maculatus (Coleoptera)
b Pattern formation: role of special ooplasmic regions in the spatial and temporal differentiation of blastoderm cells; underlying molecular mechanisms. Same species as a
MEINIEL (BOUTRON), Ms. A.; D.Sc. – Lab. de Biol. Anim., Univ. de Clermont, B.P.45, 63170 AUBIÈRE, France
a Embryonic development of the pineal gland (electron microscopy, Falck and Hillarp method, autoradiography). (Reptilia; Aves; Mammalia)
b Parapineal organ (same methods as a). Lampetra planeri (Cyclostomata)
MEINIEL, R.; D.Sc. – Lab. de Biol. Anim., Univ. de Clermont, B.P.45, 63170 AUBIÈRE, France
a Effect of anticholinesterasic properties of organophosphate insecticides on morphogenesis (light

and electron microscopy, histochemistry). Gallus domesticus, Coturnix c. japonica (Aves)
b Embryotoxic effect of parathion on biogenic amines (catecholamines) and glycogen (histochemistry, electron microscopy) Gallus domesticus (Aves)
c Biochemistry of cholinesterases during induction and prevention of axial teratogenesis. (Aves)

MEISTER, Ms. G.; Dr. – Zool. Inst. der Westf. Wilhelms Univ., Hüfferstr. 1, 4400 MÜNSTER, B.R.D. (Germany)
a Ultrastructure of embryonic blood cells (vacuolized round cells). Loligo vulgaris (Cephalopoda)
b Scanning electron microscopy on the radula of late embryo and newly hatched larvae. Loligo vulgaris, Sepia officinalis, Eledone cirrosa (Cephalopoda)

MELEHOVA, Ms. O. P.; Cand.sci. – Chair of Embryol., Biol. Fac., State Univ. of Moscow, Lenin Hills, MOSCOW 117234, U.S.S.R.
a Processes involving free radicals in normal and pathological development. Rana temporaria, R. esculenta (Anura) and other Vertebrata

MELLER, K.; Dr.med., Prof. – Inst. für Anat.I, Arb.gr. für Exp. Cytol., Ruhr-Univ., Universitätsstr. 150, MA 5/46, Postfach 102148, 463 BOCHUM, B.R.D. (Germany)
a Development of retina and central nervous system, especially cerebral cortex and cerebellum (electron microscopy, autoradiography, tissue culture). Gallus domesticus (Aves), Mus musculus (Rodentia)
b Protein synthesis of differentiating nerve cells (autoradiography). Gallus domesticus (Aves)
c Cell aggregation, cell differentiation, and synaptogenesis in the central nervous system (tissue culture, transmission and scanning electron microscopy, freeze-etching, autoradiography). Same species as a

MENKES, B.; Dr.med., Prof. – Lab. of Embryol., Ctr. of Hyg. and Publ. Health, Bv. Mihai Viteazul 24, 2900 TIMIŞOARA, Rumania
also: Dept. of Med. Biol., Med. Biol., Med. School, P-ţa 23 August 1, 1900 TIMIŞOARA, Rumania
a The role of normal and experimentally induced necrosis in teratogenesis
b Cinematographical studies on growth and differentiation processes of the embryonic axial organs. Gallus domesticus (Aves)
c The influence of exogenous factors on embryonic development; prenatal pathology. Same species as b
d Organogenesis in the embryo. Homo sapiens (Primates)
e Development of cerebral vesicles. Same species as b

MERCIER (PAROT), Ms. L.; Dr.Sci. – Lab. d'Embryol., U.E.R. Bioméd., 45 rue des Sts.Pères, 75270 PARIS Cedex 06, France
a Tératogenèse par sulfamides hypoglycémiants, antimetabolites. Rattus spec. (Rodentia) (avec H. TUCHMANN-DUPLESSIS)
b Influence de la cortisone sur la gestation et le développement foetal. Même espèce comme a
c Influence des alcaloides du Rauwolfia, de la réserpine et de la déserpidine sur le développement. Même espèce comme a (avec H. TUCHMANN-DUPLESSIS)
d Influence des neuroleptiques sur les malformations congénitales. Rattus spec., Mus spec. (Rodentia), Oryctolagus cuniculus (Lagomorpha)
e Diabète expérimental et grossesse. (Mammalia)
f Influence des antimitotiques, des anticonvulsants et de la prostaglandine F2α sur la gestation. Même espèce comme d (avec H. TUCHMANN-DUPLESSIS)
g Mécanismes d'action de substances embryotoxiques (transfert d'oeufs). (Rodentia) (avec C. ROUSSEL)

MERKER, H.-J.; Dr.med., Prof. – Anat. Inst. der Freien Univ. Berlin, Kön.-Luise-Str. 15, 1 BERLIN 33, B.R.D. (Germany)

MERKLE, U.; Dr.med., Prof. – Anat. Inst. der Univ. Erlangen-Nürnberg, Krankenhausstr. 91, 8520 ERLANGEN, B.R.D. (Germany)
a Spermatogenese und Sertoli-Zellen. Rattus spec. (Rodentia)

MESHCHERYAKOV, V. N.; Cand.sci. – Chair of Embryol., Biol. Fac., State Univ. of Moscow, Lenin Hills, MOSCOW 117234, U.S.S.R.
a Spatial organization of spiral cleavage: symmetry; nature of cell contacts; spindle-cortex interactions. Lymnaea stagnalis, Physa spp., Aplexa hypnorum, Radix peregra (Gastropoda)
b Shell morphogenesis: correlation with cleavage asymmetry. Lymnaea stagnalis, Physa acuta (Gastropoda)
c Long-term culture of embryos with vitelline membranes removed. Lymnaea stagnalis (Gastropoda)
d Glycerinated models of eggs. Same species as c

MESSAGE, M. A.; Ph.D. – Anat. School, Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3DY, England
a Development of muscle, primarily with histochemical techniques. Xenopus laevis (Anura), Mus musculus, Rattus norvegicus (Rodentia)
b Development of tissue culture techniques for study of myogenesis.
c Computer simulation of organogenesis with particular reference to limbs

MESTRE, J.-C.; Prof. – Lab. de Biol. Cell., Univ. Paris-Sud, 22 rue J. B. Clément, 92290 CHÂTENAY-MALABRY, France
a Morphology and physiology of embryoids originating from callus. (Angiospermae)
b Physiological and morphological relations of the embryo with its surroundings during development in situ. (Angiospermae)

MESTRES, P.; Dr.med. – Lehrst. für Anat. I, Ruhr-Univ., Universitätsstr. 150, Postfach 102148, 4630 BOCHUM 1, B.R.D. (Germany)

a Development of the pituitary. Rattus norvegicus (Rodentia)
b Influences of hormones and drugs on neurogenesis and sexual differentiation of the hypothalamus (transmission and scanning electron microscopy, histochemistry). Same species as a
c Cell arrangement and cell contacts in early stages of development; cytochemistry of the cell surface. Gallus gallus (Aves)

METAFORA, S.; Dr. – Lab. of Molec. Embryol., Consiglio Naz. delle Ricerche, Via Toiano 2, 80072 ARCO FELICE (Napoli), Italy

MEUSY, J. J.; Dr. – Lab. Sex. et Reprod. des Invertébr., Univ. Paris VI (P. et M. Curie), Bât.A, 7e étage, 4 place Jussieu, 75230 PARIS Cedex 05, France
a Electrophoresis and immunochemistry of the female specific protein: vitellogenin. Orchestia gammarellus (Amphipoda, Crustacea)
b Androgenic hormone (Crustacea)

MGLINETZ, V. A.; Dr. – Lab. of Exp. Genet., Inst. of Med. Genet., Kashirskoye Chaussee 6a, 115478 MOSCOW, U.S.S.R.
a Determination of imaginal disc cells in normal and mutant strains. Drosophila melanogaster (Diptera)
b Interaction of homoeotic and non-homoeotic genes during development. Same species as a
c Temperature sensitivity of homoeotic and non-homoeotic mutants. Same species as a
d Pleiotropy of homoeotic genes. Same species as a

MICHAEL, Ms. P.; B.Sc., M. (phil) – Hubrecht Lab. (Intern. Embryol. Inst.), Uppsalalaan 8, 3584 CT UTRECHT, Netherlands
a Origin and migration of primordial germ cells studied in xenoplastic recombinates of urodelan and anuran blastulae. Triturus alpestris, Ambystoma mexicanum (Urodela), Xenopus laevis, Bombina orientalis, Discoglossus pictus, Rana lessonae, R. pipiens (Anura)

MIDDLETON, C. A.; B.Sc. – Dept. of Zool. and Comp. Anat., Univ. Coll. London, Gower St., LONDON WC1E 6BT, England
a Locomotion and behaviour of epithelial cells in tissue culture. Gallus gallus (Aves), Mus musculus (Rodentia)

MIKHAILOV, A. T.; Cand.biol.sci. – Inst. of Devl. Biol., USSR Acad. of Sci., Vavilov St.26, MOSCOW 117334, U.S.S.R.
a Developmental and biochemical studies on the inductive capacities of the retina during embryogenesis. Rana temporaria (Anura), Gallus domesticus (Aves)
b Biochemistry and immunochemistry of the retinal protein structure during optic cup formation. Gallus domesticus (Aves)
c Immunochemistry of certain lens proteins in adults and embryos. Scylliorhinus canicula (Elasmobranchii), Rana temporaria (Anura), Gallus domesticus (Aves)

MIKULSKA, Ms. I.; D.Sc., Prof. – Dept. of Zool., Inst. of Biol., Univ. of N. Copernicus, Gagarina 9, 87-100 TORUŃ, Poland
a Teratogenesis caused by abnormal temperature. (Araneae, Arachnida)
b Gametogenesis. Tegenaria atrica (Araneae, Arachnida)

MILAIRE, J.; M.D., Prof. – Lab. d'Anat. et d'Embryol. Hum., Univ. Libre de Bruxelles, 97 rue aux Laines, 1000 BRUXELLES, Belgium

MILANO-GRASSI, Ms. E.; Dr.biol.sci. – Ist. di Zool. "Federico Raffaele", Viale dell'Università 32, 00161 ROMA (7), Italy

MILKOVIĆ (ŽULJ), Ms. K.; Ph.D., Prof. – Inst. of Biol., Fac. of Med., Univ. of Zagreb, Šalata 3, P.O.Box 166, 41001 ZAGREB, Yugoslavia
a Development and function of the pituitary-adrenocortical system in foetus and neonate (biochemistry, histology, histochemistry). Rattus norvegicus (Rodentia) (with R. KLEPAC, M. PERUZOVIĆ and J. PAUNOVIĆ)
b Effects of perinatal influences, especially adrenocorticoids, on emotionality, active and passive avoidance conditioning. Same species as a (with M. PERUZOVIĆ and J. PAUNOVIĆ)

MINGANTI, A.; Dr., Prof. – Ist. di Anat. Comp., Univ. di Genova, Via Balbi 5, 16126 GENOVA, Italy
a Effects of cholinesterase inhibitors on development (Ascidiacea; Echinoidea)
b Acetylcholine receptors in eggs and early embryos. Same species as a

MIRCOV, Ms. O.; M.D. – Dept. of Med. Biol., Med. School, P-ţa 23 August 1, 1900 TIMIŞOARA, Rumania
a Development of facial primordia. Gallus domesticus (Aves)
b Teratogenesis

MISCHKE, D.; Dipl.Biol. – Inst. für Allgem. Biol., Univ. Düsseldorf, Universitätsstr. 1, 4000 DÜSSELDORF, B.R.D. (Germany)
a Isolation and characterization of chromosome-sized Y DNA from eye-antenna-discs. Drosophila hydei (Diptera)
b Processing of ribosomal RNA from testes. Same species as a

MITASHOV, V. I.; Cand.biol.sci. – Koltzov's Lab. of Cell Differ., Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.
a Cytological changes in pigment epithelium cells in the course of their transformation into neural retina during eye regeneration: RNA and DNA synthesis, cell cycles, the synthesis of general and specific protein products. Triturus cristatus, T. vulgaris, Pleurodeles waltlii (Urodela)
b Regeneration of the neural retina with special reference to S-100 protein. Triturus cristatus (Urodela) (with L. I. KOROCHKIN and S. M. SVIRIDOV, Novosibirsk)
c Development of regional differences in neural retina and pigment epithelium (synthesis of DNA, RNA). Acipenser stellatus, A. güldenstädti (Chondrostei) (with O. G. STROEVA and E. A. BABURINA)

MITOLO, V.; M.D. – Inst. of Human Anat., Fac. of Med., Univ. of Bari, Policlinico, 70124 BARI, Italy
a Changes of spinal ganglia and spinal cord after increase or decrease of the peripheral field of innervation. Gallus domesticus (Aves)
b Growth models, a general study
c Computer simulation of growth and morphogenesis of the limb buds. Same species as a
d Growth of spinal cord. Same species as a
MITSKEVICH, M. S.; Dr.Biol., Prof. – Inst. of Developm. Biol., Acad. of Sci. of the U.S.S.R., Vavilov St. 26, 117334 MOSCOW, U.S.S.R.
a Hypothalamic control of thyroid function in fetus and neonate. Oryctolagus cuniculus (Lagomorpha), Cavia porcellus, Rattus spec. (Rodentia)
b Influence of encephalectomy on adrenocortical and thyroid function in the fetus. Same species as a
MOCQUARD, J.-P.; Dr. – Lab. de Physiol. et Génét. des Crustacés, Univ. de Poitiers, 40 av. du Recteur Pineau, 86022 POITIERS Cedex, France
a Etude statistique de la croissance et de la mue; action des facteurs externes sur les systèmes neuro-sécréteurs. Porcellio dilatatus, Ligia oceanica (Isopoda, Crustacea)
b Recherches sur l'expression mathématique des lois de la croissance relative, plus particulièrement des organes soumis aux hormones sexuelles. Same species as a
MOCZAR, Ms. M.; Ph.D. – Lab. de Biochim. du Tissu Conjonct., Univ. de Paris XII, 6 rue du Gén.Sarrail, 94000 CRÉTEIL, France
a Glycoproteins of aorta muscle cell membranes and their interaction with extracellular macromolecules (collagen, proteoglycan, elastin); biosynthesis of these macromolecules in aorta; age changes in macromolecular interactions (organ and cell culture). Oryctolagus cuniculus (Lagomorpha), Sus scrofa domesticus (Artiodactyla)
b Regeneration of elastic tissue. Canis familiaris (Carnivora)
MODAK, S. P.; Dr.Sci.Biol. – Inst. Suisse de Rech. Exp. sur le Cancer, Unité de Biol. du Dévél., ch.Boveresses, 1066 EPALINGES, Switzerland
a Isolation and characterization of the nuclear and cytoplasmic non-mitochondrial DNA, synthesized during erythropoiesis. Anas platyrhynchos (Aves)
b Qualitative and quantitative changes in the genome during lens fiber cell differentiation
c Factors controlling de- and redifferentiation of cultured iris epithelial cells, studied by cell injection combined with immunofluorescence for gamma crystallin. Notophthalmus viridescens (Urodela) (with T. YAMADA)
d Quantitation of total DNA, RNA and proteins, and characterization of cytoplasmic polyadenylated mRNAs in stage 1-13 blastoderm. Gallus gallus (Aves) (with G. McMASTER)
e Size of chromatin subunits in epithelial and fiber cell population of developing lens; characterization of various chromatin proteins. Same species as d (with D. W. APPLEBY)
MODLIŃSKI, J. A.; Ph.D. – Dept. of Embryol., Zool. Inst., Univ. of Warsaw, Krak. Przedmieście 26/28, 00-927 WARSZAWA, Poland
a Microsurgery of early embryos. Mus musculus (Rodentia)
b Fertilization and early development. Same species as a
MOFFAT, D. B.; M.D., Prof. – Dept. of Anat., Univ. Coll., P.O.Box 78, CARDIFF CF1 1XL, Wales, U.K.
a Postnatal development of kidney. Rattus spec. (Rodentia), Homo sapiens (Primates)
MOHALLAL, M. E. – Lab. de Biol. de la Reprod., Univ. Paris VI (P. et M. Curie), Bât.A, 7e étage, 7 quai Saint-Bernard, 75230 PARIS Cedex 05, France
a Enzyme histochemistry and ultrastructure of the placenta during development and effect of fetectomy and prostaglandins on placenta development. Rattus norvegicus (Rodentia)
MOHR, H.; Dr.rer.nat., Prof. – Biol. Inst.II, Lehrst. für Bot., Univ., Schänzlestr. 1, 78 FREIBURG/Br., B.R.D. (Germany)
a Mechanism of phytochrome action at the level of phytochrome-mediated enzyme induction and enzyme repression, and its relation to development. Sinapis alba (Cruciferae)
MOLEN, Ms. L. G. van der; Dr. – Zool. Lab., Unit of Cell Biol. and Morphogen., State Univ., Kaiserstr. 63, LEIDEN, Netherlands
a Changes in populations of organelles during cellular differentiation (E. M., cytochemistry, biochemistry). Calliphora erythrocephala (Insecta)
MOLOTKOVA, Ms. L. F. – Inst. of Human Morphol., Acad. of Med. Sci. of the USSR, Tsurupa St. 3, MOSCOW 117469, U.S.S.R.
MONESI, V.; M.D., Prof. – Inst. di Istol. ed Embriol. Gen., Univ. di Roma, Via A. Borelli 50, 00161 ROMA, Italy
a RNA and protein synthesis in differentiating spermatozoa. Mus musculus (Rodentia)
b Somatic-germ cell interaction in spermatogenesis: biochemistry and function of Sertoli cells; germ cell-Sertoli cell culture. Same species as a
MONK, Ms. M.; Ph.D. – MRC Mammal. Devl. Unit, Univ. Coll. London, Wolfson House, 4 Stephenson Way, LONDON NW1 2HE, England
a Simultaneous measurement of the activity of enzymes coded for by genes on the X-chromosome and on autosomes to determine whether or not both X-chromosomes are active during preimplantation development. Mus musculus (Rodentia)
b Factors involved in the regulation of implantation, studied in a culture system. Same species as a
MONNIER, M.; Dr. – Lab. d'Histophysiol. Végét., 12 rue Cuvier, 75005 PARIS, France
a Development of the immature embryo cultivated in vitro. Capsella bursa pastoris (Cruciferae)
b Development of the mature embryo cultivated in vitro. Phaseolus vulgaris (Papilionaceae)
MONROY, A.; M.D., Prof. – Stazione Zoologica, Villa Comunale, 80121 NAPOLI, Italy

a Physiology of fertilization. Ciona intestinalis, Ascidia malaca, Phallusia mamillata (Ascidiacea)
b Control of cell division in the embryo; role of cell interactions. Paracentrotus lividus, Sphaerechinus granularis (Echinoidea)

MOOLENAAR, W. H.; Drs. – Hubrecht Lab. (Intern. Embryol. Inst.), Uppsalalaan 8, 3584 CT UTRECHT, Netherlands
also: Physiol. Lab., State Univ., Wassenaarseweg 62, LEIDEN, Netherlands
a Regulation of the cell cycle and its significance for development and differentiation: the role of changes in membrane properties and structure, ion and cyclic nucleotide metabolism. Neuroblastoma cells, Mus musculus (Rodentia) (with J. G. BLUEMINK, S. W. de LAAT, P. T. van der SAAG and S. A. NELEMANS)

MOOR, R. M.; Ph.D. – A.R.C. Unit of Reprod. Physiol. and Biochem., Univ. of Cambridge, 307 Huntingdon Rd., CAMBRIDGE, CB3 0JQ, England

MOORE, D.; Ph.D. – Dept. of Bot., Univ., MANCHESTER M13 9PL, England
a Metabolic and enzymological studies of sporophore development, especially nitrogen metabolism and identification of enzyme regulatory events which can be related to specific aspects of morphogenesis. Coprinus cinereus (Fungi)
b Mutants in genes determining enzymes known to be involved in sporophore morphogenesis (polymorphic variants and electrophoretic mapping). Same species as a

MOORES, G. R.; Ph.D. – Dept. of Cell Biol., Univ. of Glasgow, GLASGOW G11 6NU, Scotland, U.K.
a Surface properties and behaviour of embryonic cells. Gallus gallus (Aves)

MORATA, G.; Ph.D. – Sect. Devl. Genct., Inst. of Genet. CSIC, Ctr. of Molec. Biol., Univ. Autónoma de Madrid, Canto Blanco, MADRID 34, Spain
a Heredity of determinative decisions in clones of imaginal disc cells. Drosophila melanogaster (Diptera)

MOREAU, M.; Lic.Sci. – Stat. Biologique, place Georges-Teissier, 29211 ROSCOFF, France
a Biophysical and biochemical membrane changes during meiosis reinitiation; analysis of maturation promoting factor (microinjection). Xenopus laevis (Anura), Marthasterias glacialis (Asteroidea)
b Cell contacts during early embryogenesis. Sphaerechinus granularis (Echinoidea), Patella vulgata (Gastropoda), Dentalium dentale (Scaphopoda)

MOREAU, Ms. N.; Dr. 3e Cycle – Lab. de Génét. du Dévl., Univ. P. et M. Curie, Ctr. de Rech. d'Ivry, 67 rue M. Günsbourg, 94200 IVRY-sur-SEINE, France
a Biosynthesis of endogenous proteins during oogenesis. Pleurodeles poireti (Urodela)

MORGAN (WRIGHT), Ms. M.; Ph.D. – Dept. of Environm. Sci., Plymouth Polytechnic, Drake's Circus, PLYMOUTH PL4 8AA, England
a Morphology and normal table from fertilization to hatching. Salmo gairdneri (Teleostei)
b Effect of temperature on early development. Same species as a

MORGAN, P. R.; B.Sc., B.D.S. – Dept. of Dent. Pathol., London Hosp. Med. Coll., Turner St., LONDON E1 2AD, England
a Ultrastructure of the developing palate and early cleft palate. Rattus spec. (Rodentia)

MORIN, Ms. J. – Lab. d'Histol.-Embryol., Fac. de Méd., Bd.Winston Churchill, B.P.38, 63001 CLERMONT-FERRAND Cedex, France
a Light and electron microscopic studies of chromosomes after different treatments. (Mammalia)

MORRIS, B.; Ph.D. – Dept. of Zool., Univ. of Nottingham, NOTTINGHAM, England
a Antibody absorption by neonates. Rattus norvegicus (Rodentia)
b Electron microscopy and physiology of postnatal gastric and intestinal development. Same species as a

MORRIS, I. G.; Ph.D. – Dept. of Zool., Univ. Coll. of N. Wales, BANGOR, Caerns., Wales, U.K.
a Transmission of serum proteins across foetal membranes and neonate gut. Mus musculus, Rattus norvegicus (Rodentia)

MORRISS, Ms. G. M.; Ph.D. – Dept. of Human Anat., Univ. of Oxford, South Parks Rd., OXFORD OX1 3QJ, England
a Mechanisms of normal and abnormal development in early postimplantation embryos in vivo and in vitro. Rattus spec. (Rodentia)
b Normal and abnormal development of neural tube, face and ear. Same species as a

MOSNA, Ms. G.; Dr. – Ist. di Genet., Univ. di Milano, Via Celoria 10, 20133 MILANO, Italy
a Attempts to obtain cells growing in a defined medium. Drosophila melanogaster (Diptera)
b Cloning of established cells. Same species as a

MOUTON, Ms. C.; D.E.A. – Lab. d'Embryol., U.E.R. de Sci., Univ. de Caen, 14032 CAEN, France
a Cytological aspects of posterior regeneration, autoradiography of DNA synthesis. Allolobophora icterica (Oligochaeta)

MOUZE, M. – Serv. de Biol. Anim., Univ. des Sci. et Techn. de Lille, B.P.36, 59650 VILLENEUVE D'ASCQ, France
a Étude descriptive de la croissance de l'oeil; étude expérimentale des facteurs morphogénétiques et hormonaux qui contrôlent cette croissance. Aeshna cyanea, Anax imperator (Odonata)

MOYSE, J.; Ph.D. – Dept. of Zool., Univ. Coll. of Swansea, Singleton Park, SWANSEA, Glamorgan, Wales, U.K.

MRÁZKOVÁ (ŠEVČÍKOVÁ), Ms. O.; MUDr. – Dept. of Anat., Charles Univ., U nemocnice 3, 12800 PRAHA 2, Czechoslovakia
a Prenatal development of limb vascularisation. Homo sapiens (Primates)

MUISWINKEL, W. B. van; Ph.D. – Dept. of Exp. Anim. Morphol. and Cell Biol., Agric. Univ., "Zodiac", Marijkeweg, WAGENINGEN, Netherlands
a Time and place (organ) of origin of cell types involved in the immune response (plaque-test of Jerne, scale-transplantation, immuno-electrophoresis, histology, immunofluorescence, etc.).

Cyprinus carpio, Barbus conchonius (Teleostei)

MULAREK, Ms. O.; M.D. – Inst. of Neurol. and Sensory Organs, Med. Acad., Przybyszewskiego St. 49, 60-355 POZNAŃ, Poland

a Histochemistry of glia cells in the developing nervous system. Rattus norvegicus (Rodentia)

MÜLLER, Ms. F.; Dr.rer.nat. – Anat. Inst. der Univ., Pestalozzistr. 20, 4056 BASEL, Switzerland

a Effect of LSD on development of the embryonic nervous system. Mesocricetus auratus (Rodentia)

b Development of the dural arteries. Homo sapiens (Primates)

MULLER, J. P.; M.Sc. – Lab. de Génét. du Dévl., Univ. P. et M. Curie, Ctr. de Rech. d'Ivry, 67 rue M. Günsbourg, 94200 IVRY-sur-SEINE, France

a Nuclear ribonucleoprotein particles in oocytes. Pleurodeles poireti (Urodela)

MÜLLER, M.; D.Sc. – Inst. of Biol., Fac. of Med., Univ. of Zagreb, Šalata 3, P.O.Box 166, 41001 ZAGREB, Yugoslavia

a Regulation of compensatory growth. Rattus norvegicus (Rodentia)

b Experimental teratology. Same species as a (with C. HERMAN)

c Genetic and environmental factors in development and foeto-placental complex. Same species as a (with C. HERMAN)

MÜLLER, W. A.; Dr.rer.nat., Prof. – Zool. Inst. der Univ., Im Neuenheimer Feld 230, 6900 HEIDELBERG, B.R.D. (Germany)

a Role of morphogens and neuroid functions in morphogenesis (metamorphosis, regeneration). Hydractinia spec., Hydra spec. (Hydrozoa), Cassiopea spec. (Scyphozoa)

b Polar morphogenesis and RNA metabolism in early development. Hydractinia spec. (Hydrozoa)

c Membrane ATPases and ion exchange in development (embryogenesis, metamorphosis). Same species as b

d Factors releasing settlement and metamorphosis. (lower Invertebrata, especially Coelenterata)

MULNARD, J. G.; M.D., Prof. – Lab. d'Anat. et d'Embryol. Hum., Univ. Libre de Bruxelles, 97 rue aux Laines, 1000 BRUXELLES, Belgium

MUÑOZ CUEVAS, A. – Lab. Souterrain du C.N.R.S., 09410 MOULIS, France

a Différenciation, régression et ultrastructure des yeux. Ischyropsalis spec. (Phalangida, Arachnida)

MUNTZ (REID), Ms. L.; Ph.D. – Dept. of Zool., Univ. of Reading, Whiteknights Park, READING RG6 2AJ, England

a Comparative studies on the structural development of nerves and muscles. Xenopus laevis, Eleutherodactylus martinicensis, Rana temporaria (Anura), Triturus spec. (Urodela)

b Electron microscopy of muscle development and degeneration. Same species as a

MURASHOVA, Ms. A. I. – Lab. of Embryol., Inst. of Human Morphol., Acad. of Med. Sci. of the USSR, Tsurupa St. 3, MOSCOW 117469, U.S.S.R.

MURBACH, Ms. V. E.; Lic.Phil.II – Zahnärztl. Inst., Abt. Orale Strukturbiol., Univ. Zürich, Plattenstrasse 11, 8028 ZÜRICH, Switzerland

a Development of oral tissues, especially tooth papilla, pulp and mucous membrane (microscopy, stereology, 3-dimensional reconstructions). Homo sapiens (Primates)

MUSY, J. P.; M.D. – Inst. d'Histol. et d'Embryol. Gén., Univ. de Fribourg, Pérolles, 1700 FRIBOURG, Switzerland

a Cytophotometry on embryonic fibroblasts: DNA content as a function of oxygen concentration. Gallus domesticus (Aves)

MUTOLO, V.; M.D., Prof. – Ist. di Anat. Comp., Univ. di Palermo, Via Archirafi 20, 90123 PALERMO, Italy

a Cell interactions in embryos. Paracentrotus lividus (Echinoidea)

b Ribosomal and mitochondrial RNA synthesis in embryogenesis. Same species as a

c RNA synthesis in regenerating liver, especially mitochondrial RNA. Rattus spec. (Rodentia)

MYLVAGANAM, R.; M.Sc. – Immunol. Unit, Dept. of Bacteriol., Univ. of Aberdeen, Foresterhill, ABERDEEN AB9 2ZD, Scotland, U.K.

a Immunological aspects of insulin therapy in diabetic pregnancies. Cavia porcellus (Rodentia), Homo sapiens (Primates)

MYSTKOWSKA-BACZKOWSKA, Ms. E. T.; Dr.biol. – Lab. of Exper. Embryol., Inst. of Obstet. and Gynecol., Medical Academy, Karowa 2, 00-315 WARSZAWA, Poland

a Embryonic development. Clethrionomys glareolus (Rodentia)

b Interspecific chimaeric embryos. Mus musculus, Clethrionomys glareolus (Rodentia)

NAAKTGEBOREN, C.; Dr. – Dept. of Obstet. and Gynecol., Wilhelmina Gasthuis, 1e Helmerstr. 104, AMSTERDAM, Netherlands

a Electrophysiology of the uterus in the perinatal period, studied in vivo. Canis familiaris (Carnivora), Ovis aries, Sus scrofa (Artiodactyla), Oryctolagus cuniculus (Lagomorpha)

c Psychogenous influences on uterine physiology and fetal development. Same species as a

NADAL, Cl.; Dr. Méd., D.Sc. – Unité de Physiol. Cell., U22, INSERM, Inst. du Radium, Bâtiment 110, 91405 ORSAY, France

a Substances regulating the number of hepatic cells during life and the regeneration after partial hepatectomy. Rattus norvegicus (Rodentia)

b Hepatic polyploidy, its development during life and its control system. Same species as a

c Appearance of a hepatocyte mitosis inhibiting system at the slowing down of the growth, characteristic of the transition towards the adult state. Same species as á

NAGEL, J.; D.Sc. – Lab. de Physiol. Anim., Univ. de Reims, B.P.347, 51062 REIMS Cedex, France

a Hemopoietic function of the foetal liver; factors controlling its progressive disappearance. Rattus norvegicus (Rodentia) (with R. L. JACQUOT, M. D. NAGEL and C. BILLAT)

NAGEL, Ms. M. D.; Dr. 3e cycle – Lab. de Physiol. Anim., Univ. de Reims, B.P.347, 51062 REIMS Cedex, France

a Hemopoietic function of the foetal liver; factors controlling its progressive disappearance. Rattus norvegicus (Rodentia) (with J. NAGEL, C. BILLAT and R. L. JACQUOT)

NAGL, W.; Dr., Prof. – Div. of Cell Biol., Dept. of Biol., Univ., P.O.Box 3049, 6750 KAISERSLAUTERN, B.R.D. (Germany)

a Ultrastructural differentiation, and synthesis of DNA and RNA in the development of the oocyte and the ovarian nutritive tissue. Gerris najas (Heteroptera)

b Autolysis of the embryonal suspensor (ultrastructure, cytochemistry). Phaseolus coccineus (Papilionaceae), Tropaeolum majus (Tropaeolaceae)

NAMUR, Ms. P.; D.E.A. – Lab. d'Embryol., Dépt. de Biol.-Ecol., U.E.R. de Sci., Univ. de Caen, 14032 CAEN, France

a Etude expérimentale de l'action d'antimétabolite au cours du développement précoce du germe. Ambystoma mexicanum (Urodela)

NANDAKUMARAN, M.; M.Sc. – Lab. de Biol. de la Reprod., Univ. Paris VI (P. et M. Curie), Bât.A, 7e étage, 7 quai Saint-Bernard, 75230 PARIS Cedex 05, France

a Placental transfer of betamimetics (in vitro perfusion). Homo sapiens (Primates)

NARDI, Ms. I.; Dr.Biol. – Inst. of Histol. and Embryol., Univ. of Pisa, Via A.Volta 4, 56100 PISA, Italy

a Mitotic and lampbrush chromosomes; DNA analysis and in situ RNA/DNA hybridization (Urodela)

NARDI VILARDAGA, J. – Dept. of Anat., Univ. of Barcelona, C/.Casanova 143, BARCELONA 11, Spain

a Influence of extrinsic factors on joint development. (Aves)

b Interaction between membranous and cartilaginous developing bones in vivo and in vitro. (Aves)

NAVARATNAM, V.; Ph.D. – Anat. School, Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3DY, England

a Ontogenesis of cholinesterase and mono-amine activity in cardiac innervation. (Mammalia). Homo sapiens (Primates)

b Differentiation of sympathetic ganglia. Rattus spec. (Rodentia)

NAYLOR, E.; Ph.D., Prof. – Dept. of Marine Biol., Univ. of Liverpool, PORT ERIN, Isle of Man, U.K.

a Developmental aspects of behaviour. Carcinus maenas, Callinectes sapidus, Macropipus spec. (Decapoda, Crustacea)

NEDVÍDEK, J.; RNDr. – Dept. of Exp. Zool., Charles Univ., Viničná 7, 12844 PRAHA 2, Czechoslovakia

a Nucleic acids and subcellular particles in oogenesis and early development. (Amphibia) (with V. HABROVÁ)

b Transplantation of nuclei in relation to nucleic acids and proteins. (Amphibia) (with F. SLÁDEČEk and A. ROMANOVSKÝ)

NEEDHAM, A. E.; D.Sc. – Dept. of Zool., Univ. of Oxford, South Parks Rd., OXFORD OX1 3PS, England

a Review of regeneration and general metabolism

NELEMANS, S. A.; Drs. – Hubrecht Lab. (Intern. Embryol. Inst.), Uppsalalaan 8, 3584 CT UTRECHT, Netherlands

a Regulation of the cell cycle and its significance for development and differentiation: the role of changes in membrane properties and structure, ion and cyclic nucleotide metabolism. Neuroblastoma cells, Mus musculus (Rodentia) (with J. G. BLUEMINK, S. W. de LAAT, P. T. van der SAAG and W. H. MOOLENAAR)

NELLEN, W.; Dipl.Biol. – Inst. für Allgem. Biol. der Univ., Universitätsstr. 1, 4000 DÜSSELDORF, B.R.D. (Germany)

a Processing of genetic information; isolation of mRNA and in vitro translation systems. Drosophila hydei (Diptera)

b Specific changes in ribosomal subunits depending on the method of isolation. Same species as a

NELSON, L.; Fil.kand. – Dept. of Zoophysiol., Univ. of Umeå, 901 87 UMEÅ, Sweden

a Mitochondrial differentiation during ontogenesis. Xenopus laevis (Anura)

NETZEL, H. E. M.; Dr. – Inst. für Biol.III, Univ., Auf der Morgenstelle 28, 7400 TÜBINGEN, B.R.D. (Germany)

a Shell formation: secretion and morphogenesis. Arcella dentata, Centropyxis discoides, Difflugia oviformis (Rhizopoda)

b Cytomorphogenesis: division and regeneration of thecae; cyst formation. Gonyaulax polyedra, Peridinium cinctum (Dinophyceae)

NEUBERT, J.; Dr.rer.nat. – Inst. für Flugmedizin der DFVLR, Kölnerstr. 70, 53 BONN-Bad Godesberg, B.R.D. (Germany)

a Effect of simulated weightlessness on ultrastructure of the embryonic vestibular organ. (Anura) (with W. BRIEGLEB)

b Teratogenic and genetic anomalies induced by simulated weightlessness (fast running clinostat). Tribolium confusum (Coleoptera) (with W. BRIEGLEB)

NEUMANN, D.; Dr.rer.nat., Prof. – Zool. Inst. der Univ., Weyertal 119, 500 KÖLN 41, B.R.D. (Germany)

a Timing of pupation and emergency by physiological clock mechanisms. Clunio marinus (Chironomidae, Diptera)

b Growth and reproduction rate under the influence of photoperiod and daily fluctuations of temperature. Chaoborus vitripennis (Diptera), Daphnia longispina (Cladocera, Crustacea)

NEVILLE, P. A. J.; Dr.d'État, Prof. – Lab. de Morphogen. Végét., Univ. d'Aix-Marseille III, Fac. St.-Jérôme, rue Henri Poincaré, 13397 MARSEILLE Cedex 4, France

a Leaf morphogenesis: 1. regeneration; 2. growth. Gleditsia triacanthos (Leguminosae)

b Apical dominance and growth correlations between buds. Same species as a
c Vascular histogenesis: 1. working of normal cambium; 2. neoformation of cambium. Same species as a
d Determination of flowering and flower morphogenesis (microsurgical method) Pisum sativum (Leguminosae)
e Seed dormancy and germination. Olea europaea (Oleaceae), Quercus ilex (Fagaceae)
f Root morphogenesis: 1. regeneration; 2. tropism control. Quercus ilex (Fagaceae)

NEW, D. A. T.; Ph.D. – Marshall Lab., Dept. of Physiol., Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3EG, England
a Development of methods for growing embryos in culture. Rattus spec., Mus musculus (Rodentia)
b Growth and differentiation of the placenta. (Rodentia)
c Teratogenic effects of hyperthermia, excess glucose and steroid hormones

NEWTH, D. R.; Ph.D., Prof. – Dept. of Zool., Univ. of Glasgow, GLASGOW G12 8QC, Scotland, U.K.
a Properties of primordial germ cells. Xenopus laevis (Anura)
b Transplantation immunobiology. Same species as a

NEYFAKH, A. A.; Dr.biol., Prof. – Lab. of Biochem. Embryol., Inst. of Devl. Biol., Acad. of Sci. of the USSR., Vavilov St. 26, MOSCOW 117334, U.S.S.R.

NGOC-HO, Ms. N.; Dr. 3e cycle – Dept. of Zool., Brit. Museum (Nat.Hist.), Cromwell Rd., LONDON SW7 5BD, England
a Larval development. (Thalassinidea, Decapoda, Crustacea)

NICOLAS, P. B. G.; Dr. – Dépt. de Biol. Gén. et Appl., Univ. de Lyon 1, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France
a Genetics of chloroplast development mutants. Euglena gracilis (Euglenophyceae)

NICOLET, G.; D.Sc. – Lab. d'Embryol. Expér., Inst. d'Histol., Univ. de Genève, 20 rue de l'Ecole de Médecine, 1211 GENÈVE 4, Switzerland

NICOTRA, Ms. A.; Dr.biol.sci. – Ist. di Zool. "Federico Raffaele", Viale dell'Università 32, 00161 ROMA (7), Italy

NIE, C. J. van; D.V.M. – Lab. of Anat. and Embryol., Free Univ., v.d. Boechorststr. 7, AMSTERDAM-Z., Netherlands
a Ontogenetic malformations of the heart. Sus scrofa, Bos taurus (Artiodactyla)
b Pathological development of heart and vessels. Same species as a
c Pathological development of bone. Sus scrofa (Artiodactyla)
d Teratology. (Mammalia), Homo sapiens (Primates)
e Development of the subneural apparatus. Rattus spec. (Rodentia), Oryctolagus cuniculus (Lagomorpha)
f Regeneration of terminal nerves and motor end plates. Same species as e

NIELSEN, Cl.; Dr.phil. – Marine Biol. Lab., Univ. of Copenhagen, Strandpromenaden, 3000 HELSINGØR, Denmark
a Developmental biology. Crisia spec., Alcyonidium spec., Hippodiplosia spec., Bugula spec., Fenestrulina spec. (Ectoprocta)

NIEMIERKO, Ms. A. – Lab. of Exper. Embryol., Inst. of Obstet. and Gynecol., Med. Acad., Karowa 2, 00-315 WARSZAWA, Poland
a Early development of eggs; experimental induction of chromosomal aberrations. Mus musculus (Rodentia)
b Experimental induction of triploidy (in vivo and in vitro) and postimplantation development of triploid embryos. Same species as a

NIEUWKOOP, P. D.; Phil.Dr., Prof. – Hubrecht Lab., (Intern. Embryol. Inst.), Uppsalalaan 8, 3584 CT UTRECHT, Netherlands
a Comparative study on the origin of primordial germ cells and mesoderm formation, and phylogenetic implications. (lower Vertebrata incl. Reptilia) (with L. A. SUTASURYA and co-workers, Bandung, Indonesia)
b Analysis of dorso-ventral and cranio-caudal polarity in mesoderm induction. Ambystoma mexicanum (Urodela) (with E. C. BOTERENBROOD and K. HARA)
c Origin of dorso-ventral polarity of the egg. Discoglossus pictus, Xenopus laevis (Anura) (with K. HARA and G. A. UBBELS)

NIGON, V.; D.Sc., Prof. – Dépt. de Biol. Gén. et Appl., Univ. de Lyon 1, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France
a Biochemistry and genetics of chloroplast differentiation. Euglena gracilis (Euglenophyceae)
b Erythrocyte differentiation. Gallus domesticus (Aves)

NIIKAWA, N.; M.D. – Lab. of Embryol. and Cytogenet., Univ. Clinic of Gynecol. and Obstet., Geneva Univ., 20 rue Alcide-Jentzer, 1211 GENÈVE 4, Switzerland

NIJWEIDE, P. J.; Dr. – Lab. for Cell Biol. and Histol., State Univ., c/o Acad. Hosp., Rijnsburgerweg 10, LEIDEN, Netherlands
a Calcium and strontium metabolism of embryonic calvarium periost. Gallus domesticus (Aves), Rattus spec. (Rodentia)
b Metabolism and hormonal sensitivity of cultured bone cells derived from embryonic calvaria. Gallus domesticus (Aves)
c Effects of gamma-irradiation on bone and cartilage. Mus musculus (Rodentia)

NIKITIN, N. S.; Cand.biol. – Vet. Inst., Nijegorodgky St., LENINGRAD, U.S.S.R.

NIKITINA, Ms. L. A.; Cand.biol.sci. – Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.

NORDLING, S.; M.D. – Lab. of Exp. Embryol., III. Dept. of Pathol., Univ. of Helsinki, Haartmaninkatu 3, 00290 HELSINKI 29, Finland

a Mechanism of kidney tubulogenesis. Mus musculus (Rodentia) (with J. J. WARTIOVAARA, L. O. SAXÉN, E. LEHTONEN, P. EKBLOM and J. SALONEN)

NORRGREN, G.; Fil.kand. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden

a Factors stimulating axon outgrowth in vitro

NÖTHIGER, R.; Dr.phil., Prof. – Zool.-vergl. Anat. Inst., Univ. Zürich, Künstlergasse 16, 8006 ZÜRICH, Switzerland

a Sex determining genes studied at the cellular level. Drosophila melanogaster (Diptera)

b Genetic analysis of determination by means of induced mitotic recombination. Same species as a

NOULIN, G. – Lab. de Physiol. et Génét. des Crustacés, Univ. de Poitiers, 40 av. du Recteur Pineau, 86022 POITIERS Cedex, France

a Contrôles endocrines de la formation et de l'évolution des régénérats d'appendices locomoteurs. (Isopoda, Crustacea)

b Etude expérimentale de la production d'appendices surnuméraires. (Isopoda, Crustacea)

NOWAKÓWNA-SEMBRAT, Ms. J.; Ph.D. – Inst. of Zool., Univ. of Wrocław, ul.Sienkiewicza 21, 50-335 WROCŁAW, Poland

a Cytology and cytochemistry of partial metamorphosis. Triturus spec. (Urodela)

b Cytology and cytochemistry of gametogenesis. Embletonia pallida (Opisthobranchia, Gastropoda)

NÜBLER-JUNG, Ms. K.; Dr.rer.nat. – Biol. Inst. I (Zool.) der Univ., Katharinenstr. 20, 78 FREIBURG, B.R.D. (Germany)

a Function of the intersegmental region in pattern reconstitution (transplantation). Dysdercus intermedius (Heteroptera)

b Pattern formation in imaginal discs (combination experiments). Drosophila hydei (Diptera)

NUSS, Ms. E.; Dr.rer.nat. – Zool. Inst. (I) der Univ., Röntgenring 10, 87 WÜRZBURG, B.R.D. (Germany)

NÜSSLEIN-VOLHARD, Ms. C.; Dr.rer.nat. – Biol. Inst. I. (Zool.) der Univ., Albertstr. 21a, 78 FREIBURG, B.R.D. (Germany)

a Pattern formation in early embryogenesis: maternal effect mutants (bicaudal etc.). Drosophila melanogaster (Diptera)

NYIRI, S.; M.D. – Dept. of Ophthalmol., Univ. Med. Sch., Korányi S.16, SZEGED, Hungary

a Developmental histochemistry and electron microscopy of the autonomic ground plexus. Rattus rattus (Rodentia) (with B. CSILLIK, E. KNYIHÁR, M. GAJÓ and G. KÁLMÁN, Dept. of Anat.)

NYITRAY, Ms. M. – Res. Inst. for Pharm. Chem., P.O.Box 82, 1325 BUDAPEST, Hungary

a Effect of clofibrate and phenobarbital Na administered to pregnant and lactating mothers on offspring: mortality, hepatomegaly; study of critical time and liver histology. Rattus norvegicus (Rodentia)

ODEIGAH, P. C. G. – Inst. of Anim. Genet., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JN, Scotland, U.K.

O'DELL, D. S.; Ph.D. – Dept. of Zool. and Comp. Anat., Univ. Coll. London, Gower St., LONDON WC1E 6BT, England

a Biochemistry of the transitions between the amoeboid and the flagellate stages. Naegleria gruberi (Rhizopoda)

b Cell surface membranes: changes after fertilization and during early development. Paracentrotus lividus (Echinoidea); various spp. (Ascidiacea)

c Developmental biology. Various spp. (Mesozoa)

OGORZALEK, A.; Ph.D. – Inst. of Zool., Univ. of Wrocław, ul.Sienkiewicza 21, 50-335 WROCŁAW, Poland

a Oogenesis (autoradiography). Drosophila melanogaster (Diptera)

b Cytochemistry of oogenesis. Nepa cinerea, Ranatra linearis, Naucoris cimicoides (Heteroptera)

OJEDA SAHAGUN, J. L.; Dr. Med., Prof. – Serv. de Embriol. Exper., Dept. de Anat., Fac. de Med., SANTANDER, Spain

a Biochemical and ultrastructural effects of barbituric compounds on the embryo. Gallus domesticus (Aves)

b Cell death in the developing central nervous system (stage 7-20 H.H.; electron and optic microscopy). Same species as a

OKKER-REITSMA, Ms. G. H.; Ph.D. – Lab. for Cell Biol. and Histol., State Univ., Rijnsburgerweg 10, LEIDEN, Netherlands

a Steroid production of placenta and embryo of different ages. Mus musculus, Cavia porcellus (Rodentia)

OKSCHE, A.; Dr.med., Prof. – Zentrum für Anat. und Cytobiol., Justus Liebig Univ., Aulweg 123, 6300 GIESSEN, B.R.D. (Germany)

a Development of neuroendocrine cell complexes (units) in the hypothalamus (neurohistology, electron microscopy, cytometry). (Aves, Mammalia)

b Development of photo-neuro-endocrine systems: retino-hypothalamic connections; deep hypothalamic photoreceptor; pineal photoreceptor organs. (Vertebrata)

OLIVEREAU, Ms. M. M. A.; D.Sc. – Lab. de Physiol., Inst. Océanographique, 195 rue Saint-Jacques, 75005 PARIS, France

a Cytology and histochemistry of endocrine glands in relation with development, and after various experimental procedures. (Salmonidae, Teleostei)

b Histophysiology of endocrine glands. (Anguillidae)

c Effects of salinity on larvae; histophysiology of endocrine glands. Pleurodeles waltl (Urodela)

OLIVO, O. M.; Prof. – Ist. di Anat. Umana Norm., Univ. di Bologna, Via Irnerio 48, BOLOGNA, Italy

OPAS, Ms. J.; M.Sc. – Dept. of Embryol., Zool. Inst., Univ. of Warsaw, Krak.Przedmieście 26/28, 00-927 WARSZAWA, Poland

a Cytokinesis in blastomeres from two-cell stage: 1. microcinematography; 2. ultrastructure after cytochalasin-B-treatment; 3. colcemid blocking; 4. contractility of glycerinated models. Mus musculus (Rodentia)
b Changes of cortical properties of oocytes and fertilized eggs as revealed by cytochalasin B-induced blebbing. Same species as a

ORLOVA, Ms. I. I.; Cand.biol.sci. – Lab. of Embryol., Inst. of Human Morphol., Acad. of Med. Sci. of the USSR, Tsurupa St. 3, MOSCOW 117469, U.S.S.R.

ORTOLANI, Ms. G.; D.Sc., Prof. – Zool. Inst., Univ. of Palermo, Via Archirafi 18, 90123 PALERMO, Italy

ORTS LLORCA, F.; Prof. – Dept. of Anat., Fac. of Med., Ciudad Univ., MADRID, Spain

OSIPOV, V. V.; Dr. – Inst. of Med. Genet., Kashirskoye Chaussee 6a, MOSCOW 115478, U.S.S.R.
a Genetic regulation of development of brain, eye, and limbs. Mus musculus (Rodentia)

OSTROUMOVA, Ms. T. W. – Chair of Embryol., Biol. Fac., State Univ. of Moscow, Lenin Hills, MOSCOW 117234, U.S.S.R.
a Interaction between morphogenetic and metabolic processes in early embryonic development. (Hydrozoa; Echinoidea)

OUDHOF, H. A. J.; Dr. – Orthodont. Dept., Dent. Sch., State Univ. of Utrecht, Sorbonnelaan 16, "De Uithof", UTRECHT, Netherlands
a Experiments on persistence of cranial sutures till old age; possible causes: bone movements or sutural tissue properties (transplantation of bone into suture). Rattus norvegicus (Rodentia) (with I. S. MARKENS)

OYEN, H. van; Drs. – Netherl. Inst. for Brain Res., IJdijk 28, AMSTERDAM, Netherlands
a Development and correctibility of behaviour. Rattus norvegicus (Rodentia)

OŻDŻEŃSKI, W.; Ph.D. – Dept. of Embryol., Zool. Inst., Univ. of Warsaw, Krak.Przedmieście 26/28, 00-927 WARSZAWA, Poland
a Differentiation of the somatic and germinal tissues of the gonad. Mus musculus (Rodentia)
b Normal development. Clethrionomys glareolus (Rodentia)

OZOH, P.; B.Sc. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden
a Effects of pollutants on development. (Teleostei)

PALA, Ms. M.; Dr. – Ist. di Zool., Univ. di Sassari, Via Murroni 25, 07100 SASSARI, Italy

PALEČEK, J.; RNDr. – Dept. of Exp. Zool., Charles Univ., Viničná 7, 12844 PRAHA 2, Czechoslovakia

PALÉN, K.; Fil.Kand. – Zoophysiol. Inst., Univ. of Lund, Helgonavägen 3, 223 62 LUND, Sweden

PALLADINI, G.; Prof. – Ist. di Biol. Gen., Univ. di Roma, Policlinico Umberto I, 00100 ROMA, Italy
a Effects of heavy metals and food dyes on head regeneration. Dugesia gonocephala (Turbellaria)
b Effects of heavy metals, food dyes and pollutants on development of nervous system. Xenopus laevis (Anura)

PANELIUS, S.; Ph.D. – Dept. of Zool., Univ. of Helsinki, P. Rautatiekatu 13, 00100 HELSINKI 10, Finland

PANIGEL, M.; Dr.Méd., D.Sc., Prof. – Lab. de Biol. de la Reprod., Univ. Paris VI (P. et M. Curie), Bât.A, 7ème étage, 7 quai Saint-Bernard, 75230 PARIS Cedex 05, France
a Physiology of fetal-maternal exchange. Macaca mulatta, M. fascicularis, Papio cynocephalus (Primates)
b Ultrastructure of the placental membrane. (Primates)
c Ultrastructure of trophoblast during pathological pregnancy. Homo sapiens (Primates)
d Fetal visualization in utero (X-ray scanning, echotomography) (Primates)

PANNESE, E.; M.D., Prof. – 2nd Inst. of Human Anat., Univ. of Milano, Via Mangiagalli 14, 20133 MILANO, Italy
a Morphology and histochemistry at the electron microscope level of the degenerative events in embryonic spinal ganglia. Gallus gallus (Aves)
b Membrane specializations in embryonic spinal ganglia, particularly cell junctions (freeze-fracture and lanthanum techniques). Same species as a

PANOVA, Ms. I. G. – Koltzov's Lab. of Cell Differ., Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.
a Dependence of DNA synthesis and cell proliferation in pigment epithelium of the retina upon general growth factors of the eye. Rattus norvegicus (Rodentia) (with O. G. STROEVA)

PANTELOURIS, E. M.; Ph.D. – Biol. Dept., School of Biol. Sci., Univ. of Strathclyde, George St., GLASGOW G1 1XW, Scotland, U.K.
a Immunobiology of the athymic mutant nude. Mus musculus (Rodentia)
b Development of lymphoid tissues and immune responses. Same species as a
c Biological aspects of ageing

PAPAIOANNOU, Ms. V. E.; Ph.D. – Zool. Dept., Univ. of Oxford, South Parks Rd., OXFORD OX1 3PS, England
a Analysis of mutants in chimeras. Mus musculus (Rodentia)
b Injection of teratocarcinoma cells into embryos. Same species as a

PAPILLON, Ms. M. – U.E.R. de Biol.-Zool., Univ. Paris VI, 105 Bd. Raspail, 75006 PARIS, France
a Influence of breeding temperature upon protein patterns in haemolymph, fat body, and oocytes (electrophoresis). Schistocerca gregaria (Orthoptera)
b Effect of parasitisation by Halameba locustae on protein patterns and oocyte growth. Same species as a
c Effects of breeding temperature upon ecdysone and juvenile hormone levels. Same species as a

PARISI, E. – Lab. of Molec. Embryol., Consiglio Naz. delle Ricerche, Via Toiano 2, ARCO FELICE, C.P.3042, 80100 NAPOLI, Italy
a Enzymes controlling DNA synthesis in developing embryos. Paracentrotus lividus (Echinoidea)

PARSONS, R.; Ph.D. – Musc. Dystrophy Res. Labs., Newcastle Gen. Hosp., NEWCASTLE upon Tyne NE4 6BE, England
a Aggregation of single cells from normal and dystrophic newborn and embryonic animals with gyratory shaking; biochemistry of enzyme system differentiation of aggregates. Mus musculus (Rodentia)
b Effect of light on muscle and nerve cells in tissue culture. Same species as a
c Abnormal relationship between Schwann cells and axons in hereditary muscular dystrophy. Same species as a
d Possible malfunction of muscle regeneration in Duchenne dystrophy (tissue culture). Homo sapiens (Primates)

PASCAUD, M.; Dr., Prof. – Lab. de Physiol. Metab. et Nutr., Univ. Paris VI, 9 quai Saint-Bernard, 75230 PARIS Cedex 05, France
a Linoleic acid metabolism and renewal in the growing animal. Rattus spec. (Rodentia)
b Transport of linoleic acid from the mother to the embryo. Same species as a

PASCUAL-MORENILLA, Ms. M. T.; M.D., Assoc. Prof. – Inst. F. Olóriz, Fac. of Med., Univ. of Granada, GRANADA, Spain
a Experimental embryology of the cerebellum. Gallus gallus (Aves)

PASKIN, N.; B.Sc. – Dept. of Biochem., Univ. Hosp. Med. School, Clifton Bd., NOTTINGHAM NG7 2UH, England
a Protein degradation, using fatty acid synthetase, during differentiation of mammary gland in tissue culture as a model system. Oryctolagus cuniculus (Lagomorpha)
b Role of protein turnover in developmental processes, differentiation, etc., using simple computer models

PASQUINI, P.; Ph.D., Prof. – Ist. di Zool. "Federico Raffaele", Viale dell'Università 32, 00161 ROMA (7), Italy

PASSAPONTI, A.; M.D., Prof. – Ist. di Anat. Umana Norm., Univ. di Catania, Via Biblioteca 4, 95124 CATANIA, Italy
a The development of the inguinal canal. Homo sapiens (Primates)
b Mezzi facilitanti l'attecchimento di innesti omo- ed eteroplastici in embrioni. Gallus domesticus (Aves), Rattus rattus (Rodentia)
c Capacità formativa degli epiteli di rivestimento nell'embrione. Gallus domesticus (Aves)

PASTEELS, J. J.; M.D., Prof.hon. (Emer.) – Avenue Delleur 35, 1170 BRUXELLES, Belgium

PATRICOLO, Ms. E.; Dr.nat.sci., Prof. – Zool. Inst., Univ. of Palermo, Via Archirafi 18, 90123 PALERMO, Italy
a Collagen in embryos. Ciona intestinalis (Ascidiacea)
b Cellular aggregation. Ciona intestinalis, Ascidia malaca (Ascidiacea)
c Metamorphosis. (Ascidiacea)

PAUL, J.; Ph.D. – Beatson Inst. for Canc. Res., Royal Beatson Mem. Hosp., 132 Hill St., GLASGOW G3 6UD, Scotland, U.K.

PAUNOVIĆ, Ms. J.; B.Sc. – Inst. of Biol., Fac. of Med., Univ. of Zagreb, Šalata 3, P.O.Box. 166, 41001 ZAGREB, Yugoslavia
a Effects of perinatal influences on stress response, emotionality, and learning. Rattus norvegicus (Rodentia) (with K. MILKOVIĆ and M. PERUZOVIĆ)
b Development and fuction of the pituitary-adrenocortical system in foetus and neonate (morphology and biochemistry). Same species as a (with K. MILKOVIĆ and R. KLEPAC)

PAUTOU (MÉRIC), Ms. M. P.; Dr.spéc. – Lab. de Zool. et Biol. Anim., Univ. Sci. et Méd. de Grenoble, B.P.53, Centre de Tri, 38041 GRENOBLE, France
a Development of dorso-ventral polarity in the hind limb. Gallus gallus, Anas platyrhynchos (Aves)
b Kinetics of programmed cell death in the interdigital spaces. Same species as a
c Relation between apical ectodermal ridge and proximo-distal growth in the limb bud. Gallus gallus (Aves)

PAVÉ, A.-G.; Ing., Dr.spéc. – Lab. de Biomét., Sect. de Biol. Génér. et Appl., Univ. de Lyon I, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France

PAVIĆ, Ms. D.; B.C. – Lab. of Molec. Biol. and Endocrinol., Inst. of Nucl. Sci. "Boris Kidrič", P.O.Box 522, 11001 BEOGRAD, Yugoslavia

PAWLOWITZKI, I. H.; Dr.med., Prof. – Inst. für Humangenet., Westf. Wilhelms Univ., Vesaliusweg 12-14, 44 MÜNSTER, B.R.D. (Germany)
a Prenatal diagnosis of genetic defects. Homo sapiens (Primates)
b Malformation syndromes; deliniation and genetic counseling. Same species as a

PAYEN, Ms. G. G.; Dr. – Lab. Sex. et Reprod. des Invertébr., Univ. Paris VI (P. et M. Curie), Bât.A, 7e étage, 4 place Jussieu, 75230 PARIS Cedex 05, France
a Description and control of sex differentiation. Pontastacus leptodactylus, Carcinus maenas, Callinectes sapidus, Rhithropanopeus harrisii, Menippe mercenaria, Ocypoda quadrata (Decapoda, Crustacea)
b Control of spermatogenesis. Pontastacus leptodactylus (Decapoda, Crustacea)

PAYS-DE SCHUTTER, Ms. A. G.; Lic.Sc.Chim. – Dept. of Molec. Biol., Free Univ. of Brussels, 67 rue des Chevaux, 1640 RHODE-ST-GENÈSE, Belgium
a Effects of inhibitors and inductors on oocyte maturation. (Amphibia; Teleostei)

PEAUCELLIER, G.; Dr. 3e Cycle – Stat. Biol., place Georges-Teissier, 29211 ROSCOFF, France
a Effects of various treatments and substances on maturation, meiosis, and early development, comparing fertilized and artificially activated eggs (cytology, metabolism, isotope study). Sabellaria alveolata (Polychaeta)
b Reinitiation of meiosis by proteolytic enzymes: purification of proteases; early cytological and physiological changes. Same species as a

PEDERSEN, K. J.; Ph.D. – Inst. of Gen. Zool., Univ. of Copenhagen, 15 Universitetsparken, 2100 COPENHAGEN Ø, Denmark
a Formation of connective tissue filaments in regenerating animals. Dugesia tigrina (Turbellaria)
b Cytology and cytochemistry of starving animals. Same species as a
c Cellular basis for regeneration. Lineus ruber (Nemertea)
d Wound healing (scanning electron microscopy). Same species as a

PEEL, Miss S.; Ph.D. – Dept. of Human Morphol., Univ. of Southampton, Med. Sch., Highfield, SOUTHAMPTON SO9 5NH, England
a Cell proliferation and differentiation in placenta and female genital system. Rattus spec. (Rodentia) (with D. BULMER)
b Immunology of pregnant uterus. (Rodentia) (with D. BULMER)

PEGRUM (HALL), Ms. S. M.; B.Sc. – Dept. of Zool., Univ. Coll. London, Gower St., LONDON WC1E 6BT, England
a Ultrastructure of cellular contacts in tissue culture. Gallus gallus (Aves), Mus musculus (Rodentia)

PEHLEMANN, F.-W.; Dr., Prof. – Anat. Inst. der Univ., Olshausenstr. 40-60, 23 KIEL, B.R.D. (Germany)
a Ultrastructural morphogenesis and functional morphometry of endocrine glands (adenohypophysis, adrenal, thyroid). Rana temporaria, Xenopus laevis (Anura)
b Ultrastructure of amitosis. Rana temporaria (Anura), Homo sapiens (Primates)

PELLING, C.; Dr. – Max-Planck Inst. für Biol., Abt. Beermann, Spemannst. 34, 74 TÜBINGEN, B.R.D. (Germany)

PELLINIEMI, L. J.; D.Med. – Lab. of Electr. Micr., Univ. of Turku, Kiinanmyllynkatu 10, 20520 TURKU 52, Finland
a Development of the genital system in embryos. Sus scrofa domesticus (Artiodactyla)
b Development of embryonic prostate. Homo sapiens (Primates)

PELLONI-MUELLER, Ms. G.; Ph.D. – Inst. of Cell Biol., Swiss Fed. Inst. of Technol., Hönggerberg, 8093 ZÜRICH, Switzerland
a Localisation and accumulation of myofibrillar proteins in cultures of embryonic muscle (indirect immunofluorescence; electron microscopy). Gallus domesticus (Aves)

PERISSEL, B. – Lab. d'Histol.-Embryol. Cytogénét., Fac. de Méd., Bd. Winston Churchill, B.P.38, 63001 CLERMONT-FERRAND Cedex, France
a Morphogenesis, cytochemistry, and autoradiography of perinatal and adult myocardium in cell culture; pharmacological study. Rattus spec (Rodentia)
b Ultrastructure and cytochemistry of perinatal and adult hepatic cells in subculture. Same species as a

PERKOWSKA (MOSER), Ms. E.; Ph.D. – Zaulek 28, Zoliborz, 01 564 WARSZAWA, Poland
a Histochemistry of an intra-nuclear structure, connected with production of nucleoli-like bodies in oocytes. Geotrupes stercorarius, Aphodius fossor and other spp. (Scarabaeidae, Coleoptera)

PERRIARD, J. C.; Ph.D. – Inst. of Cell Biol., Swiss Fed. Inst. of Technol., Hönggerberg, 8093 ZÜRICH, Switzerland
a In vitro myogenesis. Gallus domesticus (Aves), Rattus spec. (Rodentia)
b Synthesis and degradation of muscle proteins. Same species as a

PERRIER-BARTA, Ms. H.; D.E.S. – Lab. de Physiol. Anim., Univ. de Reims, B.P.347, 51062 REIMS Cedex, France
a Electron microscopy of the foetal and perinatal pancreas. Rattus norvegicus (Rodentia)

PERRY, Ms. M. M.; B.Sc. – Poultry Res. Ctr., Agric. Res. Counc., King's Bldgs., West Mains Rd., EDINBURGH EH9 3JS, Scotland, U.K.
a Yolk transport mechanism in ovarian follicle. Gallus domesticus (Aves)

PERSOV, G. M.; Dr.biol. – Lab. of Exp. Ichthyol., Biol. Inst., Leningrad State Univ., Stary Peterhof, LENINGRAD 198904, U.S.S.R.
a Effect of X-irradiation on gametogenesis. (Chondrostei; Teleostei)

PERUZOVIĆ (GRADT), Ms. M.; Grad. – Inst. of Biol., Fac. of Med., Univ. of Zagreb, Šalata 3, P.O.Box 166, 41001 ZAGREB, Yugoslavia
a Development and function of the pituitary-adrenocortical system in foetus and neonate (biochemistry, histology, histochemistry). Rattus norvegicus (Rodentia) (with K. MILKOVIĆ)
b Effects of perinatal influences, especially adrenocorticoids, on emotionality, active and passive avoidance conditioning. Same species as a (with K. MILKOVIĆ and J. PAUNOVIĆ)

PERZANOWSKA, Ms. A.; M.Sc. – Dept. of Comp. Anat., Jagellonian Univ., ul.Krupnicza 50, 30-060 KRAKÓW, Poland
a Early development of contractile proteins. Salmo trutta (Teleostei)

PÉTAVY, G. – Lab. d'Entomol. et d'Ecophysiol Exp., Univ. Paris XI (Paris-Sud), Bât.446, 91405 ORSAY, France

PETERKA, M.; MUDr. – Inst. of Exp. Med., Dept. of Teratol., Czech. Acad. of Sci., Legerova 61, 120 00 PRAHA 2, Czechoslovakia
a Pre- and postnatal development of abnormal morphogenetic systems. Gallus domesticus (Aves), Mus musculus (Rodentia), Homo sapiens (Primates)

PETERS, Ms. H.; M.D. – Finsen Lab., Finsen Inst., 49 Strandboulevarden, 2100 COPENHAGEN Ø, Denmark
a The effect of hormones (testosterone, oestrogen, gonadotropin) on ovarian development in infancy. Mus musculus (Rodentia)
b The role of FSH in follicle development. Same species as a
c Development of the ovary. Homo sapiens (Primates)

PETERS, P. W. J.; M.V.D. – Dept. of Teratol. and Pharmacol. Pathol., Natl. Inst. of Public Health, P.O.Box 1, BILTHOVEN, Netherlands
a Morphogenesis of malformations caused by retinoic acid: relation to dose and stage at treatment. Rattus norvegicus (Rodentia)
b Normal morphogenesis as standard for embryotoxicity procedures. Same species as a
c Induction of neural tube defects: relation between malformation and fetal protein levels in amniotic fluid and maternal serum
d Whole body micro-autoradiography in controlling placenta passage and distribution of labelled chemicals. Same species as a

PETERS, T.; Dr.med., Prof. – Zentr. für Anat. und Cytobiol., Justus Liebig Univ., Aulweg 123, 6300 GIESSEN, B.R.D. (Germany)
a Alterations in tissue differentiation after x-ray-treatment. Triturus alpestris (Urodela)
b Intravital microscopy of normal and x-ray-treated gastrulae and neurulae. Same species as a

PETZELT, Ch. P.; Ph.D. – Inst. of Cell Res., German Canc. Res. Ctr., Im Neuenheimer Feld 280, Postfach 101949, 69 HEIDELBERG 1, B.R.D. (Germany)
a Mitosis regulation by a Ca^{++}-ATPase during early development. (Echinodermata)
b Antimitotic agents other than antitubulins (cell cultures and Echinodermata)

PETZOLDT, U.; Dr.rer.nat. – Fachber. Biol.-Zool., Univ. Marburg, Lahnberge, 3550 MARBURG, B.R.D. (Germany)
a Protein patterns in early development. (Mammalia)
b Enzyme activation during embryogenesis. (Mammalia)

PEXIEDER, T.; M.D., Assoc. Prof. – Inst. d'Histol. et d'Embryol., Univ. de Lausanne, 9 rue Bugnon, 1011 LAUSANNE, Switzerland
a Tissue dynamics of heart morphogenesis. Gallus domesticus (Aves)
b Embryophysiology of the circulation in the aortic arches and the heart. Same species as a
c Cell death in the development of the heart. Gallus domesticus (Aves), Rattus norvegicus (Rodentia), Homo sapiens (Primates)
d Teratogenic mechanisms of cardiovascular malformations. Gallus domesticus (Aves), Mus musculus, Rattus norvegicus (Rodentia)
e Endocardial development under normal and modified hemodynamic conditions (scanning electron microscopy). Same species as a

PFANNENSTIEL, H.-D.; Dr. – Zool. Inst. der Techn. Univ., Pockelstr. 10a, 3300 BRAUNSCHWEIG, B.R.D. (Germany)
a Sexual differentiation and regeneration. Ophryotrocha spec. (Polychaeta)
b Endocrine control of gametogenesis, general aspects of oogenesis (electrophoresis, autoradiography, electron microscopy). Same species as a

PFLUGFELDER, O.; Dr.rer.nat., Prof. (Emer.) – Egilolfstr. 35, 7000 STUTTGART-Birkach, B.R.D. (Germany)

PHILLIPS, I. D. J.; Ph.D. – Dept. of Biol. Sci., Washington-Singer Labs., Univ. of Exeter, EXETER EX4 6DY, England
a Role of growth hormones in development, particularly in correlative phenomena such as apical dominance. Helianthus annuus (Compositae), Phaseolus multiflorus, P. vulgaris, Pisum sativum (Papilionaceae)
b Perception of gravity and the mechanisms of geotropic and epinastic responses. Helianthus annuus (Compositae) Zebrina pendula (Commelinaceae), Phaseolus spp. (Papilionaceae)

PICARD, J. J.; M.D., Ph.D., Prof. – Lab. d'Embryol., Inst. de Zool., Univ. de Louvain, Sciences 12, 1348 LOUVAIN-LA-NEUVE, Belgium

PICAUD, J. L. – Lab. de Physiol. et Génét. des Crustacés, Univ. de Poitiers, 40 av. du Recteur Pineau, 86022 POITIERS Cedex, France
a Cycle sexuel et son contrôle. Ligia spec., Porcellio spec. (Isopoda, Crustacea)

PIEAU, Cl.; Lic.ès Sci. – Serv. d'Embryol. Expér., Inst. Pasteur, 20 rue des Moulins, 95110 SANNOIS, France

PIERIK, R. L. M.; Dr., Ir. – Dept. of Horticult., Agric. Univ., Haagsteeg 3, P.O.Box 30, WAGENINGEN, Netherlands
a Callus induction, callus culture and regulation of morphogenesis in isolated tissues. Anthurium andraeanum (Araceae), Freesia hybr. (Iridaceae), Gerbera jamesonii (Compositae), Nerine bowdenii (Amaryllidaceae), (Bromeliaceae)

PIETZSCH-ROHRSCHNEIDER, Ms. I.; Dr.rer.nat. – Anat. Inst. der Univ., Olshausenstr. 40-60, 2300 KIEL, B.R.D. (Germany)
a Ultrastructural development of the retina. Haplochromis burtoni (Cichlidae, Teleostei)
b Ultrastructural morphogenesis of supraependymal structures in the fourth ventricle. Mus musculus (Rodentia)

PIHAN, J. C.; Agr. de Sci., D.Sc. – Inst. Européen d'Écol., 57000 METZ, France
a Effects of heavy metals on the fecundity and embryonic development. Daphnia magna (Cladocera, Crustacea)

PIJNACKER, L. P.; Ph.D. – Vakgroep Genetica, State Univ. of Groningen, Biol. Ctr., Vleugel A, Kerklaan 30, HAREN 8045, Netherlands
a Oogenesis, spermatogenesis, spermiogenesis, fertilization, and parthenogenesis. Carausius morosus (Phasmida); (Acari, Arachnida)
b Quantitative cytochemistry, also in relation to differentiation. Same species as a

PILLERI, G.; Dr.med., Prof. – Brain Anat. Inst., Untere Zollgasse 71, (Waldau), 3072 OSTERMUNDIGEN-BE, Switzerland
a Entwicklung des Gehirns. Gastor canadensis (Rodentia)
b Die Protuberantia sclerae am embryonalen Auge. Homo sapiens (Primates)

c Ontogenese des Auges. Balaenoptera physalus, B. acutorostrata, Megaptera novaeangliae, Delphinus delphis, Tursiops truncatus, Delphinapterus leucas (Cetacea)
d Regressive evolution of the eye. Platanista indi, P. gangetica, Inia geoffrensis, Pontoporia blainvillei (Platanistoidea, Cetacea)
e Entwicklung der Körperform. dieselben Arten wie c
f Ontogenese des Zentralnervensystems. dieselben Arten wie c
g Ontogenesis (especially nervous system). Globicephala melaena (Odontoceti, Cetacea)
h General ontogenesis. Platanista gangetica, Pontoporia blainvillei (Cetacea)
i Ontogenese der instinktiven Bewegungen und ihr Wiederauftreten als neurologische Symptome bei Hirnkrankheiten. Homo sapiens (Primates)

PIRKIĆ, A.; M.D. – Dept. of Zool., Univ. of Zagreb, Rooseveltov trg 6, 41000 ZAGREB, Yugoslavia

PIRRONE, Ms. A. M. – Ist. di Anat. Comp., Univ. di Palermo, Via Archirafi 20, 90123 PALERMO, Italy
a RNA synthesis in early development. Paracentrotus lividus (Echinoidea)
b "Capping of RNA. Same species as a

PLATONOV, E. S.; Cand.biol.sci. – Phenogenet. Lab., Inst. of Gen. Genet., Acad. of Sci. of the USSR, Profsoyuznaya St. 7 (I), MOSCOW 117312, U.S.S.R.
a Biochemistry and immunology of crystallins during lens development. Mus musculus (Rodentia)

PLEEGING, J. H.; M.D. – Dept. of Anat. and Embryol., State Univ. of Groningen, Oostersingel 69, GRONINGEN, Netherlands
a Topographical relationships in the intestine during ontogenesis. Mus musculus ((Rodentia)
b The origin of the pronephric duct. Same species as a

POLANI, P. E.; M.D., F.R.S., Prof. – Paediat. Res. Unit, Guy's Hosp. Med. Sch., Guy's Tower, LONDON SE1 9RT, England
a Male and female meiosis. Mus spec., Acomys spec., Microtus spec. (Rodentia), Homo sapiens (Primates)
b Developmental cytogenetics, especially origin of aneuploidy. Mus musculus (Rodentia), Homo sapiens (Primates)

POLEZHAEV, L. V.; Dr.biol., Prof. – Inst. of Developm. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.

POLGE, C.; Dr. – A.R.C. Unit of Reprod. Physiol. & Biochem., Anim. Res. Station, 307 Huntingdon Rd., CAMBRIDGE CB3 0JQ, England

POLL, N. E. van de; Dr. – Netherl. Inst. for Brain Res., IJdijk 28, AMSTERDAM, Netherlands
a Development and correctibility of behaviour. Rattus norvegicus (Rodentia)

POLTEVA, Ms. D. G.; Cand.biol.sci. – Dept. of Embryol., Leningrad State Univ., Mendeleevsky St. 5, LENINGRAD 199164, U.S.S.R.
a Morphogenesis during somatic embryogenesis. Obelia geniculata, O. flexuosa, O. lovenii, Coryne lovenii, Hydra oligactis (Hydrozoa)

PORCELLI, Ms. F.; Ph.D., Prof. – Inst. of Dom. Anim. Anat., Univ. of Milano, Via Celoria 10, 20100 MILANO, Italy
a Maternal malnutrition as a cause of placental insufficiency and of abnormal fetal development, especially cerebellar pre- and post-natal histogenesis (qualitative and quantitatieve histochemistry). Rattus rattus (Rodentia)
b Normal and pathological spermatogenesis (quantitative cytochemistry). (Mammalia)

PORTCH, P. – Dept. of Anat. and Embryol., Univ. Coll. London, Gower St., LONDON WC1E 6BT, England
a Cell migration within the embryo. Gallus domesticus (Aves) (with M. R. BELLAIRS)

POSINOVEC, Ms. J.; M.D., D.Sc., Prof. – Inst. of Histol. and Embryol., Fac. of Med., Univ. of Zagreb, Šalata 3, P.O.Box 166, 41001 ZAGREB, Yugoslavia
a Anomalies of spermatogenesis due to disorders in testis development. Homo sapiens (Primates)
b Appearance and pattern formation of reticulin fibers during ontogenesis of the testis. Same species as a
c Embryonic development of the parotid gland. Same species as a

POURTOIS, M.; M.D., Prof. – Inst. de Stomatol., Univ. Libre de Bruxelles, 322 rue Haute, 1000 BRUXELLES, Belgium

POUWELS, Ms. E.; Dr. – Dept. of Anat. and Embryol., Cathol. Univ., Geert Grooteplein N.21, NIJMEGEN, Netherlands
a Development of the cerebellum (light microscopy, electron microscopy). Salmo gairdneri (Teleostei)

PRAT, Ms. M.; Ph.D. – Cell and Molec. Biol. Lab., Dept. of Human Anat., Univ. of Torino, Corso M.d'Azeglio 52, 10126 TORINO, Italy
a Cell membrane differentiation; immunochemistry of surface macromolecules. Mus musculus (Rodentia)
b Membrane-mediated growth control in BHK cells. Mesocricetus auratus (Rodentia)

PRATT, C. W. McE.; M.D. – Anat. School, Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3DY, England
a Development of skeletal tissue. Many spp. (Mammalia)

PREDA, V. G.; M.D., Prof. – Chaire de Biol.-Histol., Inst. de Méd. et Pharm., Fac. de Méd., Str. Republicii No. 48, 3400 CLUJ-Napoca, Rumania
a Influence de la température d'incubation sur l'immunomorphologie de l'embryon. Gallus spec. (Aves)
b Corrélation entre le foie en régénération et autres organes (surrénale, testicule). Rattus spec. (Rodentia)

PRELIPCEANU, Ms. O.; ing. – Lab. of Embryol., Ctr. of Hyg. and Publ. Health, Bv. Mihai Viteazul 24, 1900 TIMIŞOARA, Rumania
a Tissue culture; embryo culture. Gallus domesticus (Aves)
PRESLEY, R.; M.B., B.Chir. – Dept. of Anat., Univ. Coll., P.O.Box 78, CARDIFF CF1 1XL, Wales, U.K.
a Development of cranial structures: comparative correlation between embryology and palaeontology. (Vertebrata)
PŘESLIČKOVÁ, Ms. M. – Inst. of Pharmacol., Czech. Acad. of Sci., Albertov 4, 128 00 PRAHA 2, Czechoslovakia
a Technique of the morphological examination of implantation and placentation. Homo sapiens (Primates; Rodentia)
PRESTIGE, M. C.; Ph.D. – Physiol. Dept., Med. School, Univ. of Edinburgh, Teviot Place, EDINBURGH EH8 9AG, Scotland, U.K.
PRESTON, T. M.; B.Sc. – Dept. of Zool. and Comp. Anat., Univ. Coll. London, Gower St., LONDON WC1E 6BT, England
a Morphogenesis. Naegleria gruberi (Rhizopoda)
PRETOVÁ, Ms. A.; RNDr., CSc. – Inst. of Exper. Biol. and Ecol., Slovak. Acad. of Sci., Dúbravská č. 26, 88534 BRATISLAVA, Czechoslovakia
a Function of green pigments in young embryos. Linum usitatissimum (Linaceae)
b Embryogenesis in vitro and effect of growth substances and other factors on embryogenesis in vitro. Same species as a
PRIESTER, W. de; Ph.D. – Zool. Lab., Unit of Cell Biol. and Morphogen., State Univ., Kaiserstr. 63, LEIDEN, Netherlands
a Electron microscopy of developmental stages. Calliphora erythrocephala (Diptera)
b Morphological and functional alterations of organelles during metamorphosis. Same species as a
PRIEUR, D. M.; Dr. 3e Cycle – Lab. de Zool., Univ. de Bretagne Occidentale, 6 av. le Gorgeu, 29283 BREST Cedex, France
a Pathology of larvae reared in laboratories and hatcheries. Various spp. (Lamellibranchia)
PRITCHARD, D. J.; Ph.D. – Inst. of Anim. Genet., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JN, Scotland, U.K.
a Synthesis, ontogeny, location, and immunochemistry of lens proteins in normal animals and mutants. Gallus domesticus (Aves), Mus musculus (Rodentia) (with R. M. CLAYTON, J. C. CAMPBELL and D. E. S. TRUMAN (Edinburgh), and D. S. McDEVITT (Philadelphia)
b Ultrastructure, immunology and cell properties of lenses with normal and genetically modified cell membranes. Same species as a (with R. M. CLAYTON, and D. I. de POMERAI)
c Differentiation and cell interactions in vitro of normal and abnormal ocular epithelium. Same species as a (with R. M. CLAYTON, and D. I. de POMERAI)
d In vitro analysis of transdifferentiation of neural and pigmented retina. Gallus domesticus (Aves) (with R. M. CLAYTON and D. I. de POMERAI)
e In vitro analysis of teratogens. (with R. M. CLAYTON and D. I. de POMERAI)
PROPPER, A. Y.; Dr.Sc. – Lab. de Zool. et Embryol., Fac. des Sci. et des Techn. de Besançon, place Maréchal Leclerc, 25030 BESANÇON Cedex, France
a Mammary gland embryogenesis: 1. tissue interaction; 2. transmission and scanning electron microscopy. Oryctolagus cuniculus (Lagomorpha)
b Heterospecific tissue interactions. (Aves; Mammalia)
c Interactions between cancerous and embryonic mammary tissues. Oryctolagus cuniculus (Lagomorpha), Homo sapiens (Primates)
PROTASE (POPPER), Ms. A. – Chaire de Biol.-Histol., Inst. de Méd. et Pharm., Fac. de Méd., Str. Republicii No. 48, 3400 CLUJ-Napoca, Rumania
a Corrélation entre le foie en régénération et autres organes (surrénale, testicule). Rattus spec. (Rodentia)
b Influence de l'hormone gonadotrope choriale sur l'action de l'insecto-fungicide Dipterex concernant l'appareil génital de l'embryon. Gallus spec. (Aves)
PRZYBYLLOK, Th.; Dr.rer.nat. – Inst. für Entw.physiol., Univ. zu Köln, Gyrhofst. 17, 5 KÖLN 41, B.R.D. (Germany)
a Interaction of plant hormones in leaf morphogenesis. Antirrhinum majus (Scrophulariaceae)
b Biochemistry and analytical chemistry of plant hormones and their enzymes. Same species as a
PUCCI (MINAFRA), Ms. I. – Ist. di Anat. Comp., Univ. di Palermo, Via Archirafi 20, 90123 PALERMO, Italy
a Characterization of embryonic collagen and identification of its possible precursor. Paracentrotus lividus (Echinoidea)
PUCCIA, E.; D.Sc. – Ist. di Zool., Univ. di Palermo, Via Archirafi 18, 90123 PALERMO, Italy
a Isolation of actin in eggs. Ciona intestinalis (Ascidiacea)
b Ribosomal RNA synthesis during opercular regeneration. Hydroides norvegica (Polychaeta)
c Cyclic nucleotides during embryonic development. Discoglossus pictus (Anura)
PUELLES-LOPEZ, L.; M.D. – Dept. de Anat., Fac. de Med., BADAJOZ, Spain
a Light and electron microscopy of neuroblast migrations. Gallus gallus (Aves)
b Postmitotic neuroblast differentiation and migration patterns in optic tectum, retina and diencephalon. Same species as a
c Guidance mechanism of motor neuroblast migrations. Same species as a
PURI, E. C.; M.Sc. – Inst. of Cell Biol., Swiss Fed. Inst. of Technol., Hönggerberg, 8093 ZÜRICH, Switzerland
a In vitro myogenesis. Gallus domesticus (Aves)
b Control of cell proliferation. Same species as a

PYLILO, Miss I. V.; Cand.biol. – Dept. of Embryol., Leningrad State Univ., Mendeleevsky St. 5, 199164 LENINGRAD, U.S.S.R.
a Electron microscopy of regeneration. Bolinopsis infundibulum, Mertensia ovum (Ctenophora)
b Influence of starvation on integration of the organism and on regeneration. Criodrilus lacuum (Lumbricomorpha), Aeolosoma variegatum (Naidomorpha, Oligochaeta)

RADZIKOWSKI, St.; M.Sc. – Inst. of Zool., Warsaw Univ., Krakowskie Przedmieście 26/28, 00-927 WARSZAWA, Poland

RAEDLER, Ms. E.; Dr.med. – Abt. Neuroanat., Anat. Inst. der Univ., Martinistr. 52, 2000 HAMBURG 20, B.R.D. (Germany)
a Development of retina and brain before and after administration of DNA and RNA blocking drugs. Rattus spec. (Rodentia)

RAEKALLIO, J.; M.D., Prof. – Dept. of Forensic Med., Univ. of Turku, Kiinamyllynkatu 10, 20520 TURKU 52, Finland
a Biochemical characterization of enzymes appearing in early wound healing. Rattus spec., Cavia spec. (Rodentia) (with P. L. MÄKINEN)
b Biochemistry of vascular response in experimental wound healing. Same species as a, and Homo sapiens (Primates) (with P. L. MÄKINEN)
c Effect of ageing on the enzymes in wound healing. Same species as b
d Biological sequences in regeneration of subcutaneous connective tissue, using "Cellstic" method: cells in the exudate are harvested in cellulose sponge, inserted in silastic tubing (histology, histochemistry, biochemistry, immunofluorescence). Homo sapiens (Primates)

RAEVEN, M. B. J M.; Drs. – Dept. of Developm. Plant Biol., State Univ. of Groningen, Biol. Ctr., Kerklaan 30, HAREN (Gr.), Netherlands
a Biochemistry of wall formation. Schizophyllum commune (Basidiomycetes, Fungi)

RAFFIN, J. P.; Dr. – Équipe de Neuroembryol., Lab. d'Anat. Comp., Univ. Paris VII, 2 place Jussieu, 75221 PARIS Cedex 05, France
a Experimental morphogenesis of optic center and pathways. Gallus gallus (Aves)

RAFTELL, Ms. M.; Ph.D. – Dept. of Immunol., Wenner-Gren Inst. for Exp. Biol., Fack, 104 05 STOCKHOLM 50, Sweden
a Immunochemical studies on the reappearance of fetal enzyme active membrane antigens in chemically (DMAB) induced hepatomas. Rattus spec. (Rodentia)

RAGGHIANTI, Ms. M.; Dr.Biol. – Inst. of Histol. and Embryol., Univ. of Pisa, Via A.Volta 4, 56100 PISA, Italy
a Mitotic and lampbrush chromosomes in hybrids. Triturus spec. (Urodela)
b Electrophoretic studies in embryos and larvae. Same species as a
c Immunochemical characterization of yolk precursors in blood and their role in yolk sphere formation. Same species as a

RAGOZINA, Ms. M. N.; Dr.biol. – A. N. Severtzov Inst. of Evol. Morphol. and Ecol. of Animals, Acad. of Sci. of the USSR, Lenin Ave.33, MOSCOW 117071, U.S.S.R.
a Embryogenesis. Testudo graeca (Chelonia)

RAINERI, Ms. M.; Dr.Biol. – Ist. di Anat. Comp., Univ. di Genova, Via Balbi 5, 16126 GENOVA, Italy
a Histochemistry of biogenic amines in embryos. (Cirripedia & Branchiopoda: Crustacea)
b Cholinesterase and phosphatase isozymes in embryos and larvae. Same species as a
c Yolk metabolism in embryos and larvae. Same species as a

RAJTOVÁ, Ms. V.; M.V.Dr. – Dept. of Normal Anat., Sch. of Vet. Med., Komenského 73, 041 81 KOŠICE, Czechoslovakia
a Morphogenesis of the chondrocranium. Ovis aries, Capra hircus (Artiodactyla)
b Effect of single exposure to ionizing radiation on limb and chondrocranium development. Ovis aries (Artiodactyla)

RAMADE, F.; Prof. – Lab. de Zool., Univ. de Paris XI (Paris-Sud), Centre d'Orsay, Bât.442, 91405 ORSAY, France
a Effects of pesticides, especially organochlorine insecticides, on neuroendocrine system and on development and maturation of reproductive organs. Locusta migratoria (Orthoptera), Leucophaea maderae (Blattodea)

RAMIREZ, F.; Dr.Biol. – Ist. di Anat. Comp., Univ. di Palermo, Via Archirafi 20, 90123 PALERMO, Italy
a Regulation of hemoglobin synthesis. Homo sapiens (Primates)

RAMSAY (KUNZ), Ms. Y. W.; Dr.phil. – Unit Devl. Biol., Zool. Dept., Univ. Coll., Belfield, Stillorgan Rd., DUBLIN 4, Ireland
a Ultrastructure and histochemistry during development of 1) retinal photoreceptors and chorioid, and 2) the pseudobranch. Poecilia reticulata (Teleostei)
b Development of retinal photoreceptors under different light conditions. Same species as a
c Ultrastructure of the urinary bladder in the embryo. Same species as a

RANSOM, R. J.; Ph.D. – Inst. für Biol. III, Univ. Freiburg, Schänzlestr. 9-11, 7800 FREIBURG, B.R.D. (Germany)
a Development of the head imaginal disc: clonal analysis. Drosophila melanogaster, D. hydei (Diptera)
b Computer modelling of developing systems, both in specific instances (e.g. of subject a), and as more general abstract models

RANZI, S.; Ph.D., Prof. – Lab. di Zool., Univ. di Milano, Via Celoria 10, 20133 MILANO, Italy

RASHEDI, M.; D.Méd. – Lab. d'Histol. et d'Embryol., Univ. de Bordeaux II, Rue Leo-Saignat, 33076 BORDEAUX Cedex, France
a Role of testis in differentiation of genital duct. Gallus gallus (Aves)

RATCLIFFE, N. A.; Ph.D. – Dept. of Zool., Univ. Coll. of Swansea, Singleton Park, SWANSEA, Glamorgan, Wales, U.K.

RAUNICH, L.; Ph.D., M.D., Prof. – Ist. di Anat. Comp., Univ. di Ferrara, via L. Borsari 46, 44100 FERRARA, Italy

a Experiments on skull morphogenesis. Rana esculenta, Bufo bufo (Anura)

RAVEN, Chr. P.; Ph.D., Prof. (Emer.) – Rembrandtlaan 19, DOORN, Netherlands

a Computer simulation of embryonic development. (with J. J. BEZEM, Zool. Lab., State Univ. of Utrecht)

RAYNAUD, A.; Dr.ès Sci. – Serv. d'Embryol. Expér., Inst. Pasteur, 20 rue des Moulins, 95110 SANNOIS, France

REDI, C. A.; Prof. – Inst. of Histol., Embryol. and Anthropol., Univ. of Pavia, Piazza Botta 10, 27100 PAVIA, Italy

a Maternal malnutrition as a cause of placental insufficiency and of abnormal fetal development, especially cerebellar pre- and post-natal histogenesis (qualitative and quantitative histochemistry). Rattus rattus (Rodentia)

b Normal and pathological spermatogenesis (quantitative cytochemistry). (Mammalia)

REGARD, Ms. E. – Lab. de Biol.-Vertébr., Univ. Paris XI (Paris-Sud), Bât.441, 91405 ORSAY, France

RELEXANS, J. C.; D.Sc. – Lab. de Zool. A, Inst. de Biol. Anim., Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE, France

a Sexual differentiation in hermaphrodites. Eisenia spec. (Oligochaeta)

b Regeneration. Eisenia spec. (Oligochaeta), Salamandra spec., Triturus spec. (Urodela), Mus musculus (Rodentia)

REMBISZEWSKA, Ms. A.; B.Sc. – Dept. of Pathomorphol., Inst. of Obstet. and Gynecol., Med. School Warsaw, ul.Karowa 2, 00-315 WARSZAWA, Poland

a Mitotic activity of thymocytes and number of PAS-positive reticular cells in thymus with reference to birth wight, gestational age, postnatal period of life and associated pathology of foetus and newborn. Homo sapiens (Primates)

REMBOLD, H.; Dr.rer.nat., Prof. – Dept. of Insect Biochem., Max-Planck-Inst. für Biochem., 8033 MARTINSRIED b.München, B.R.D. (Germany)

a Isolation of the determining principle responsible for queen bee establishment from royal jelly and from pupae and adults. Apis mellifera (Hymenoptera)

b Biochemical aspects of queen determination; comparative studies on endocrinology, enzyme activities, mitochondria, protein and nucleic acid synthesis in queens and workers. Same species as a

c Biochemistry and histology of juvenile hormone action in caste formation. Same species as a

d Biochemical function of biopterin in development; metabolic studies with C14-pteridines. Same species as a

RENKAWITZ, R.; Dipl.Biol. – Inst. für Allgem. Biol., Univ. Düsseldorf, Ulenbergstr. 127–129, 4000 DÜSSELDORF, B.R.D. (Germany)

RENKAWITZ-POHL, Ms. R.; Dipl.Biol. – Inst. für Allgem. Biol., Univ. Düsseldorf, Ulenbergstr. 127-129, 4000 DÜSSELDORF, B.R.D. (Germany)

RESSOUCHES (SELMÈS), Ms. A. P.; Dr.biol.anim. – Lab. de Zool. Exp., Univ. de Bordeaux I, av. des Facultés, 33405 TALENCE, France

a Embryonic development. Pissodes spec. (Coleoptera)

b Ultrastructure of intracellular bacteroids. Same species as a

REUVENI, O.; Ph.D. – Agric. Res. Org., Volcani Ctr., P.O.Box 6, BET-DAGAN, Israel
temporarily: Bot. Labs., Univ. of Leicester, Adrian Bldg., University Rd., LEICESTER LE1 7RH, England

a Asexual reproduction by aseptic techniques. Phoenix dactylifera (Palmae), Musa cavendish (Musaceae), Persea americana (Lauraceae)

b The role of atmosphere in tissue and cell cultures

REVERBERI, G.; D.Sci., Prof. – Zool. Inst., Univ. of Palermo, Via Archirafi 18, 90123 PALERMO, Italy

RÉVÉSZ-FERENCZY, Ms. E.; M.D. – Dept. of Anat., Div. of Appl. and Topogr. Anat., Univ. of Bern, 26 Buehlstr., CH-3012 BERN, Switzerland

REYNAUD, G. R.; D.Sc. – Lab. de Morphogen. Exp. et Caryol., Univ. de Provence – Centre St. Charles, place Victor Hugo, 13331 MARSEILLE Cedex 3, France

a Étude des relations entre soma et germen. (Aves)

REYSS-BRION (DUCREAU), Ms. M.; D.Sc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49 bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France

a Différenciation sexuelle; inversion du sexe après ovariectomie. Gallus gallus, Coturnix c. japonica (Aves)

RIBBERT, D.; Dr.rer.nat. – Zool. Inst. der Univ., Badestr. 9, 44 MÜNSTER/Westf., B.R.D. (Germany)

a Karyology and RNA spectra in egg follicle development (radio-isotopes, electrophoresis). Calliphora erythrocephala (Diptera)

b Chromosome cytology of germ line cells (polytene chromosomes). Same species as a

c Chromosome cytology of developing macrochaetes (trichogene cells). (Calliphorinae; Muscidae, Diptera)

d Disproportionate DNA replication in nurse cell nuclei of meroistic ovaries (hybridization technique). Same species as c

RICHARD-MERCIER, Ms. N. – Lab. Sex. et Reprod. des Invertébr., Univ. Paris VI (P. et M. Curie), Bât.A, 7e étage, 4 place Jussieu, 75230 PARIS Cedex 05, France

a Control of sex differentiation. Leptinotarsa decemlineata (Coleoptera)

RICHARDS, G. P. – Dept. of Genet., Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3EH, England

RICHTER, K. H.; Ph.D. – Orthop. Klinik, Univ. Marburg, Schützenstr. 49, 355 MARBURG, B.R.D. (Germany)

a Control of fibroblast proliferation by chalones. Homo sapiens (Primates)

RICKENBACHER, J.; Dr.med., Prof. – Dept. of Anat., Histol., and Embryol., Univ. of Zürich, Gloriastr. 19, 8006 ZÜRICH, Switzerland

a Functional and morphological differentiation of circulatory system. Gallus gallus (Aves)

RICKWOOD, D.; Ph.D. – Dept. of Biol., Univ. of Essex, Wivenhoe Park, COLCHESTER, CO4 3SQ, England

a Molecular aspects of development at the level of gene transcription. Dictyostelium discoideum (Acrasiales)

RIEHL, R.; Dr. – Inst. für Allgem. und Spez. Zool., Stephanstr. 24, 6300 GIESSEN, B.R.D. (Germany)

a Oogenesis, stages of oocytes, spermatogenesis (light, transmission and scanning electron microscopy, histo- and ultrahistochemistry). Branchiostoma lanceolatum (Cephalochordata)

b Oogenesis, stages of oocytes, egg envelopes, follicle epithelium, formation of yolk (light and transmission electron microscopy, histochemistry, autoradiography, labelling of myofer). Heterandria formosa (Teleostei)

RINALDI, Ms. A. M.; Dr.Biol. – Ist. di Anat. Comp., Univ. di Palermo, Via Archirafi 20, 90123 PALERMO, Italy

a Negative nuclear control of RNA synthesis in early development. Paracentrotus lividus (Echinoidea)

b Mitochondrial DNA replication. Same species as a

c Mitochondrial RNA synthesis during development. Same species as a

RINAUDO, M. T.; Prof. – Inst. of Biochem., Univ. of Turin, Via Michelangelo 27, 10126 TORINO, Italy

a Protocollagen proline hydroxylase in embryonic eye, cartilage, and skin. Gallus domesticus (Aves)

b B-hydroxybutyrate dehydrogenase in embryonic and neonatal brain. Same species as a

c Glucose-6-phosphatase and fructosediphosphatase in the embryonic heart. Same species as a

RIPOLL, P.; Ph.D. – Sect. Devl. Genet., Inst. of Genet. CSIC, Ctr. of Molec. Biol., Univ. Autónoma de Madrid, Canto Blanco, MADRID 34, Spain

a Clonal behaviour of zygotic lethals in imaginal discs. Drosophila melanogaster (Diptera)

b Somatic cell genetics. Same species as a

RISNES, S. – Dept. of Anat., Dent. Fac., Univ. of Oslo, P.O.Box 1052, Blindern, OSLO 2, Norway

ROBECCHI GIACOBINI, M. G.; M.D. – Dept. of Human Anat., Univ. of Torino, Corso M.D'Azeglio 52, 10126 TORINO, Italy

a Development of motor unit under experimental conditions (electron microscopy). Gallus domesticus (Aves)

b Development of motor unit and myo-tendinous junctions under normal and experimental conditions (histochemistry, ultrastructure). Same species as a

ROBERT, L.; M.D. – Lab. de Biochim. du Tissue Conjonct., Univ. de Paris XII, 6 rue du Gén.Sarrail, 94000 CRÉTEIL, France

a Differentiation of mesenchymal tissues, cornea, and aorta; regulation of the biosynthesis of intercellular macromolecules: collagen, elastin, proteoglycan, and structural glycoproteins. (Demospongiae, Porifera), Gallus domesticus (Aves), Mus musculus, Rattus spec., Sus domesticus, Bos taurus, Homo sapiens (Mammalia)

b Molecular mechanism of cell free recognition (transplantation biology); role of structural glycoproteins. Mus musculus (Rodentia)

ROBERTS, A. M.; Ph.D. – Dept. of Zool., Univ., BRISTOL BS8 1UG, England

a Growth, anatomy and physiology of Rohon-Beard cells and sensory trigeminal ganglion cells in the embryo relating to development of behaviour. Xenopus laevis (Anura)

b Organisation of hind-brain and spinal cord for the control of swimming in the late embryo (anatomy, electrical recording). Same species as a and others (Amphibia)

ROBERTSON (PATON), Ms. E. M. – Inst. of Anim. Genet., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JN, Scotland, U.K.

a Development of imaginal buds. Drosophila spec. (Diptera)

RODA, A. – Inst. F. Olóriz, Fac. of Med., Univ. of Granada, GRANADA, Spain

a Electron microscopy of developing nervous system. Gallus gallus (Aves)

RODÈ, B.; Ph.D., Prof. – Dept. of Zool., Univ. of Zagreb, Rooseveltov trg 6, 41000 ZAGREB, and Dept. of Pathol., Fac. of Dent., Univ. of Zagreb, "Dr. M. Stojanović", 41000 ZAGREB, Yugoslavia

ROEST (WAGENAAR), Ms. J. A. – Anat.-Embryol. Inst., Univ. of Amsterdam, Mauritskade 61, AMSTERDAM-O., Netherlands

a Light microscopy, electron microscopy, histochemistry, physiology, and experimental teratogenesis of heart development in the embryo. Gallus domesticus (Aves), Mus musculus (Rodentia) (with H. M. LAANE and J. A. LOS)

b Cell interactions in the embryonic heart. Gallus domesticus (Aves) (with J. A. LOS)

ROGUEDA (VIGNAU), Ms. J.; Dr.Biol.anim. – Lab. de Zool. Exp., Univ. de Bordeaux I, Av. des Facultés, 33405 TALENCE, France

a Embryonic morphogenesis of the head. Carausius spec. (Phasmida)

b Cephalic endocrine glands and embryonic regeneration. Same species as a (with B. FOURNIER)

ROGULSKA, Ms. T.; Ph.D. – Dept. of Embryol., Zool. Inst., Univ. of Warsaw, Krak.Przedmieście 26/28, 00-927 WARSZAWA, Poland
a Origin and fate of primordial germ cells. Gallus domesticus (Aves)
b Differentiation of the somatic and germinal tissues of the gonad. Same species as a, and Mus musculus (Rodentia)
c Regulative capacities of the embryo. Same species as a, and Coturnix c. japonica (Aves)

ROHR, R.; Dr. – Lab. of Plant Cytol., Univ. of Nancy I, C.O.140, 54037 NANCY Cedex, France
a Abnormal development of male and female gametophytes in vitro; effect of different media on growth; tissue culture of haploid and diploid callus produced by these gametophytes. Ginkgo biloba, Taxus baccata and other spp. (Gymnospermae)

ROKYTA, R.; MUDr., CSc. – Inst. of Pathophysiol., Charles Univ., Lidická 1, 306 05 PLZEN, Czechoslovakia
a Interhemispherical connections between subcortical auditory centres, especially between medial geniculate bodies in development. Felis domestica (Carnivora), Rattus norvegicus (Rodentia), Oryctolagus cuniculus (Lagomorpha)
b The influence of GABA (gamma-aminobutyric acid), GHB (gamma-hydroxybutyrate) and 3APS (3-aminosulphuric acid) on the cortical somesthetic response after stimulation of different parts of the somesthetic pathway during early postnatal development. Rattus norvegicus (Rodentia), Oryctolagus cuniculus (Lagomorpha)
c Effect of GABA and GABA-like substances on specific and non-specific thalamocortical relations. Rattus norvegicus (Rodentia), Felis domestica (Carnivora)

ROMANOVA, Ms. Ł. K.; Dr.med. – Inst. of Human Morphol., Acad. of Med. Sci. of the USSR, Tsurupa St. 3, MOSCOW 117469, U.S.S.R.
a The restoration of lungs and liver. Mus musculus, Rattus norvegicus (Rodentia)
b Surfactant system of lung
c Glycocalyx of cells

ROMANOVSKÝ, A.; RNDr., D.Sc., Prof. – Dept. of Exp. Zool., Charles Univ., Viničná 7, 12844 PRAHA 2, Czechoslovakia
a Proteins in early development. (Amphibia)
b Transplantation of nuclei in relation to nucleic acids and proteins. (Amphibia) (with F. SLÁDEČEK and J. NEDVÍDEK)

ROMANOWSKA, Ms. E.; Dr. – Zool. Dept., Jagellonian Univ., Krupnicza 50, KRAKÓW, Poland
a Oogenesis. (Apterygota, Insecta)

ROMBOUT, J. H. W. M.; M.Sc. – Dept. of Exp. Anim. Morphol. and Cell Biol., Agric. Univ., "Zodiac", Marijkeweg, WAGENINGEN, Netherlands
a Neural crest origin, function and regulation of endocrine cells in the intestine. Barbus conchonius (Teleostei)

ROMIJN, H. J.; Dr. – Netherl. Inst. for Brain Res., IJdijk 28, AMSTERDAM, Netherlands
a Interaction of nerve cells and behaviour during maturation of the nervous system. Discoglossus pictus, Rana esculenta (Anura), Rattus norvegicus (Rodentia)

RONCALI, Ms. L., M.D. – Inst. of Human Anat., Fac. of Med., Univ. of Bari, Policlinico, 70124 BARI, Italy
a Modifications of vascular patterns during experimental twinning in the limb bud. Gallus domesticus (Aves)
b Modifications of vascular patterns following heterotopical grafts of limb bud apical ridge. Same species as a
c Vascular patterns of the spinal ganglia under normal and experimental conditions. Same species as a
d Relationships between degree of mitotic activity and denseness of vascular network under normal and experimental conditions. Same species as a
e Vascular patterns in the mesencephalon under normal and experimental conditions. Same species as a
f Vascular patterns in the cranial nerve ganglia. Same species as a

ROOY, R. E. de; Dr. – Lab. of Med. Chem., Sylvius Labs., State Univ., Wassenaarseweg 72, LEIDEN 2405, Netherlands
a Changes in amount and activity of the enzymes causing the synthesis and breakdown of brain lipids. Rattus spec. (Rodentia), Bos taurus (Artiodactyla), Homo sapiens (Primates)

ROSATI LAMPERIELLO, Ms. F.; Prof. – Stazione Zoologica, Villa Comunale, 80121 NAPOLI, Italy
a Physiology of fertilization. Ciona intestinalis, Ascidia malaca, Phallusia mamillata (Ascidiacea)

ROSS, J. W. R.; B.Sc., M.B., Ch.B. – Dept. of Anat., Charing Cross Hosp. Med. Sch., Fulham Palace Rd., LONDON W6 8RF, England
a Development of the eyelids. Homo sapiens (Primates)

ROSTAND, J. – 29 rue Pradier, 92 VILLE D'AVRAY, France

ROSTEDT, Ms. I. B.; Ph.D. – Centr. Publ. Health Lab., State Serum Inst., Mannerheimintie 166, 00280 HELSINKI 28, Finland
a Heterogeneous inductors on embryonic ectoderm. Gallus domesticus (Aves)
b Early embryonic development including immunology. Same species as a

ROSZCZYNSKA, Ms. G.; B.Sc. – Dept. of Pathomorphol., Inst. of Obstet. and Gynecol. Warsaw, ul.Karowa 2, 00-315 WARSZAWA, Poland
a Mitotic activity of thymocytes and number of PAS-positive reticular cells in thymus with reference to birth weight, gestational age, postnatal period of life and associated pathology of foetus and newborn. Homo sapiens (Primates)

ROTT, Ms. N. N.; Cand.biol.sci. – Inst. of Developm. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.

a Changes of mitotic cycle in early embryogenesis as related to changes in ionic concentrations and intercellular communication. Misgurnus fossilis, Salmo gairdneri, Cyprinus carpio (Teleostei), Ambystoma mexicanum (Urodela)

ROUSSEAU-MERCK, Ms. M. F.; Dr. 3e Cycle – Groupe de Rech. de Pathol. Pédiat., INSERM U77, Hôpital Necker Enfants Malades, 149 rue de Sèvres, 75730 PARIS Cedex 15, France

a La différenciation et les potentialités de différenciation du néphroblastome, Homo sapiens (Primates): 1. associations in vitro avec des organes embryonnaires de Gallus domesticus (Aves) ou Mus musculus (Rodentia) inducteurs de l'organogénèse rénale normale; 2. mise en évidence d'antigènes particuliers aux tubes proximaux rénaux

ROUSSEL, C.; Dr.Méd. – Lab. d'Embryol., U.E.R. Bioméd., 45 rue des Sts.Pères, 75270 PARIS Cedex 06, France

a Mode d'action de certaines substances tératogènes (Triton WR 1339). (Mammalia)

b Mécanismes d'action de substances embryotoxiques (transfert d'oeufs). (Rodentia) (avec L. MERCIER)

ROUSSEV, G. K.; Dr., Prof. – Med. Res. Inst., Ovtcha Koupel, SOFIA 18, Bulgaria

ROUX, Ch.; Dr.Méd., Prof. – Lab. d'Embryol. et de Cytogénét., Fac. de Méd. Saint-Antoine, 27 rue Chaligny, 75571 PARIS Cedex 12, France

a Teratogenetic action of inhibitors of cholesterol synthesis. Rattus spec., Mesocricetus auratus, Mus musculus (Rodentia), Oryctolagus cuniculus (Lagomorpha)

b Teratogenesis by irradiation. Rattus rattus (Rodentia)

ROWSON, L. E. A.; F.R.C.V.S., – A.R.C. Unit of Reprod. Physiol. and Biochem., Anim. Res Station, 307 Huntingdon Rd., CAMBRIDGE CB3 0JQ, England

RUANO GIL, D.; Dr., Prof. – Dept. of Anat., Univ. of Barcelona, C/.Casanova 143, BARCELONA 11, Spain

a Development of neural retina and lens. Gallus domesticus (Aves)

b Development of the ureter

c Experiments on the development of the joints. Same species as a

RUBTSOV, V. V. – A. N. Severtzov Inst. of Evol. Morphol. and Ecol. of Animals, Acad. of Sci. of the USSR, Lenin Ave. 33, MOSCOW 117071, U.S.S.R.

a Electron microscopy of egg membrane structure. (Teleostei)

RUCH, J. V.; Dr.Méd., D.Sc., Prof. – Inst. d'Embryol., Univ. de Strasbourg, 4 rue Kirschleger, 67085 STRASBOURG Cedex, France

a Epithelial-mesenchymal interactions, mitosis, and differentiation in teeth. Mus musculus (Rodentia)

RUNN, P.; Fil.kand. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden

a Morphological aberrations in embryos exposed to pollutants. (Teleostei)

RUSSO-CAIA, S.; Prof. – II. Chair of Histol. and Embryol., Fac. of Sci., Univ. of Roma, Città Universitaria, 00100 ROMA, Italy

a Cytochemistry and autoradiography of mesonephros regression. (Aves; Mammalia)

b Mechanism of metamorphosis: histolysis, especially lysosomal enzymes. Musca domestica (Diptera)

c Ultrastructural observations on the presence of juxtaglomerular cells in the embryonic kidney. Same species as a

d Cytochemistry and autoradiography of oogenesis, especially nucleic acid metabolism in nurse cells. (Diptera; Coleoptera)

e Cytochemistry of lymphatic organs. (lower Vertebrata)

RUSU, Ms. V. M. – Biol. Res. Ctr., Str. Republicii No. 48, 3400 CLUJ-Napoca, Rumania

a Influence of unusual incubation temperature on development of antibody forming cells. Gallus spec. (Aves)

RYABININA, Ms. Z. A.; Cand.biol.sci. – Inst. of Human Morphol., Acad. of Med. Sci. of the USSR, Tsurupa St. 3, MOSCOW 117469, U.S.S.R.

a Regeneration of inner organs. Mus musculus, Rattus norvegicus (Rodentia)

RYBERG, Ms. E.; M.Sc. – Wenner-Gren Inst. for Exp. Biol., Norrtullsgatan 16, 113 45 STOCKHOLM, Sweden

a Histochemistry and histology of an impulse conducting system in the pluteus. Psammechinus miliaris (Echinoidea)

RYCZKOWSKI, M.; Doc., Dr. – Lab. of Plant Physiol., Inst. of Molec. Biol., Jagellonian Univ., Grodzka 53, 31-001 KRAKÓW, Poland

a Respiration rate (Q02) of the developing fruit, ovule, embryo, coat and endosperm tissue in different environments. (Angiospermae)

b Quantitative and qualitative changes of the pigments in the developing embryo. (Angiospermae)

c Concentration gradients of low molecular compounds in the developing ovule. (Angiospermae)

RYFFEL, G. U.; Ph.D. – Div. of Cell and Devl. Biol., Zool. Inst., Univ. of Bern, Sahlistr. 8, 3012 BERN, Switzerland

a Regulatory mechanism of estrogen-dependent synthesis of vitellogenin. Xenopus laevis (Anura) (with R. WEBER)

RYLAND, J. S.; Ph.D. – Dept. of Zool., Univ. Coll. of Swansea, Singleton Park, SWANSEA, Glamorgan, Wales, U.K.

RZEHAK, K.; Ph.D. – Dept. of Biol. and Embryol., Med. Acad., ul.Kopernika 7, 31-034 KRAKÓW, Poland

a Movements of pigment and cytoplasm after fertilization. (Anura) (with G. A. UBBELS, Utrecht)

b Cytokinesis of cleaving eggs. (Amphibia)

c Teratogenic effects of insecticides. (Anura)

SAAG, P. T. van der; Ph.D. – Hubrecht Lab. (Intern. Embryol. Inst.), Uppsalalaan 8, 3584 CT UTRECHT, Netherlands
a Biosynthesis of soluble proteins in early development (isoelectric focusing, autoradiography). (Amphibia) (with S. K. BRAHMA, State Univ. of Utrecht)
b Regulation of the cell cycle and its significance for development and differentiation: the role of changes in membrane properties and structure, ion and cyclic nucleotide metabolism. Neuroblastoma cells, Mus musculus (Rodentia) (with J. G. BLUEMINK, S. W. de LAAT, W. H. MOOLENAAR and S. A. NELEMANS)

SABBADIN, A.; Dr., Prof. – Ist. di Biol. Anim., Univ di Padova, Via Loredan 10, 35100 PADOVA, Italy
a Germ cell origin and differentiation. Botryllus schlosseri (Ascidiacea)

SABELLI, B.; Dr. – Inst. of Zool., Univ. of Bologna, Via S. Giacomo 9, 40126 BOLOGNA, Italy
a Oogenesis in parthenogenetic and amphigonic eggs. Daphnia spec. (Cladocera, Crustacea)
b Regeneration and origin of germ cells. Mercierella enigmatica (Serpulidae, Polychaeta)
c Origin of germ cells and sex differentiation. Sphaerium corneum (Lamellibranchia), Goniodiscus rotundatus (Gastropoda)

SACARRÃO, G. da FONSECA; D.Sc., Prof. – Fac. de Ciênc., Museu Bocage, Ruada Escola Politécnica, LISBOA-2, Portugal
no work on developmental biology in progress

ŠAFANDA, J.; ing.chem. – Inst. of Pathophysiol., Charles Univ., Lidická 1, 306 05 PLZEŇ, Czechoslovakia
a Characteristics of the transport of 4-aminobutyric acid in developing brain. Rattus spec. (Rodentia)

SAKUN, Ms. O. F.; Cand.biol.sci. – Lab. of Exp. Ichthyol., Biol. Inst., Leningrad State Univ., Stary Peterhof, LENINGRAD 198904, U.S.S.R.
a Effect of X-irradiation on gametogenesis. (Chondrostei; Teleostei)

SALA, M.; Dr.biol., Prof. – Ist. di Biol. Anim., Univ. di Padova, Via Loredan 10, 35100 PADOVA, Italy
a Embryonic and adult hemoglobin. (Anura; Urodela)
b Developmental variations in parabiotic twins. Rana dalmatina, R. esculenta (Anura)
c Molecular aspects of neural induction. (Urodela)
d Effect of some drugs on early embryonic development. (Amphibia)

SALAMATINA, Ms. N. V. – Dept. of Gerontol., Inst. of Exp. Morphol., Acad. of Sci. of the Georgian SSR, Digomi, TBILISI 380059, U.S.S.R.
a Role of chemical intercellular interactions in the regulation of the rate of cell multiplication and intracellular synthesis, studied in cell cultures and in vivo. Gallus domesticus (Aves), Rattus norvegicus, Mus musculus (Rodentia)
b Cytogenetics of aged persons. Homo sapiens (Primates)

SALAÜN, Ms. J.; D.Sc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Formation expérimentale d'embryomes homoplastiques et hétéroplastiques. Gallus gallus (Aves), Rattus rattus (Rodentia)
b Influence réciproque des cellules cancéreuses et embryonnaires réunies sur un même hôte. Rattus rattus, Mus musculus (Rodentia)
c Les capacités de différenciation des cellules embryonnaires et des cellules du tératocarcinome de Stevens. (Mammalia)

SALMONS, S.; Ph.D. – Dept. of Anat., Med. School, Univ. of Birmingham, Edgbaston, BIRMINGHAM B15 2TJ, England
a The part played by impulsive activity in the late stage of differentiation of fast and slow skeletal muscle (electronic stimulators; physiology, biochemistry, and histochemistry). Oryctolagus cuniculus (Lagomorpha)

SALONEN, J. E. K.; B.M. – Lab. of Exp. Embryol., III.Dept. of Pathol., Univ. of Helsinki, Haartmaninkatu 3, 00290 HELSINKI 29, Finland
a Mechanism of kidney tubulogenesis. Mus musculus (Rodentia) (with L. O. SAXÉN, J. J. WARTIOVAARA, E. LEHTONEN, S. NORDLING, and P. EKBLOM)

SALVADOR, G. F.; Dr.-Ing. – Dépt. de Biol. Gén. et Appl., Univ. de Lyon I, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France
a Control of delta-aminolevulinic acid synthesis during chloroplast morphogenesis. Euglena gracilis (Euglenophyceae)

SALVATORELLI, G.; Ph.D., Prof. – Ist. di Anat. Comp., Univ. di Ferrara, via L. Borsari 46, 44100 FERRARA, Italy
a Factors in foetal erythropoiesis. Gallus domesticus (Aves)
b Erythropoiesis and leucopoiesis during metamorphosis. Bufo bufo (Anura)
c Embryonic and foetal erythropoiesis. Cavia porcellus (Rodentia)
d Purification and chemical identification of erythropoietic factor in embryonic liver extracts. Same species as a

SALZGEBER, Ms. B.; D.Sc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Étude des effets tératogènes (malformations de membres) obtenus 1) par l'ypérite azotée (chlorethylamine), 2) par la thalidomide (phtalimidoglutarimide). Gallus spec. (Aves)
b Recherches sur la genèse des malformations de membres. Gallus domesticus (Aves)

SAMARUT, J.; Dr.spéc. – Dépt. de Biol. Gén. et Appl., Univ. de Lyon I, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France
a Development of haemopoietic stem cells. Gallus domesticus (Aves)

SANDER, K.; Ph.D., Prof. – Biol. Inst. I (Zool.) der Univ., Albertstr. 21a, 78 FREIBURG, B.R.D. (Germany)
a Early stages of embryogenesis: epigenetics of segment pattern, blastokinesis. Euscelis plebejus (Cicadina, Homoptera), (Chironomidae, Diptera)
b Developmental physiology of embryonic mycetomes. Euscelis plebejus and other spp. (Cicadina, Homoptera)
SANDOR, S.; Dr.med. – Lab. of Embryol., Ctr. of Hyg. and Publ. Health, Bv. Mihai Viteazul 24, 1900 TIMIŞOARA, Rumania
a Experimental teratology and teratological screening. Rattus norvegicus, Mus musculus (Rodentia)
b Development of embryonic axial organs (somitogenesis). Gallus domesticus (Aves)
SANFO, S.; M.Sc. – Lab. de Morphogen. Végét., Univ.d'Aix-Marseille III, Fac. St-Jérôme, rue Henri Poincaré, 13397 MARSEILLE Cedex 4, France
a Control of leaf growth and of leaf sensibility to various inhibitors according to developmental stage. Gleditsia triacanthos (Leguminosae)
SANTAMARIA, P.; Ph.D. – Biol. Inst. I (Zool.), Albertstr. 21a, 7800 FREIBURG, B.R.D. (Germany)
a Analysis of wing development in scalloping mutants by means of somatic recombination: allele homozygosity at different times of development, and clonal analysis of the mutant wing. Drosophila melanogaster (Diptera)
b Analysis of embryo development by means of nuclear transplantation. Drosophila melanogaster, D. simulans, D. erecta, D. subobscura (Diptera)
SANTORO D'ANGELO, Ms. L.; Prof. – Ist. di Biol. Gen., Univ. di Roma, Policlinico Umberto I, 00100 ROMA, Italy
a Effects of gravity acceleration during growth of primary root. Vicia faba (Papilionaceae)
b Effects of l-asparaginase, strychnin, and veratrum during embryonic development. Rana esculenta, Bufo vulgaris (Anura)
c Effect of food dyes on embryos. Xenopus laevis (Anura)
SANYAL, S.; Ph.D. – Dept. of Anat., Erasmus Univ., Postbox 1738, ROTTERDAM 3002, Netherlands
SAUER, H. W.; Dr.rer.nat., Prof. – Zool. Inst. der Univ., Röntgenring 10, 8700 WÜRZBURG, B.R.D. (Germany)
a Activities of isolated and endogenous nuclear RNA polymerases in relation to differential transcription in the developmental cycle. Physarum polycephalum (Eumycetozoina)
b Replication-transcription coupling in the mitotic cycle. Same species as a
SAUNDERS, D. S.; Ph.D. – Dept. of Zool., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JT, Scotland, U.K.
SAUSSEY, M.; D.Sc., Prof. – Lab. d'Embryol., U.E.R. de Sci., Univ. de Caen, 14032 CAEN, France
a Regeneration, sexuality and diapause. Allolobophora icterica, A. spp. (Oligochaeta)
SAUZIN-MONNOT, Ms. M. J. – Lab. de Biol. Anim. A, Fac. des Sci., Univ. Paris-Sud, Bât.445, 91405 ORSAY, France
SAXÉN, L. O.; M.D., Phil.lic., Prof. – Lab. of Exp. Embryol., III. Dept. of Pathol., Univ. of Helsinki, Haartmaninkatu 3, 00290 HELSINKI 29, Finland
a Mechanism of kidney tubulogenesis. Mus musculus (Rodentia) (with J. J. WARTIOVAARA, E. LEHTONEN, S. NORDLING, P. EKBLOM and J. SALONEN)
SAXOD, R.; D.Sc. – Lab. de Zool. et Biol. Anim., Univ. Sci. et Méd. de Grenoble, B.P.53, Centre de Tri, 38041 GRENOBLE, France
a Experiments on the differentiation of cutaneous sensory corpuscles. Gallus domesticus, Anas platyrhynchos (Aves), Mus musculus, Rattus rattus (Rodentia)
b Development of cutaneous nerve supply and nerve compensation; neurotaxis. Gallus domesticus (Aves)
c In vitro associations of spinal ganglia and dermal mesenchyme for the study of development of cutaneous sensory end organs. Same species as a
SAZHINA, Ms. M. V.; Cand.biol.sci. – Phenogenet. Lab., Inst. of Gen. Genet., Acad. of Sci. of the USSR, Profsojuznaya St. 7 (I) MOSCOW 117312, U.S.S.R.
a Developmental study of mutant gene effects on cell proliferation and differentiation. Mus musculus (Rodentia)
SCARANO, E. – Lab. Intern. di Genet. e Biofis., Via G. Marconi 10, 80125 NAPOLI, Italy
SCHÄFER, U. – Inst. für Allgem. Biol., Univ. Düsseldorf, Universitätsstr. 1, 4000 DÜSSELDORF, B.R.D. (Germany)
a Gene physiology, Y chromosome. Drosophila spp. (Diptera)
b Genetic regulation of differentiation; male germ line cells. Drosophila hydei, D. neohydei (Diptera)
c Magnification of ribosomal RNA genes in the Y chromosome. Drosophila hydei (Diptera)
SCHARLOO, W.; Ph.D., Prof. – Dept. of Popul. and Evol. Biol., Genet. Inst., State Univ., Transitorium III, Padualaan 8, UTRECHT, Netherlands
SCHEDL, P.; Ph.D. – Abt. Zellbiol., Biozentrum der Univ., Klingelbergstr. 70, 4056 BASEL, Switzerland
a Determination of imaginal discs using Drosophila/Col E1 plasmid hybrids. Drosophila melanogaster (Diptera)
SCHEIB (PFLEGER), Ms. D.; D.Sc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Experimental intersexuality: conditions and mechanism of transformation of male gonads by oestrogens and of female right gonads by ovariectomy. Gallus domesticus, Coturnix c. japonica (Aves)

b Radioimmunoassay of in vitro steroid biosynthesis by embryonic gonads; experimental control. Same species as a

SCHELLER, K.; Ph.D. – Physiol.-Chem. Inst. I, Univ. Marburg, Lahnberge, 355 MARBURG 1, B.R.D. (Germany)

a Changes in the developmental-physiological competence of fat body nuclei during postembryonic development; influence of ecdysteroids and juvenile hormone on the regulation of transcription; changes in gene expression during larval development. Calliphora erythrocephala (Diptera)

SCHERFT, J. P.; M.D. – Lab. for Cell Biol. and Histol., State Univ., Rijnsburgerweg 10, LEIDEN, Netherlands

a Development and early stages of calcification of the diaphyseal bone collar of radii in 14-18-day-old embryos (electron microscopy). Mus musculus (Rodentia)

SCHERINI, Ms. E. – Inst. of Histol., Embryol. and Anthropol., Univ. of Pavia, Piazza Botta 10, 27100 PAVIA, Italy

a Maternal malnutrition as a cause of placental insufficiency and of abnormal fetal development, especially cerebellar pre- and post-natal histogenesis (qualitative and quantitative histochemistry). Rattus rattus (Rodentia)

b Normal and pathological spermatogenesis (quantitative cytochemistry). (Mammalia)

SCHERRER, K.; Dr., Prof. – Inst. de Rech. en Biol. Mol. du C.N.R.S., Univ. Paris VII, 2 place Jussieu (Tour 43), 75221 PARIS Cedex 05, France

a Transcription of the globin genes in early development. Gallus domesticus (Aves)

b Abortive transcription of globin genes in erythroleukaemic cells. Same species as a

c Gene transcription in oocytes. Gallus domesticus, Coturnix c. japonica (Aves)

SCHIEBLER, Th. H.; Dr.med., Prof. – Dept. of Anat., Univ. of Würzburg, Koellikerstr. 6, 87 WÜRZBURG, B.R.D. (Germany)

a Chemo-differentiation of different parts of the brain (e.g. nucleus ruber) by enzyme-histochemical and experimental methods. Rattus norvegicus (Rodentia)

b Development of the terminal vascular bed of the heart. Rattus norvegicus (Rodentia)

c Electron microscopy of the full-term placenta. Homo sapiens (Primates)

SCHILT, J.; D.Sc. – Lab. de Zool., Univ. de Nancy I, C.O.140, 54037 NANCY Cedex, France

a Role of nervous system in pharynx induction. Dugesia lugubris (Turbellaria)

b Roles of territory and nervous system in regeneration. Same species as a

SCHLOOT, W.; Dr.rer.nat., Prof. – Inst. für Genet. und Humangenet., Univ. Bremen, Achterstr. NW2, 2800 BREMEN 33, B.R.D. (Germany)

a Developmental genetics of various enzymes; prenatal diagnosis; genetic counselling. Homo sapiens (Primates)

b Influence of psychotropic drugs and metabolism in embryogenesis. Oryctolagus cuniculus (Lagomorpha)

SCHMID, V. S.; Dr.phil. – Zool.-Vergl. Anat. Inst., Univ. Zürich, Künstlergasse 16, 8006 ZÜRICH, Switzerland

a Differentiation potentialities of cells. (Hydrozoa)

b Tissue stability and metaplasia in the development of medusae buds. Podocoryne carnea (Hydrozoa)

c Factors controlling regeneration in medusae. (Hydrozoa)

SCHMIDT, E. R.; Dr. – Abt. Biol., Arb.gr. Entw.physiol. der Tiere, Ruhr-Univ., 4630 BOCHUM, B.R.D. (Germany)

a Substructure of chromatin by enzyme degradation techniques. Ephestia kuehniella and other spp. (Lepidoptera)

b DNA and nuclear RNA in chromatin fractions. Same species as a

SCHMIDT, G. A.; Dr.biol., Prof. – A. N. Severtzov Inst. of Evol. Morphol. and Ecol. of Animals, Acad. of Sci. of the USSR, Lenin Ave.33, MOSCOW 117071, U.S.S.R.

a Embryology. Camelus bactrianus (Artiodactyla)

b Factors of ontogenesis; evolution. Placentalia (Mammalia)

SCHMIDT, G. H.; Dr.rer.nat., Prof. – Inst. für Pflanzenkrankh. und Pflanzenschutz, Tech. Univ., Herrenhäuser Str. 2, 3 HANNOVER-Herrenhausen, B.R.D. (Germany)

a Postembryonic development. several spp. (Orthoptera), Formica polyctena, F. pratensis (Hymenoptera) and others

b Caste determination. Formica spec. and others (Formicoidea, Hymenoptera)

SCHNETTER, W.; Dr.rer.nat. – Physiol. Lehrst., Zool. Inst. der Univ., Im Neuenheimer Feld 230, 69 HEIDELBERG, B.R.D. (Germany)

a Early embryology. Leptinotarsa decemlineata (Coleoptera)

b Morphogenetic function of egg components; transplantation of nuclei and ooplasm. Same species as a

c Synthesis of RNA and protein during early embryogenesis. Same species as a

SCHOELLER (RACCAUD), Ms. J.; D.Sc., Prof. – Lab. de Physiol. des Insectes, Univ. Paris VI, 7 quai Saint Bernard, 75230 PARIS Cedex 05, France

a Expériments sur la céphalogenèse larvaire et imaginale. Calliphora spec. (Diptera)

b Etat de détermination des disques imaginaux. Calliphora erythrocephala (Diptera)

c Embryogenèse de mutants léthaux. Drosophila spec. (Diptera)

SCHOPFER, P.; Dr.rer.nat., Prof. – Biol. Inst.II der Univ., Lehrst. für Bot., Schänzlestr. 1, 78 FREIBURG/Br., B.R.D. (Germany)

a Physiological and molecular study of the control mechanisms involved in photomorphogenesis of seedlings. Sinapis alba (Cruciferae)

SCHOUTEN, S. C. M.; Drs. – Dept. of Popul. and Evol. Biol., Genet. Inst., State Univ., Transitorium III, Padualaan 8, UTRECHT, Netherlands

SCHOWING, J.; D.Sc., Prof. – Dépt. d'Embryol. et Tératol. Exp., Inst. de Biol. Anim., Fac. des Sci., Univ. de Fribourg, 1700 FRIBOURG, Switzerland
a Morphogenèse du crâne et induction céphalique. Gallus gallus (Aves)
b Action des alcaloides de liliacées sur la morphogenèse de la tête. Gallus gallus (Aves), Mus musculus (Rodentia)
c Lésions par substances toxiques. Espèces comme b
SCHRAUWEN, J. A. M.; Drs. – Dept. of Bot., Sect. Molec. Developm. Biol., Cathol. Univ., Toernooiveld, NIJMEGEN, Netherlands
a Interaction processes after fusion of different strains. Physarum polycephalum (Myxomycetes)
SCHROEDER, H. E.; Dr.med.dent., Prof. – Zahnärztl. Inst., Abt. Orale Strukturbiol., Univ. Zürich, Plattenstr. 11, 8028 ZÜRICH, Switzerland
a Development of oral tissues, especially tooth papilla, pulp and mucous membrane (microscopy, stereology, 3-dimensional reconstructions). Homo sapiens (Primates)
SCHULTHEISS, H.; Dr. – Zool. Inst.II, Univ. (T.H.) Kaiserstr. 12, Postfach 6380, 75 KARLSRUHE 1, B.R.D. (Germany)
a Regulation of nitrogen metabolism by hormones during metamorphosis. Ambystoma spec. (Urodela), Xenopus laevis (Anura)
b Regulation of the skin diffusional permeability to water by hormones during metamorphosis. Same species as a
c Hormonal regulation of thyroid activity. Ambystoma mexicanum (Urodela)
SCHUMACHER, G. H.; Dr.sc.med., Dr.med.dent., Prof. – Anat. Inst., Wilhelm-Pieck Univ., Gertrudenstr. 9, 25 ROSTOCK 1, D.D.R. (Germany)
SCHÜPBACH, Ms. T. – Zool.-Vergl. Anat. Inst., Univ. Zürich, Künstlergasse 16, 8006 ZÜRICH, Switzerland
a Fate map of the genital disc in gynandromorphs. Drosophila melanogaster (Diptera)
b Larval hypoderm in gynandromorphs. Same species as a
SCHÜRMANN, F. W.; Dr. – Lehrst. Exper. Morphol., Zool. Inst. der Univ. zu Köln, Weyertal 119, 5000 KÖLN 41, B.R.D. (Germany)
a Metamorphosis of the brain: growth of mushroom bodies, synaptogenesis. Apis mellifera (Hymenoptera)
b Regeneration of motor neurons and sensory cells. Acheta domesticus, Gryllus campestris (Orthoptera)
SCHWARTZ, V.; Dr.rer.nat., Prof. – Wolfgang Stock Str. 2, 7400 TÜBINGEN, B.R.D. (Germany)
a Development of macronuclear anlagen. Paramecium bursaria (Ciliata)
SCHWEIGER, H. G.; Dr.med., Prof. – Max-Planck-Inst. für Zellbiol., Anton-Dohrn-Weg, Postfach 1009, 294 WILHELMSHAVEN, B.R.D. (Germany)
a Biochemical aspects of nucleo-cytoplasmic interrelationships. Acetabularia spec. (Chlorophyceae)
b Autonomy of chloroplasts. (Algae)
c RNA synthesis in nucleate and anucleate cells. (Algae)
d Cooperation between different subcellular components in morphogenesis. (Algae)
SCHWOCHAU, M. E.; Dr.rer.nat., Prof. – Inst. für Allgem. Biol., Univ. Düsseldorf, Universitätsstr. 1, 4000 DÜSSELDORF, B.R.D. (Germany)
a Molecular biology and genetics of the Y-chromosome. Drosophila spp. (Diptera)
SCONZO, Ms. G. – Ist. di Anat. Comp., Univ. di Palermo, Via Archirafi 20, 90123 PALERMO, Italy
a RNA synthesis in early development. Paracentrotus lividus (Echinoidea)
b Giant RNA in the cytoplasm of embryos. Same species as a
c "Capping" of RNA. Same species as a
SCOPELLITI, R.; Dr.Biol.Sci. – Ist. di Zool. "F. Raffaele", Univ. di Roma, Viale dell'Università 32, 00161 ROMA, Italy
SCRIBA, M. E. L.; Ph.D., Prof. – Inst. für Zool., Rhein.-Westf.-Techn. Hochschule, Kopernikusstr. 16, 51 AACHEN, B.R.D. (Germany)
a Developmental abnormalities caused by lethal factors. Drosophila melanogaster (Diptera)
b Comparative histology of cortical granules in oocytes. (Teleostei)
SEARLE, R. F.; Ph.D. – Dept. of Pathol., Univ. of Bristol, University Walk, BRISTOL BS8 1TD, England
a Immunology of reproduction. Mus musculus (Rodentia), Homo sapiens (Primates)
b Biology of the trophoblast. Same species as a
c Early embryonic development. Mus musculus (Rodentia)
SEDDON, B.; Ph.D. – Dept. of Devl. Biol., Marischal Coll., Aberdeen Univ., ABERDEEN AB9 1AS, Scotland, U.K.
a Sporulation characteristics in wild-type and antibiotic-negative mutants. Bacillus brevis (Bacteria)
SEDLAČEK, J.; M.D., Ph.D. – Res. Lab. of Psychiat., Div. of Embryophysiol. CNS, Charles Univ., Albertov 5, 12800 PRAHA 2, Czechoslovakia
a Development of spontaneous and evoked phasic activity and of central excitation and inhibition in the central nervous system in the prenatal period. (Aves)
b Neuropharmacology of embryonic spontaneous motility. (Aves)
SEICHERT, V.; MUDr. – Dept. of Anat., Charles Univ., U nemocnice 3, 12800 PRAHA 2, Czechoslovakia
a Experimental analysis of limb formation. Gallus domesticus (Aves)
SEIDEL, F.; Dr.phil., Prof. (Emer.) – Zool. Inst. der Univ., Ketzerbach 63, 355 MARBURG/Lahn, W.Germany
SEKERIS, C. E.; Ph.D., Prof. – Inst. of Cell Res., German Canc. Res. Ctr., Im Neuenheimer Feld 280, Postfach 101949, 69 HEIDELBERG 1, B.R.D. (Germany)

a Transcription of chromatin from epidermis by insect DNA-dependent RNA polymerases. Calliphora erythrocephala (Diptera)
b Translation of mRNA in an homologous in vitro system. same species as a
c In vivo and in vitro synthesis of calliphorin and drosophilin: regulation of specific mRNA levels. (Diptera)

SELLENS, M. H.; Ph.D. – Dept. of Pathol., Univ. of Bristol, University Walk, BRISTOL BS8 1TD, England
a Immunology of reproduction. Mus musculus (Rodentia), Homo sapiens (Primates)
b Biology of the trophoblast. Same species as a
c Early embryonic development. Mus musculus (Rodentia)

SELLER, Ms. M. J.; Ph.D. – Paediat. Res. Unit., Guy's Hosp. Med. Sch., Guy's Tower, LONDON SE1 9RT, England
a Experimental teratology. (Mammalia)
b Experimental production of chimaeras by tissue transplantation. Same species as a
c Alpha-fetoproteins. Homo sapiens (Primates)
d Genetics and aetiology of neural tube defects in the curly-tail mutant. Mus musculus (Rodentia)

SELMAN, G. G.; Ph.D. – Inst. of Anim. Genet., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JN, Scotland, U.K.
a Ultrastructural and experimental studies of cleavage and morphogenesis. Triturus alpestris (Urodela), Xenopus laevis (Anura)

SEMBRAT, K.; Ph.D., D.Sc., Prof. (Emer.) – Inst. of Zool., Univ. of Wrocław, ul.Sienkiewicza 21, 50-335 WROCŁAW, Poland
a Cytology and cytochemistry of partial metamorphosis. Triturus spec. (Urodela)
b Cytology and cytochemistry of gametogenesis. Embletonia pallida (Opisthobranchia, Gastropoda)

SENATORI, Ms. O.; Dr.biol.sci. – Ist. di Zool. "F. Raffaele", Univ. di Roma, Viale dell'Università 32, 00161 ROMA, Italy

SENGEL, Ph.; D.Sc., Prof. – Lab. de Zool. et Biol. Anim., Univ. Sci. et Méd. de Grenoble, B.P.53, Centre de Tri, 38041 GRENOBLE, France
a Mechanisms of feather pattern development. Gallus domesticus (Aves)
b Ultrastructure of skin development and feather keratins. Same species as a
c Behaviour of cultured embryonic dermal and epidermal cells. Same species as a
d Scanning electron microscopy of dermal and epidermal cell morphology and contacts during feather development. Same species as a

SENTEIN, P.; Dr.méd., D.Sc., Prof. – Lab. d'Histol. et d'Embryol., Univ. de Montpellier, 2 rue Ecole de Médecine, 34060 MONTPELLIER Cedex, France

ŠERMAN, D.; D.Sc. – Inst. of Biol., Fac. of Med., Univ. of Zagreb, Šalata 3, P.O.Box 166, 41001 ZAGREB, Yugoslavia
a Foetal proteins in differentiation. Rattus norvegicus (Rodentia) (with N. ŠKREB)
b Protein patterns in embryo-derived teratocarcinomas and in host serum (polyacrylamide electrophoresis). Mus musculus (Rodentia)
c Alphafetoprotein, lactate dehydrogenase, cytosol and chromosomal proteins during intrauterine development. Homo sapiens (Primates)

SERRANTINO (DI DINO), Ms. G.; Dr.rer.nat. – Ist. di Anat. Umana Norm., Univ. di Catania, Via Biblioteca 4, 95124 CATANIA, Italy
a Development of the ciliary ganglion in normal and anencephalic embryos. Homo sapiens (Primates)

SERRI, F.; M.D., Prof. – Dept. of Dermatol., Univ. of Pavia, Policlinico S. Matteo – P. le Golgi, 27100 PAVIA, Italy
a Development of the hair. Homo sapiens (Primates)

ŠEVALJEVIĆ (MIRKOVIĆ), Mrs. Lj.; Ph.D. – Lab. of Developm. Biochem., Inst. for Biol. Res., 29 Novembra 142, 11050 BEOGRAD, Yugoslavia

ŠEVČENKO, Ms. G.; MUDr. – Inst. of Embryol., Charles Univ., Albertov 4, 128 00 PRAHA 2, Czechoslovakia
a Development and cytodifferentiation of the oesophagial epithelium (light and electron microscopy). Rattus rattus (Rodentia)

SEYDEWITZ, H. H.; Dr. – Inst. für Genet., Univ. des Saarlandes, 66 SAARBRÜCKEN 11, B.R.D. (Germany)
a Relations between electrolyte milieu and gene activities in giant chromosomes; electrophysiology, especially ion sensitive electrodes. Chironomus thummi (Diptera)

SHERBET, G. V.; Ph.D. – Dept. of Biochem. Pathol., Univ. Coll. Hosp. Med. School, University St., LONDON WC1E 6JJ, England
a Morphogenetic effects of follicle-stimulating hormone. Gallus domesticus (Aves) (with M. S. LAKSHMI)
b Biochemical and biophysical characterization of the cell surface using natural pH gradients. (with M. S. LAKSHMI)
c Epigenetic mechanisms and paraneoplastic phenomena. (with M. S. LAKSHMI)

SHMUKLER, J. B. – Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.
a Role of serotonin in intercellular connections during cleavage divisions. Scaphechinus mirabilis (Echinoidea) (with G. A. BUZNIKOV)

SHORO, A. A.; Ph.D. – Dept. of Anat., St. Thomas's Hosp. Med. School, LONDON SE1 7EH, England

a Production of limb deformities and growth retardation in the fetus with neuromuscular blocking agents. Rattus norvegicus (Rodentia)
b Role of the amniotic fluid α fetoprotein in the prenatal diagnosis of neural tube defects. Homo sapiens (Primates)

SICHARULIDZE, Ms. T. A.; Cand.biol.sci. – Dept. of Anim. Embryol., Inst. of Zool., Acad. of Sci. of the Georgian SSR, 31 Chavchavadze Ave., TBILISI 380030, U.S.S.R.

SIDOROVA, Ms. V. F.; Dr.Biol. – Inst. of Human Morphol., Acad. of Med. Sci. of the USSR, Tsurupa St. 3, MOSCOW 117469, U.S.S.R.
a Growth and regeneration of the inner organs and their regulation. Oryctolagus cuniculus (Lagomorpha), Mus musculus, Rattus norvegicus, Mesocricetus auratus (Rodentia)

SIEBERS, A. M.; Drs. – Bot. Lab., State Univ., Nonnensteeg 3, LEIDEN, Netherlands

SIETSMA, J. H.: Dr. – Dept. of Developm. Plant Biol., State Univ. of Groningen, Biol. Ctr., Kerklaan 30, HAREN (Gr.), Netherlands
a Composition of the cell wall (chemical analysis, enzymatic degradation) in relation to development. Schizophyllum commune (Basidiomycetes, Fungi)
b Biochemistry of wall formation. Same species as a

SIEVERS, J.; Dr.med. – Abt. Neuroanat., Anat. Inst. der Univ., Martinistr. 52, 2000 HAMBURG 20, B.R.D. (Germany)
a Ultrastructure of brain and retina development. Rattus spec. (Rodentia)
b Development of monoamine containing neurons. Same species as a

SIEWING, R.; o.Prof. – I. Zool. Inst. der Univ. Erlangen-Nürnberg, Universitätsstr. 19, 852 ERLANGEN, B.R.D. (Germany)
a Development of body segmentation. (Brachiopoda, Phoronidea)
b Metamorphosis. Actinotrocha spec. (Phoronidea)

SIGNORET, J.; D.Sc., Prof. – Lab. d'Embryol., U.E.R. de Sci., Univ. de Caen, 14032 CAEN, France
a La cinétique cellulaire au cours de la segmentation; modalités, déterminisme, signification. Ambystoma mexicanum (Urodela)
b Study of nuclear differentiation and specific activities by means of nuclear transplantation. Same species as a

SIMKISS, K.; Ph.D., Prof. – Dept. of Zool., Univ. of Reading, READING RG6 2AJ, England
a Calcium pumps in the chorioallantoic membrane and their role in transporting ions from eggshell to embryo. Gallus domesticus (Aves)
b Electrolyte movements from chorion and from allantoic fluid to blood. Same species as a
c Lysosomal activity in extra-embryonic membranes. Same species as a

SIMOLA, Ms. L. K.; Prof. – Dept. of Bot., Univ. of Helsinki, Unionkatu 44, 00170 HELSINKI 17, Finland
a Effect of light and plant hormones on development. Sphagnum fimbriatum, S. majus (Musci)
b Effect of heavy metals, arsenate and fluoride on growth and fine structure. Sphagnum nemoreum, S.fimbriatum (Musci)

SIMPSON, Ms. P.; B.Sc. (Hons.) – Centre de Génét. Moléc., C.N.R.S., 91190 GIF-sur-YVETTE, France
a Temperature-sensitive mutations blocking clone development in imaginal discs, including t.s. cell lethals and mutations affecting the rate of cell division. Drosophila melanogaster (Diptera)

SINDEN, R. E.; Ph.D. – Dept. of Zool. and Appl. Entomol., Imperial Coll., Field Station, Silwood Park, ASCOT, Berks. SL5 7DE, England
a Cytology of gametogenesis and invasion mechanisms. Plasmodium spp. (Sporozoa)

SISTO DANEO, Ms. L. – Dept. of Human Anat., Univ. of Torino, Corso M.d'Azeglio 52, 10126 TORINO, Italy
a Early neuro-muscular contacts "in vivo" and "in vitro". Gallus domesticus (Aves)

SKOBLINA, M. N. – Inst. of Developm. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.
a Effect of gonadotropins and changes in the germinal vesicle and in the oocyte cytoplasm during maturation. (Acipenseridae, Chondrostei; Amphibia) (with T. B. AISENSTADT)
b Role of karyoplasm in the formation of the mature egg properties. Acipenser stellatus (Chondrostei), Misgurnus fossilis (Teleostei), Rana temporaria, Bufo spec. (Anura)
c Mechanism of action of gonadotropic hormones. Same species as b

ŠKREB, N.; M.D., D.Sc., Prof. – Inst. of Biol., Fac. of Med., Univ. of Zagreb, Šalata 3, P.O.Box 166, 41001 ZAGREB, Yugoslavia
a Early differentiation; transplantation, in vitro culture. Rattus norvegicus (Rodentia) (with B. LEVAK, L. HOFMAN, V. CRNEK and A. ŠVAJGER (Inst. of Histol. and Embryol.))
b Analysis of soluble proteins in organogenesis, and of foetal proteins in differentiation. Same species as a (with D. ŠERMAN)
c Differentiation of early postimplantation stages under the kidney capsule, teratocarcinogenesis, nature of embryonal carcinoma cells; transplantation, electron microscopy. Mus musculus, Rattus norvegicus (Rodentia) (with V. CRNEK)

SLABÝ, O.; D.Sc., Prof. – Inst. of Histol. and Embryol., Charles Univ., Karlovarská 48, 30167 PLZEŇ, Czechoslovakia
a Development of the nasal capsule from an evolutionary standpoint. (Amniota, incl. Homo sapiens)

SLÁDEČEK, F.; RNDr., D.Sc., Prof. – Dept. of Exp. Zool., Charles Univ., Viničná 7, 12844 PRAHA 2, Czechoslovakia
a Transplantation of nuclei in relation to nucleic acids and proteins. (Amphibia) (with J. NEDVÍDEK and A. ROMANOVSKÝ)

b Cell division in relation to cell determination. (Amphibia)

SLÍPKA, J.; Dr.Med., Dr.rer.nat., C.Sc. – Inst. of Histol. and Embryol., Charles Univ., Karlovarská 48, 30167 PLZEŇ, Czechoslovakia

a The development and teratology of the branchial region. (Amniota, incl. Homo sapiens)

ŚLIWA, L.; M.Sc. – Dept. of Biol. and Embryol., Med. Acad., ul.Kopernika 7, 31-034 KRAKÓW, Poland

a Neurohormonal control of regeneration. Triturus vulgaris, T. alpestris (Urodela)

SMART, I. H. M.; M.B., Ch.B. – Dept. of Anat., Med. Sci. Inst., Univ. of Dundee, Hawkhill, DUNDEE DD1 4HN, Scotland, U.K.

a Mapping of forebrain at different development stages. Mus musculus (Rodentia)

SMIRNOVA, Ms. E. I.; Cand.biol. – Chair of Embryol., Biol. Fac., State Univ. of Moscow, Lenin Hills, MOSCOW 117234, U.S.S.R.

a Influence of different agents on embryogenesis. (Mammalia)

SMITH, E. J. C.; Ph.D. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France

a Protein kinases in the developing kidney. Gallus gallus (Aves)

b Biochemistry of the differentiation of the autonomic nervous system. Gallus gallus, Coturnix c. japonica (Aves)

SMITH, Ms. G.; Ph.D. – Dept. of Pathol., Univ. of Bristol, University Walk, BRISTOL BS8 1TD, England

a Immunology of reproduction. Mus musculus (Rodentia), Homo sapiens (Primates)

b Biology of the trophoblast. Same species as a

c Early embryonic development. Mus musculus (Rodentia)

SMITH, J. L.; B.Sc. – Dept. of Zool., Univ. of Liverpool, Brownlow St., P.O.Box 147, LIVERPOOL L69 3BX, England

a Factors affecting aggregation of early embryonic cells (electron microscopy). Xenopus laevis (Anura)

SMYTH, J. D.; Sc.D., Prof. – Dept. of Zool. & Appl. Entomol., Imp. Coll. of Sci. & Technol., Prince Consort Rd., LONDON SW7 2BB, England

a In vitro differentiation. Echinococcus granulosus and other spp. (Cestoda)

SNOW, M. H. L.; Ph.D. – MRC Mammalian Devl. Unit, Univ. Coll. London, Wolfson House, 4 Stephenson Way, LONDON NW1 2HE, England

a Differentiation in preimplantation stages (1 to 150 cells) in vivo and in vitro. Mus musculus (Rodentia)

b Effects of heteroploidy, especially on embryonic development. Same species as a

c Differentiation of post-implantation stages, up to 8d gestation. Same species as a

d Chromosome behaviour in embryos up to 8d gestation. Same species as a

SOBIS, Ms. H.; M.D. – Rega Inst., Cath. Univ., Minderbroederstr. 10, 3000 LEUVEN, Belgium

a Teratomas induced by displacement of visceral yolk sac. Rattus spec., Mus musculus, Mesocricetus auratus (Rodentia)

b Yolk sac carcinoma and virus induced embryological carcinomas. Rattus spec. (Rodentia)

SOBOTKA, P.; M.D., CSc. – Inst. of Pathophysiol., Charles Univ., Lidická 1, 306 05 PLZEŇ, Czechoslovakia

a Influence of amino acids, newly synthesized drugs, and other substances on electrogenesis of the central nervous system during early postnatal development. Rattus norvegicus (Rodentia)

SOEKARJO, R.; Dr. – Limnol. Inst., Rijksstraatweg 6, NIEUWERSLUIS, Netherlands

SOLA, Ms. L. – Inst. of Histol. and Embryol., Univ. of Pisa, Via A.Volta 4, 56100 PISA, Italy

a Chromosomal aspects of sex inversion. (Sparidae, Teleostei)

SOLOGUB, Ms. A. A.; Cand.biol.sci. – Inst. of Devl. Biol., USSR Acad. of Sci., Vavilov St. 26, MOSCOW 117334, U.S.S.R.

a Stimulation of metaplasia of the pure pigmented epithelium of adults into retina by means of agents from newly differentiated retina. (Cyprinidae, Teleostei), Oryctolagus cuniculus (Lagomorpha), Mus musculus (Rodentia) (with G. V. LOPASHOV)

SOLOMON, J. B.; Ph.D., D.Sc. – Immunol. Unit, Dept. of Bacteriol., Univ. of Aberdeen, Foresterhill, ABERDEEN AB9 2ZD, Scotland, U.K.

a Onset of immunocompetence. Rattus norvegicus, Cavia porcellus (Rodentia)

b Immunological aspects of insulin therapy in diabetic pregnancies. Cavia porcellus (Rodentia), Homo sapiens (Primates)

SOLTYŃSKA, Ms. M.; Dr. – Dept. of Cytol., Zool. Inst., Warsaw Univ., Krak.Przedmieście 26/28, 00-927/1 WARSZAWA, Poland

a Cell differentiation in development. (Trematoda)

SOYEZ, D.; D.E.A. – Lab. Sex. et Reprod. des Invertébr., Univ. Paris VI (P. et M. Curie), Bât.A, 7e étage, 4 place Jussieu, 75230 PARIS Cedex 05, France

a Biochemical characterization of a molt-inhibiting substance from eyestalks. Pandalus jordani (Decapoda, Crustacea), Orchestia gammarellus (Amphipoda, Crustacea)

SPINELLI, G.; Prof. – Ist. di Anat. Comp., Univ. di Palermo, Via Archirafi 20, 90123 PALERMO, Italy

a Regulation of transcription of histone genes at different stages of development. Paracentrotus lividus (Echinoidea)

SPORNITZ, U. M. – Anat. Inst. der Univ., Pestalozzistr. 20, 4056 BASEL, Switzerland

a Oogenesis and early degeneration of eggs. (Amphibia)

b Development of liver and hepatic lymphoid tussue. Xenopus laevis (Anura)

SPREY, Th. E.; Dr. – Zool. Lab., Unit of Cell Biol. and Morphogen., State Univ., Kaiserstr. 63, LEIDEN, Netherlands

a Differentiation and development of imaginal discs: 1. histochemistry; 2. pattern formation. Calliphora erythrocephala, Drosophila melanogaster (Diptera)

SREBRO, Z.; M.D.; Ph.D., Prof. – Dept. of Biol. and Embryol., Acad. of Med., ul.Kopernika 7, 31-034 KRAKÓW, Poland

a Neurohormonal control of regeneration. Triturus vulgaris, T. alpestris (Urodela)

STABELLINI, Ms. G. – Inst. of Histol. and Gen.Embryol., Univ. of Ferrara, Via Fossato di Mortara 64, 44100 FERRARA, Italy

a Epithelio-mesenchymal interactions in lung and skin morphogenesis in vitro. Gallus domesticus (Aves)

STAGNI, Ms. A.; Dr., Prof. – Inst. of Zool., Univ. of Bologna, Via S.Giacomo 9, 40126 BOLOGNA, Italy

a Sex determination and sex differentiation. Chlorohydra viridissima (Hydroidea)

b Cytochemistry and electron microscopy of oogenesis and spermatogenesis. Same species as a

c Inhibition by antibiotics of steroid hormone-induced sex-reversal in tadpoles. Rana dalmatina (Anura)

d Electron microscopy of the relationship between neurosecretion and schizogenesis. Aeolosoma spec. (Oligochaeta)

STANGE, Ms. L.; Dr.rer.nat., Prof. – Arbgr. Pflanzenphysiol., Univ. Kassel, Heinrich-Plett-Str. 40, 35 KASSEL, B.R.D. (Germany)

STANIER, Ms. M. W.; D.Phil. – A.R.C. Inst. of Anim. Physiol., Brabaham, CAMBRIDGE CB2 4AT, England

a Factors influencing growth in the early postnatal period. Sus scrofa domesticus (Artiodactyla)

STANISSTREET, M.; Ph.D. – Dept. of Zool., Univ. of Liverpool, Brownlow St., P.O.Box 147, LIVERPOOL L69 3BX, England

a Biochemistry and morphology of abnormal and normal early development (lithium, electrophoresis, cell aggregation, protein synthesis, electron microscopy). Xenopus laevis (Anura)

STARK, E.; Prof. – Pathophysiol. Dept., Inst. of Exp. Med., Hung. Acad. of Sci., Szigony u. 43, BUDAPEST VIII, Hungary

a Morphological and functional development of endocrine organs, especially hypophysis and steroid-producing glands. Felis domestica (Carnivora), Homo sapiens (Primates)

b Possible influence of the hypothalamus on development of morphophysiology of the hypophysis. Same species as a

STARRE, H. van der; Drs.biol. – Dept. of Med. Anat. and Embryol., State Univ. of Utrecht, Janskerkhof 3A, UTRECHT, Netherlands

a Eye lens induction in vitro studied in chimaeric cultures. Gallus domesticus, Coturnix c. japonica, Anas platyrhynchos (Aves)

b Histochemistry and immunology of eye lens inductors. Gallus domesticus (Aves)

c Biosynthesis of soluble lens crystallin antigens before and after hatching (isoelectric focusing, autoradiography). Same species as b

d Synthesis of soluble proteins in the whole embryo and in the cultured eye cup (disc electrophoresis, isoelectric focusing, autoradiography). Same species as b (with P. Th. JANSSEN)

e Biosynthesis of soluble lens crystallins in early and late development (isoelectric focusing, autoradiography) Anas platyrhynchos (Aves) (with S. K. BRAHMA)

f Isoelectric focusing of some enzymes during lens development. Gallus domesticus, Anas platyrhynchos (Aves) (with S. K. BRAHMA)

ŠŤASTNÝ, F.; M.D. – Inst. of Physiol., Charles Univ., Albertov 5, 128 00 PRAHA 2, Czechoslovakia

a Morphological, biochemical, and functional maturation of the embryonic choroid plexus. Gallus domesticus (Aves)

b Studies on neurons and glial cells isolated from the embryonic cerebral hemispheres. Same species as a

STEBBINGS, H.; Ph.D. – Dept. of Biol. Sci., Univ. of Exeter, EXETER EX4 4QG, England

a Oogenesis, particularly in telotrophic ovaries. (Insecta)

STEELE, C. E.; Ph.D. – Dept. of Surg., Addenbrooke's Hosp., CAMBRIDGE, England

a Factors affecting embryonic development in vitro. Rattus spec. (Rodentia)

b In vitro models of allograft rejection. Sus scrofa domesticus (Artiodactyla)

c Fetal alcohol syndrome (in vitro techniques). Same species as a

STEENBERGEN, C. L. M.; Dr. – Limnol. Inst., Rijksstraatweg 6, NIEUWERSLUIS, Netherlands

STEFANELLI, A.; Dr., Prof.ord. – Ist. di Anat. Comp., Univ. di Roma, Via A.Borelli 50, 00161 ROMA, Italy

a Morphology of new synapses in vitro. Gallus domesticus (Aves)

b Cerebellar and olfactory synaptic systems in vitro. Same species as a

c Synaptic systems of Mauthner cells in vitro. Brachydanio rerio (Teleostei), Xenopus laevis (Anura)

STEGNER, H.-E.; Dr.med., Prof. – Univ.-Frauenklinik, Martinist. 52, 2 HAMBURG 20, B.R.D. (Germany)

a Ultrastructure of ovarian interstitial cells, fetal ovaries, and oocytes; oocyte culture in vitro. Cavia porcellus, Mus musculus (Rodentia), Oryctolagus cuniculus (Lagomorpha), Homo sapiens (Primates)

STEINER, E.; Dr.phil. – Zool.-Vergl. Anat. Inst., Univ. Zürich, Künstlergasse 16, 8006 ZÜRICH, Switzerland

a Cell lineage in imaginal discs. Drosophila melanogaster (Diptera)

b Transdetermination. Drosophila spp. (Diptera)

STEINERT, Ms. G.; Lic.Chem. – Dept. of Molec. Biol., Free Univ. of Brussels, 67 rue des Chevaux, 1640 RHODE-ST-GENÈSE, Belgium

a Egg maturation (electron microscopy, cytochemistry). Xenopus laevis (Anura)
b Presence of lysosomal enzymes in yolk platelets of developing eggs. Same species as a

STEINMETZ, H. – Inst. für Genet., Univ. des Saarlandes, 66 SAARBRÜCKEN 11, B.R.D. (Germany)
a Regulation of isoenzyme loci and lethal factors. Drosophila melanogaster (Diptera)

STENMAN, S. – Lab. of Exp. Embryol., III.Dept. of Pathol., Univ. of Helsinki, Haartmaninkatu 3, 00290 HELSINKI 29, Finland
a Cell surface antigen localisation in differentiation and malignancy of embryonic fibroblasts. Gallus domesticus (Aves) (with J. J. WARTIOVAARA and A. VAHERI)

STEPANOV, A. S. – Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.
a Regularities of the oocyte maturation process. (Acipenseridae, Chondrostei; Amphibia) (with T. A. DETTLAFF, E. V. CHULITZKAYA and P. E. FEULGENGAUER)

STÉPHAN, F.; D.Sc., Prof. – Lab. de Zool., Univ. de Nancy I, C.O.140, 54037 NANCY Cedex, France
a Morphogenesis of the embryonic axis. Gallus gallus (Aves)
b Postembryonic development of the integument. Calliphora spec. (Diptera)
c Role of nervous system in pharynx induction. (Turbellaria)

STÉPHAN (DUBOIS), Ms. F.; D.Sc. – Lab. de Zool., Univ. de Nancy I, C.O.140, 54037 NANCY Cedex, France
a Migration and differentiation of regeneration cells. (Tricladida, Turbellaria; Microdrila, Oligochaeta)

ŠTĚRBA, O. – Dept. of Morphol., Inst. of Vert. Zool., Czech. Acad. of Sci., Květná 8, 60365 BRNO, Czechoslovakia
a Prenatal growth and organogenesis in altricial (nidicolous) and precocial (nidifugous) species. (Insectivora; Rodentia; Carnivora; Artiodactyla)

STEVEN, D. H.; M.A., Vet.M.B. – Anat. School, Sub-Dept. of Vet. Anat., Univ. of Cambridge, Tennis Court Rd., CAMBRIDGE CB2 1QS, England
a Electron microscopy of placenta in relation to physiological exchange; control of parturition and maintenance of the fetal environment. Ovis aries (Artiodactyla), Equus caballus (Perissodactyla)
b Structure and function of binucleate cells in the placenta. Ovis aries (Artiodactyla)

STOCKER, R. F.; Ph.D. – Zool. Inst., Univ. Basel, Rheinsprung 9, 4051 BASEL, Switzerland
a Determination of the time at which connections are established between sensory axons from antennal disc and brain, especially the question whether axons from homeotic legs in mutant Antennapedia are guided to normal antennal projection centres by fibers present before the transformation of the disc into antennal-leg disc (ultrastructure, reconstructions). Drosophila melanogaster (Diptera)
b Experiments on the cause of the almost complete absence of muscles in homeotic legs of Antennapedia. Same species as a

STOLL, R.; D.Méd., D.Sc., Prof. – Lab. d'Histol. et d'Embryol., Univ. de Bordeaux II, 146 rue Leo-Saignat, 33076 BORDEAUX Cedex, France
a Differentiation of the genital tract. Gallus gallus (Aves)
b Physiology of the embryonic thyroid. Same species as a

STRAATEN, H. W. M. van; Drs. – Vet. Anat. and Embryol. Inst., State Univ. of Utrecht, Bekkerstraat 141, UTRECHT, Netherlands
a Testicular development from fetus till sexual maturity (histology, histochemistry): 1. normal development; 2. development in cryptorchidism; 3. testicular autotransplantation. Sus scrofa domesticus (Artiodactyla)

STRAUSS, F.; M.D., Prof. – 33 Eichenrain, 3122 KEHRSATZ, Switzerland
a Comparative implantation and placentation. (Prototheria; Eutheria, Mammalia)
b Comparative anatomy of the female reproductive system. Same species as a

STREET, H. E.; D.Sc., Prof. – Bot. Labs., Univ. of Leicester, Adrian Bldg., LEICESTER LE1 7RH, England
a Embryogenesis and organogenesis in tissue and cell cultures (biochemistry, histochemistry, electron microscopy). Daucus carota (Umbelliferae), Atropa belladonna, Nicotiana spp. (Solanacea)
b Cytodifferentiation and its hormonal control in vitro; induction of synthesis of secondary metabolites using mutant cell lines derived from haploid cells. Nicotiana spp., Atropa belladonna (Solanaceae), Acer pseudoplatanus (Aceraceae)
c Chloroplast differentiation and development of autotrophic growth in vitro. Spinacea oleracea (Chenopodiaceae)

STROEVA, Ms. O. G.; Dr.biol. – Koltzov's Lab. of Cell Differ., Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.
a Development and teratology of the iris and ciliary body in organ culture. Rattus norvegicus (Rodentia) (with L. V. AKHABADZE)
b Dependence of DNA synthesis and cell proliferation in pigment epithelium of the retina upon general growth factors of the eye. Same species as a (with I. G. PANOVA)
c Development of regional differences in neural retina and pigment epithelium (synthesis of RNA, electron microscopy). Acipenser stellatus, A. güldenstädti (Chondrostei) (with V. I. MITASHOV and E. A. BABURINA)

STROLENBERG, G. E. C. M. – Dept. of Zool., Cathol. Univ., Toernooiveld, NIJMEGEN, Netherlands
a Ultrastructure of neurosecretory system during development (Decapoda, Crustacea)

STRÖM, R.; Fil.lic. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden
a Larval development. (Bryozoa)

STRUDEL, G.; D.Sc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle

Gabrielle, 94130 NOGENT-sur-MARNE, France
a Développement et tératologie de la colonne vertébrale. Gallus gallus (Aves)
b Biochimie et ultrastructure du cartilage vertébral. Même espèce comme a
c Rôle inducteur de la chorde et du tube nerveux; chondrogenèse. Même espèce comme a
d Composition, origine et fonction du matériel extracellulaire périneural et périchordal. Même espèce comme a
e Biochimie, origine et fonction des amines biogènes chordales, régulation neurohumorales chez l'embryon. Même espèce comme a

STURDEE, A. P.; Ph.D. – Dept. of Biol. Studies, Lanckester Polytechnic, COVENTRY CV1 5FB, England
a Cell interactions during early embryonic limb development. Triturus cristatus, Ambystoma mexicanum (Urodela)
b Isolation and characterisation of chemicals responsible for the inhibition of growth and reproduction of organisms developing at high population densities. Tilapia mossambica, Poecilia reticulata (Teleostei), Xenopus laevis (Anura)

STURROCK, R. R.; M.B., Ch.B. – Dept. of Anat., Univ. of Dundee, DUNDEE DD1 4HN, Scotland, U.K.
a Histogenesis of neuroglia. Mus musculus (Rodentia)
b Quantitative studies of effects of minimum deprivation on brain growth. Same species as a

SUCH (RAZIMBAUD), Ms. J.; D.Sc. – Lab. de Zool. Exp., Univ. de Bordeaux I, Av. des Facultés, 33405 TALENCE, France
a Experiments on ommatidium morphogenesis in the embryo in vivo and in vitro. Carausius spec. (Phasmida)

ŠULCOVÁ, Ms. J.; RNDr. – Res. Inst. of Endocr., Národní 8, 116 94 PRAHA 1, Czechoslovakia
a Metabolism and binding of steroids, especially androgens, in foetal tissues. Homo sapiens (Primates)

SULSTON, J. E. – Lab. of Molec. Biol., Med. Res. Counc., Hills Rd., CAMBRIDGE CB2 2QH, England
a Cell lineage, especially of the nervous system. Caenorhabditis elegans (Nematoda)

SUMNER, Ms. B. E. H.; D.Phil. – Dept. of Physiol., Med. Sch., Univ. of Edinburgh, Teviot Place, EDINBURGH EH8 9AG, Scotland, U.K.
a Changes induced in the hypoglossal nucleus by axotomy and related operations of the hypoglossal nerve (quantitative ultrastructural and cytochemical study of neurone perikarya, dendrites, presynaptic boutons and nearby glia). Rattus spec. (Rodentia)

SURANI, M. A. H.; Ph.D. – Marshall Lab., Dept. of Physiol., Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3EG, England
a Molecular changes in cell surface properties from zygote to blastocyst and cellular differentiation during development: functional changes in membranes and transport systems; influence of and responsiveness to environmental conditions; parthenogenetic development; activation process of oocytes; post-implantation development including X-inactivation. Mus musculus, Rattus spec. (Rodentia)
b Implantation: role of uterine luminal components; cell surface interactions between blastocyst and uterine epithelium; differentiation of uterine stem cells in response to sex steroids; uterine sensitization for implantation. Mesocricetus auratus, Rattus spec., Mus musculus (Rodentia)

SUSO VERGARA, S. – Dept. of Anat., Univ. of Barcelona, C/.Casanova 143, BARCELONA 11, Spain
a Development of skeletal system and integument in the embryo. (Aves)

ŠVAJGER, A.; M.D., D.Sc., Prof. – Inst. of Histol. and Embryol., Fac. of Med., Univ. of Zagreb, Šalata 3, P.O.Box 166, 41001 ZAGREB, Yugoslavia
a Differentiation of isolated germ layers, transplantation, in vitro culture. Rattus norvegicus (Rodentia) (with B. LEVAK and N. ŠKREB, Inst. of Biol.)
b Chondrogenesis in the external ear. Same species as a (with Ž. BRADAMANTE and Lj. KOSTOVIĆ)
c Differentiation of the intercellular matrix during ontogenesis (histology, histochemistry, electron microscopy). Same species as a (with Lj. KOSTOVIĆ and Ž. BRADAMANTE)

ŠVEJCAR, J.; Dr.med., C.Sc., Prof. – Inst. für Humangenet. der Univ., Paul-Ehrlich Str. 41, 6 FRANKFURT/Main 70, B.R.D. (Germany)
a Effect of the teratogen 6-fluoro-deoxycytidine on acid mucopolysaccharide content of fetal stages. Mus musculus (Rodentia)

SVIRIDOV, S. M. – Lab. of Devl. Genet., Inst. of Cytol. and Genet., Pravda St. 9, ap.36, NOVOSIBIRSK 630090, U.S.S.R.
a Regeneration of the neural retina with special reference to S-100 protein. Triturus cristatus (Urodela) (with L. I. KOROCHKIN and V. I. MITASHOV, (Moscow))

SVYATOGOR, G. P. – Dept. of Embryol., Leningrad State Univ., Mendeleevsky St. 5, LENINGRAD 199164, U.S.S.R.
a Experimental polyembryony. Tilapia mossambica (Teleostei), Rana temporaria (Anura), Gallus gallus, Anser anser, Meleagris gallopavo, Coturnix c. japonica (Aves)

SWAAB, D. F.; Dr. – Netherl. Inst. for Brain Res., IJdijk 28, AMSTERDAM, Netherlands
a Interaction with hormones during maturation and adaptation of the nervous system. Rattus norvegicus (Rodentia), Homo sapiens (Primates)

SWAIN, A. H.; B.Sc. – Dept. of Anat., Charing Cross Hosp. Med. Sch., Fulham Palace Rd., LONDON W6 8RF, England
a Fetal gastric mucosa in organ culture. Homo sapiens (Primates)

SWANSON (EARTLY), Ms. H. H.; Ph.D. – Dept. of Anat., Med. School, Univ. of Birmingham, Edgbaston, BIRMINGHAM B15 2TJ, England
a Effects of gonadal hormones given shortly before or after birth and of sex hormones implanted in brain of new-born animals on sex-typical morphology, function, and behaviour. Mesocricetus auratus, Meriones unguiculatus (Rodentia)
b Mechanisms for fertility control (including intra-uterine absorptions) in confined colonies. Same species as a
SYMONS, D. B. A.; Ph.D. – A.R.C. Inst. of Anim. Physiol., Babraham, CAMBRIDGE CB2 4AT, England
a Ontogeny of foetal lymphoid structure and function. Sus scrofa, Ovis aries (Artiodactyla)
SYTINA, Ms. L. A.; Cand.biol.sci. – A. N. Severtzov Inst. of Evol. Morphol. and Ecol. of Animals, Acad. of Sci. of the USSR, Lening Ave.33, MOSCOW 117071, U.S.S.R.
SZASZOVSZKY, Ms. E. – Res. Inst. for Pharm. Chem., P.O.Box 82, 1325 BUDAPEST, Hungary
a Effect of clofibrate and other hypolipidemic agents on fetal development and mortality. Rattus norvegicus (Rodentia), Oryctolagus cuniculus (Lagomorpha)
SZÉKELY, G.; M.D. – Dept. of Anat., Univ. Med. School, 4012 DEBRECEN, Hungary
a Development of the spinal motor column in limbless and intact animals. Xenopus laevis (Anura)
SZOLLOSI, D.; Ph.D., Assoc.Prof. – Lab. de Physiol. Anim., Ctr. Natl. de Rech. Zootechn., I.N.R.A., 78350 JOUY-en-JOSAS, France
a Egg maturation in vitro, normal and hormone induced; aging of eggs; changes of the zona pellucida and of the micropyle following interaction with the spermatozoon. Salmo trutta, Esox lucius, Carassius auratus (Teleostei), Oryctolagus cuniculus (Lagomorpha; Rodentia), Bos taurus, Sus scrofa (Artiodactyla)
b Contribution of the male gamete to the embryo; activation of the male and female genomes (culture in defined media, electron microscopy, autoradiography, histo- and immunochemistry)
TADDEI, C.; Dr. – Ist. di Istol. ed Embriol., Univ. di Napoli, Via Mezzocannone 8, 80134 NAPOLI, Italy
TÄHKÄ, Ms. E. S.; B.Sc. – Lab. of Exp. Embryol., Dept. of Zool., Univ. of Helsinki, Arkadiankatu 7, 00100 HELSINKI 10, Finland
a Developmental potencies of Hensen's node. Gallus domesticus, Coturnix coturnix (Aves)
TAILLEMITE, J. L.; M.D. – Lab. d'Embryol. et de Cytogénét., Fac. de Méd. Saint-Antoine, 27 rue Chaligny, 75571 PARIS Cedex 12, France
a Tissue culture of fetal material in connection with the problem of sterility. Homo sapiens (Primates)
TAMARELLE (GARAUDY), Ms. M.; Dr.Univ. – Lab. de Zool. Exp., Univ. de Bordeaux I, Av. des Facultés, 33405 TALENCE, France
a Descriptive and experimental embryology (Collembola)
b Ultrastructure of germ line cell segregation. Same species as a
c Ultrastructural differentiation of the dorsal organ pattern. Same species as a
TARDENT, P.; Dr.phil., Prof. – Zool.-vergl. Anat. Inst., Univ. Zürich, Künstlergasse 16, 8006 ZÜRICH, Switzerland
TARIN, D.; M.D. – Dept. of Histopathol., Royal Postgrad. Med. School, Ducane Rd., LONDON W.12, England
a The mechanism of neural induction, especially the role of ecto- and mesodermal components and the nature of secondary nervous system induced by organiser transplants (histology, histochemistry, electron microscopy, time lapse cinematography). Xenopus laevis (Anura)
b Interactions between epithelial and connective tissues in tumour development, invasion and metastasis (histology, electron microscopy, transplantation). (Vertebrata)
TARKOWSKI, A. K.; Ph.D., D.Sc., Prof. – Dept. of Embryol., Zool. Inst., Univ. of Warsaw, Krak.Przedmieście 26/28, 00-927 WARSZAWA, Poland
a Preimplantation development in vivo and in vitro. Mus musculus (Rodentia)
b Chromosomal aberrations in embryogenesis. Same species as a
c Nucleo-cytoplasmic interactions during oogenesis and preimplantation development. Same species as a
TARONE, G.; Ph.D. – Cell and Molec. Biol. Lab., Dept. of Human Anat., Univ. of Torino, Corso M.d'Azeglio 52, 10126 TORINO, Italy
a Cell membrane differentiation; immunochemistry of surface macromolecules. Mus musculus (Rodentia)
b Membrane-mediated growth control in BHK cells. Mesocricetus auratus (Rodentia)
TARROUX, P. J. – Lab. de Zool., École Norm. Supérieure, 46 rue d'Ulm, 75230 PARIS Cedex 05, France
a Ribonucleic acid metabolism in development of wing imaginal discs. Pieris brassicae (Lepidoptera)
TAVERNE, M. A. M. – Inst. of Vet. Obstet., Artif. Insem., and Reprod., State Univ., Yalelaan 7, UTRECHT, Netherlands
a Cytology and morphology of the placenta, especially changes in the feto-maternal boundary during partus. Ovis aries, Sus scrofa domesticus (Artiodactyla)
TCHERNIAEV, G.; Cand.biol.sci. – A. N. Severtzov Inst. of Evol. Morphol. and Ecol. of Anim., Acad. of Sci. of the USSR, Lenin Ave.33, MOSCOW 117071, U.S.S.R.
a Embryology, phylogenesis of development and reproduction. many spp. (Cottidae; Comephoridae; Paracottidae; Cottocomephoridae), Coregonus spp., Thymallus spp. (Salmonidae, Teleostei)
b Viviparity. (Teleostei)
TEI, Ms. S.; Dr. – Ist. di Anat. Comp., Univ. di Perugia, Via A. Pascoli, 06100 PERUGIA, Italy
a Action of magnetic field on regeneration. Dugesia lugubris (Turbellaria)

b Histochemistry and ultrastructure of the cocoon. Branchiobdella pentodonta (Oligochaeta)

TEILLET, Ms. M. A. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France

a Migration and differentiation of neural crest cells studied in chimaeras; autonomic nervous system; differentiation of cholinergic and adrenergic neurons. Gallus gallus, Coturnix c. japonica (Aves)

TEJEDO MATEU, A. – Dept. of Anat., Univ. of Barcelona, C/.Casanova 143, BARCELONA 11, Spain

a Obstruction and recanalization of the embryonic ureter. Rattus rattus (Rodentia)

TEMPELAAR, M. J.; Drs. – Vakgroep Genetica, State Univ. of Groningen, Biol. Ctr., Vleugel A, Kerklaan 30, HAREN 8045, Netherlands

a Abnormal DNA-content in developing and adult stages carrying X-ray-induced chromosome aberrations (cytophotometry). Tetranychus urticae (Acari, Arachnida)

TENCER, Ms. R.; D.Sc. – Dept. of Molec. Biol., Free Univ. of Brussels, 67 rue des Chevaux, 1640 RHODE-ST-GENÈSE, Belgium

a Cell surface during early development. Xenopus laevis (Anura), Pleurodeles waltlii, Ambystoma mexicanum (Urodela)

TEPLITZ, Ms. N. A.; Cand.biol.sci. – Inst. of Developm. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.

a The role of neurotransmitters (acetylcholine, serotonin, catecholamines) in early embryogenesis. Strongylocentrotus dröbachiensis, S. nudus, S. intermedius, Paracentrotus lividus, Arbacia lixula, Sphaerechinus granularis (Echinoidea) (with G. A. BUZNIKOV)

TERMIER, M. – Lab. d'Entomol. et d'Ecophysiol. Exp., Univ. Paris XI (Paris-Sud), Bât.446, 91405 ORSAY, France

TERPIŁOWSKA, Ms. B.; Ph.D. – Inst. of Zool., Univ. of Wrocław, ul.Sienkiewicza 21, 50-335 WROCŁAW, Poland

a Early developmental stages. Acanthocyclops spec. (Copepoda)

TESCH, K. H. – Lehrst. für Exp. Morphol., Zool. Inst. der Univ., Weyertal 119, 5 KÖLN 41, B.R.D. (Germany)

a Development of the retina-lamina complex, especially nerve connections (development, regeneration); origin of glial elements (in vitro techniques, electron microscopy). Ephestia kuehniella (Lepidoptera)

b Genealogy of the ommatidium (transplantation, culture in vitro, electron microscopy). Same species as a

TESTA-BAPPENHEIM, I.; Dr.med.A.O., Prof. – Ist. e Lab. Antropol., Univ. di Camerino, Via Filippo Camerini 5, 62032 CAMERINO, Italy

a Experimental embryology. Triturus alpestris, T. taeniatus (Urodela)

b Developmental genetics and pathology. Homo sapiens (Primates)

c Teratogenesis and chromosomes. Same species as b

TEWARI, Ms. N.; M.Sc. – Inst. d'Histochim. Méd., Univ. Paris V (René Descartes), 45 rue des Sts.Pères, 75270 PARIS Cedex 06, France

a Fluor in developing teeth. Rattus spec. (Rodentia)

THEILER, K.; Dr., Prof. – Dept. of Anat., Histol., and Embryol., Univ. of Zürich, Gloriastr. 19, 8006 ZÜRICH, Switzerland

a Developmental genetics of the vertebral column and of the eye. Mus musculus (Rodentia)

THERWATH, A.; M.Sc. – Inst. de Rech. en Biol. Mol. du C.N.R.S., Univ. Paris VII, 2 place Jussieu (Tour 43), 75221 PARIS Cedex 05, France

a Abortive transcription of globin genes in erythroleukaemic cells. Gallus domesticus (Aves)

THESINGH, Ms. C. W.; M.D. – Lab. for Cell Biol. and Histol., State Univ., Rijnsburgerweg 10, LEIDEN, Netherlands

a Development and function of ultimobranchial body in organ culture. Gallus domesticus (Aves)

b Hormonal regulation of calcium metabolism and bone formation in embryos. Same species as a

c Origin and function of cysts in ultimobranchial body and parathyroid in embryo. Gallus domesticus, Coturnix c. japonica (Aves)

THESLEFF, I. – Dept. of Dent. Pathol. and Operat. Dent., Royal Dent. Coll., Vennelyst Bd., 8000 ÅRHUS C, Denmark

a Electron microscopy of tooth development in vitro. Mus musculus (Rodentia) (with O. FEJERSKOV and K. JOSEPHSEN)

THESLEFF (SAXÉN), Ms. I. P. N.; D.D.S. – Lab. of Exp. Embryol., III. Dept. of Pathol., Univ. of Helsinki, Haartmaninkatu 3, 00290 HELSINKI 29, Finland

a Drug-induced teratogenesis in vitro. Mus musculus (Rodentia)

b Tissue-interactions in tooth development. Same species as a

THÉVENET, Ms. A.; Dr.spéc. – Lab. de Zool. et Biol. Anim., Univ. Sci. et Méd. de Grenoble, B.P.53, Centre de Tri, 38041 GRENOBLE Cedex, France

a Epithelio-mesenchymal interaction and proliferation during cutaneous wound healing in the embryo. Gallus gallus (Aves)

THIERY, M.; M.D., Ph.D., Prof. – Dept. of Obstet. and Gynecol., Acad. Hosp., Univ. of Gent, DePintelaan 135, 9000 GENT, Belgium

a Intra-uterine hypoxia (determination of blood lactate/pyruvate balance and acid/base balance). Homo sapiens (Primates)

b Longitudinal study of twins and correlation with genotype as determined by placental membrane morphology, placental zymograms, and extensive bloodtyping. Same species as a

c Histochemistry of placenta. Same species as a

THIRIOT-HEBERT, Ms. M. – Lab. de Biol. de la Reprod., Univ. Paris VI (P. et M. Curie), Bât.A,

7e étage, 7 quai Saint-Bernard, 75230 PARIS Cedex 05, France
a Surface and vasculature of placenta

THIRIOT-QUIÉVREUX, Ms. C.; D.Sc. – Stat. Zool., Univ. de Paris VI, 06230 VILLEFRANCHE-sur-MER, France
a Anatomy and histology of planktonic larvae before and after metamorphosis; scanning electron microscopy of their shells. Mesogastropoda, Stenoglossa (Gastropoda)

THOMAS, C. – Dept. of Molec. Biol., Free Univ. of Brussels, 67 rue des Chevaux, 1640 RHODE-ST-GENÈSE, Belgium
a Regulation of ribosomal RNA synthesis in oocytes and eggs. Xenopus laevis (Anura)

THOMAS, D. B.; Prof. – Dept. of Anat., Univ. of St Andrews, St Salvator Coll., Bute Med. Bldgs., ST ANDREWS KY16 9TS, Fife, Scotland, U.K.

THOMSON, I. – Inst. of Anim. Genet., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JN, Scotland, U.K.
a Properties of lens mRNAs; regulation of stability. Gallus domesticus (Aves) (with R. M. CLAYTON, D. E. S. TRUMAN, J. JACKSON (Edinburgh), and R. WILLIAMSON (London)

THÖRIG, G. E. W.; Drs. – Dept. of Popul. and Evol. Biol., Genet. Inst., State Univ., Transitorium III, Padualaan 8, UTRECHT, Netherlands

THOROGOOD, P.; Ph.D. – Zool. Dept., Univ. of Oxford, South Parks Rd., OXFORD OX1 3PS, England
a Skeletal stem cells and the differentiation of skeletal tissues. Gallus domesticus (Aves)
b Ectopic chondrogenesis and osteogenesis. Rattus spp. (Rodentia)

THORS, F.; Drs. – Dept. of Anat. and Embryol., Cathol. Univ., Geert Grooteplein N.21, NIJMEGEN, Netherlands
a Development of the spinal cord. Xenopus laevis (Anura)

THOUVENY, Y. R.; Dr., Prof. – Lab. d'Histol. et de Morphogen. Anim., Dépt. de Biol., Centre Univ. de Marseille-Luminy, 70 route Léon Lachamp, 13288 MARSEILLE Cedex 2, France
a Biochemistry and cytochemistry of regeneration; molecular mechanisms taking place during dedifferentiation. Owenia fusiformis (Polychaeta)

THYLSTRUP, A.; Ph.D., Assoc.Prof. – Dept. of Dent. Pathol. and Operat. Dent., Royal Dent. Coll., Vennelyst Bd., 8000 ÅRHUS C, Denmark
a Development and mineralization of dental enamel from still-born infants (polarizing and light microscopy, microradiography, scanning and transmission E.M.). Homo sapiens (Primates)
b Experimentally disturbed tooth development (polarizing and light microscopy, microradiography, scanning and transmission E.M.). Rattus spec. (Rodentia), (Primates)

TICKLE, Ms. C. A.; Ph.D. – Dept. of Biol. as Appl. to Med., Middlesex Hosp. Med. School, Cleveland St., LONDON W1P 6DB, England
a Cellular interactions in limb morphogenesis, particularly the antero-posterior axis. Gallus domesticus (Aves)

TIEDEMANN, H.; Dr.med., Dr.rer.nat., Prof. – Inst. für Molec. Biol. und Biochem., Fachbereich I (Vorklinik), Freie Univ., Arnimallee 22, 1000 BERLIN 33, B.R.D. (Germany)
a Molecular mechanisms of determination. (Amphibia)
b Mechanism and organ specificity of transcription and translation (erythroblast, liver). Gallus gallus (Aves)

TIEDEMANN (WAECHTER), Ms. H.; Dr.rer.nat. – Inst. für Molec. Biol. und Biochem., Fachber.I (Vorklinik), Freie Univ., Arnimallee 22, 1000 BERLIN 33, B.R.D. (Germany)
a Mechanisms of primary induction. Triturus spec., Ambystoma spec. (Urodela)

TIMASHKEVICH, Ms. T. B.; Cand.med.sci. – Inst. of Human Morphol., Acad. of Med. Sci. of the USSR, Tsurupa St. 3, MOSCOW 117469, U.S.S.R.
a Regeneration and cell division in the stomach. Rattus norvegicus, Mus musculus (Rodentia)
b Quantitative evaluation of restoration of resected stomach. Same species as a

TIMMERMANS, Ms. L. P. M.; Ph.D. – Dept. of Exp. Anim. Morphol. and Cell Biol., Agric. Univ., "Zodiac", Marijkeweg, WAGENINGEN, Netherlands
a Origin of primordial germ cells ((immuno) histochemistry, autoradiography). Dentalium vulgare (Scaphopoda), Cyprinus carpio (Teleostei)

TOGNATO, G.; Dr. – Inst. of Zool., Univ. of Bologna, Via S. Giacomo 9, 40126 BOLOGNA, Italy
a Gonadogenesis and sex differentiation. Rana latastei, R. esculenta (Anura)
b Nervous system and neurosecretion in asexual reproduction, sexual differentiation and regeneration. Dugesia gonocephala, Polycelis nigra, Dendrocoelum lacteum (Turbellaria)

TOIVONEN, S. I.; Ph.D., M.D., Prof. (Emer.) – Lab. of Exp. Embryol., Dept. of Zool., Univ. of Helsinki, Arkadiankatu 7, 00100 HELSINKI 10, Finland
a The specific action of heterogeneous inductors. Triturus spec. (Urodela)
b The mechanism of primary induction. Same species as a
c Cell interaction. Same species as a

TOKIN, B. P.; Dr.biol., Prof. – Dept. of Embryol., Leningrad State Univ., Mendeleevsky St. 5, LENINGRAD 199164, U.S.S.R.
a Regeneration, asexual reproduction, and somatic embryogenesis. Dugesia tigrina (Turbellaria)
b Morphogenetic processes in starving animals. Same species as a

TONDURY, G.; Dr., Prof. – Dept. of Anat., Histol., and Embryol., Univ. of Zürich, Gloriastr. 19, 8006 ZÜRICH, Switzerland
a Action of different viruses on embryos, pathogenesis, and way of infection. Homo sapiens (Primates)
b Development of the lymphatic system. Same species as a
c Pre- and postnatal development of thymus and lymphatic organs of the "nude" mutant. Mus musculus (Rodentia)

TONEBY, M. I.; Fil.kand. – Astra Läkemedel AB, 151 85 SÖDERTÄLJE, Sweden
a Metabolism of tryptophane and 5-hydroxytryptamine (serotonin). Psammechinus miliaris, Strongylocentrotus droebachiensis, Paracentrotus lividus (Echinoidea)
b Embryological development of collagen. Same species as a
TONGE, C. H.; D.D.Sc., Prof. – Dept. of Oral Anat., Dental School, Northumberland Rd., NEWCASTLE upon Tyne NE1 8TA, England
a Tooth development and eruption.
b Effect of severe undernutrition on the development and growth of teeth and jaws (including rehabilitation). Sus scrofa (Artiodactyla)
c Protein calory deficiency and rehabilitation relative to the development and growth of teeth and jaws. Same species as b
TONNEYCK (MÜLLER), Ms. I. – Anat.-Embryol. Inst., Univ. of Amsterdam, Mauritskade 61, AMSTERDAM-O., Netherlands
a Experiments on skull morphogenesis. Gallus domesticus (Aves)
TÖRÖK, L. J.; Ph.D. – Dept. of Biol., Semmelweis Univ. of Med., P.O.B.95, 1450 BUDAPEST, Hungary
a Nucleo-histone changes during morphogenetic processes of regeneration. Dugesia lugubris (Turbellaria)
b Morphogenetic inhibition in development, regeneration, and asexual reproduction. Dugesia lugubris, D. tigrina (Turbellaria)
c Effects of hormones and hormone-like substances on metamorphosis. Rana arvalis (Anura)
TORRE, C. – Ist. di Anat. Umana Norm., Univ. di Torino, Corso M.d'Azeglio 52, 10126 TORINO, Italy
TORRÈS (WINTENBERGER), Ms. S.; D.Sc. – Lab. de Physiol. Anim., Ctr. Natl. de Rech. Zootechn., I.N.R.A., 78350 JOUY-en-JOSAS, France
a In vitro culture of blastocysts. Ovis aries, Bos taurus (Artiodactyla)
b Embryonic development and interrelations between embryo and corpus luteum. Same species as a
c Sexing of blastocysts. Bos taurus (Artiodactyla)
d Blastocyst implantation. Oryctolagus cuniculus (Lagomorpha)
TOSI, Ms. L.; Dr. – Stazione Zoologica, Villa Comunale, 80121 NAPOLI, Italy
a DNA methylation in embryos. Sphaerechinus granularis, Paracentrotus lividus (Echinoidea)
TOSICI, Ms. A.; Biol. – Dept. of Med. Biol., Med. School, P.23 August 1, 1900 TIMIŞOARA, Rumania
a Role of normal and experimentally induced necrosis in teratogenesis. Gallus domesticus (Aves)
b Cytogenetics. Homo sapiens (Primates)
TOUIR, A. – Lab. Sex. et Reprod. des Invertébr., Univ. Paris VI (P. et M. Curie), Bât.A, 7e étage, 4 place Jussieu, 75230 PARIS Cedex 05, France
a Control of sexual differentiation (endocrinology and physiology). Lysmata seticaudata, Leander serratus, Crangon crangon (Decapoda, Crustacea)
TRABUCHET, G.; Dr.3e cycle – Dépt. de Biol. Gén. et Appl., Univ. de Lyon I, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France
a Genetic factors in hemoglobin synthesis. Homo sapiens (Primates)
TRAUT, W.; Dr., Prof. – Abt. Biol., Arb.gr. Entw.physiol. der Tiere, Ruhr-Univ., 4630 BOCHUM, B.R.D. (Germany)
a Role and phases of activity of the W-chromosome in development. Ephestia kuehniella (Lepidoptera)
b Transcription of the chromosomes in oocytes. Same species as a
c Heterochromatinization of chromosomes in development. Various spp. (Insecta)
TREVISAN, P.; Dr.Biol. – Ist. di Anat. Comp., Univ. di Modena, Via Berengario 14, 41100 MODENA, Italy
a Experiments on differentiation of dorsal neurons of the spinal cord. Bufo bufo (Anura), Salamandra salamandra (Urodela)
TRNKOVÁ-ŠVECOVÁ, Ms. E.; RNDr. – Dept. of Anat., Charles Univ., U nemocnice 3, 12800 PRAHA 2, Czechoslovakia
a Development of the flexor muscles in the hand. (Mammalia)
TRUCKENBRODT, W.; Dr. – Fachber.5 Biol., Univ., Postfach 4469, 4500 OSNABRÜCK, B.R.D. (Germany)
a Effect of actinomycin D, cordycepin and other inhibitors of development on eggs. Odontotermes badius (Isoptera)
b Developmental stages of the different castes. Odontotermes stercorivorus (Isoptera)
TRUMAN, D. E. S.; Ph.D. – Inst. of Anim. Genet., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JN, Scotland, U.K.
a Properties of lens mRNAs; regulation of stability. Gallus domesticus (Aves) (with R. M. CLAYTON, I. THOMSON and J. F. JACKSON (Edinburgh), and R. WILLIAMSON (London)
b Synthesis, ontogeny, location, and immunochemistry of lens proteins in normal animals and mutants. Gallus domesticus (Aves), Mus musculus (Rodentia) (with R. M. CLAYTON, J. C. CAMPBELL, D. J. PRITCHARD (Edinburgh), and D. S. McDEVITT (Philadelphia)
TRUSLOVE, Ms. G. M.; Ph.D. – Dept. of Human Genet. and Biometry, Univ. Coll. London, Wolfson House, 4 Stephenson Way, LONDON NW1 2HE, England
a Developmental genetics of ocular and auditory disorders in mutants. Mus musculus (Rodentia)
TSCHADAJA, E. A. – Dept. of Anim. Embryol., Inst. of Zool., Acad. of Sci. of the Georgian SSR, 31 Chavchavadze Ave., TBILISI 380030, U.S.S.R.

TUCHMANN-DUPLESSIS, H.; Prof. – Lab. d'Embryol., U.E.R. Bioméd., 45 rue des Sts.Pères, 75270 PARIS Cedex 06, France
a Anencéphalie. Homo sapiens (Primates)
b Tératogenèse par sulfamides hypoglycémiants, antimétabolites. Rattus spec. (Rodentia) (avec L. MERCIER)
c Influence des hormones sur le développement foetal. Même espèce comme b
d Influence des alcaloides du Rauwolfia, de la réserpine et de la déserpidine sur le développement. Même espèce comme b (avec L. MERCIER)
e Influence des neuroleptiques sur la fertilité et le développement foetal. Rattus spec., Mus spec. (Rodentia), Oryctolagus cuniculus (Lagomorpha)
f Diabète expérimental et grossesse. (Mammalia)
g Influence des antimitotiques, des anticonvulsants et de la prostaglandine F2α sur la gestation. Même espèce comme e (avec L. MERCIER)
TUDDENHAM, E. G. D.; M.B., B.S., M.R.C.P. – Dept. of Haematol., Welsh Natl. Sch. of Med., Heath Park, CARDIFF, Wales, U.K.
TUDOSE, Ms. O.; Dr.med. – Dept. of Med. Biol., Med. School, P-ţa 23 August 1, 1900 TIMIŞOARA, Rumania
a Vascular development in the embryonic central nervous system. Gallus domesticus (Aves)
b Somatic chromosomal constitution of subjects with genetic defects. Homo sapiens (Primates)
c Genetic, developmental and hormonal aspects of gonadal dysgenesis and sex inversion. Same species as b
TUFT, P. H.; Ph.D. – Dept. of Zool., Univ. of Edinburgh, West Mains Rd., EDINBURGH EH9 3JT, Scotland, U.K.
TUMANISHVILI, G. D.; Dr., Prof. – Dept. of Developm. Biol., Inst. of Exp. Morphol., Acad. of Sci. of the Georgian SSR, Digomi, 380059 TBILISI, U.S.S.R.
a Role of chemical intercellular interactions in regulation of the rate of cell multiplication and intracellular synthesis studied in cell cultures and in vivo. Gallus domesticus (Aves), Rattus norvegicus, Mus musculus (Rodentia)
b Participation of intracelluiar substances in gastrulation. Misgurnus fossilis (Teleostei)
c Participation of nuclear and cytoplasmic substances in control of state of DNA in chromatin. Gallus domesticus (Aves), Rattus norvegicus (Rodentia)
TURAŁA-SZYBOWSKA, K.; Dr. – Dept. of Plant Cytol. and Embryol., Inst. of Bot., Jagellonian Univ., Grodzka St. 52, 31-044 KRAKÓW, Poland
a Embryology of a seed sterile population. Ranunculus penicillatus (Ranunculaceae)
b Endopolyploidy in the antipodals. Ranunculus penicillatus, R. peltatus (Ranunculaceae)
TURCHINI, J. P.; D.Méd., D.Sc., Prof. – Lab. d'Histol.-Embryol.-Cytogénét., Fac. de Méd., B.P.38, 63001 CLERMONT-FERRAND Cedex, France
a Neonatal liver. Mus musculus (Rodentia)
TURNER, D. C.; Ph.D. – Inst. of Cell Biol., Swiss Fed. Inst. of Technol., Hönggerberg, 8093 ZÜRICH, Switzerland
a In vitro myogenesis. Gallus domesticus (Aves), Rattus spec. (Rodentia)
b Control of cell proliferation. Gallus domesticus (Aves)
TURNER, S. C.; Ph.D. – Dept. of Biol. Sci., Portsmouth Polytechnik, Park Rd., PORTSMOUTH PO1 2DY, England
a Growth, differentiation and degeneration of larval tissue during metamorphosis. Xenopus laevis (Anura) (with H. FOX, London)
TVOROGOVA, Ms. A. G. – Dept. of Anim. Embryol., Inst. of Zool., Acad. of Sci. of the Georgian SSR, 31 Chavchavadze Ave., TBILISI 380030, U.S.S.R.
TYSZKIEWICZ, Mrs. K.; D.Sc. – Zool. Dept., Jagellonian Univ., ul.Krupnicza 50, KRAKÓW 2, Poland
a Embryogenesis of nervous system. Tetrodontophora bielanensis (Collembola)
UBBELS, Ms. G. A.; Ph.D. – Hubrecht Lab. (Intern. Embryol. Inst.), Uppsalalaan 8, 3584 CT UTRECHT, Netherlands
a Cytochemistry and electron microscopy of the origin of dorso-ventral polarity of the egg: 1. cytoplasm and pigment movements during grey crescent formation (with K. HARA and K. RZEHAK (Kraków)); 2. factors involved in cytoplasmic segregation; 3. possible role of neurotransmitters. Xenopus laevis, Discoglossus pictus (Anura)
b Establishment of bilateral symmetry in the uncleaved egg studied by transplantation of cytoplasm. Same species as a (with P. D. NIEUWKOOP)
ULLMANN, Ms. S. L.; Ph.D. – Dept. of Zool., Univ. of Glasgow, GLASGOW G12 8QC, Scotland, U.K.
a Polyovular follicles. Mus musculus (Rodentia)
b Oogenesis. Isoodon macrourus (Peramelidae), Trichosurus vulpecula (Phalangeridae), Sarcophilus harissii (Dasyuridae, Marsupialia)
URBANI, E.; Prof. – Ist. di Istol. ed Embriol., Univ. di Roma, Città Universitaria, 00185 ROMA, Italy
URSPRUNG, H.; Ph.D., Prof. – Swiss Fed. Inst. of Technol., 8092 ZÜRICH, Switzerland
no embryological work in progress
UYLINGS, H. B. M.; Dr. – Netherl. Inst. for Brain Res., IJdijk 28, AMSTERDAM, Netherlands
a Adaptability of the nervous system of adult organisms, compared with normal development. Rattus norvegicus (Rodentia), Homo sapiens (Primates)
VACEK, Z.; MUDr., D.Sc., Prof. – Inst. of Embryol., Charles Univ., Albertov 4, 128 00 PRAHA 2, Czechoslovakia
a Electron microscopy and histochemistry of the placenta (comparative studies on the submicroscopic structure, enzyme histochemistry and transport mechanism). Homo sapiens

(Primates), (Rodentia; Carnivora; Insectivora; Chiroptera)
b Role of primitive streak and tail region in early differentiation of the body (submicroscopic and cytochemical studies in normal and experimental conditions). Rana esculenta (Anura), Gallus domesticus (Aves), Rattus spec. (Rodentia)

VAGNETTI, Ms. D.; Dr. – Ist. di Anat. Comp., Univ. di Perugia, Via A.Pascoli, 06100 PERUGIA, Italy
a Ultrastructure of the cocoon. Dugesia lugubris (Turbellaria)
b Action of antiandrogens on the ultrastructure of male genital organs. Cavia porcellus (Rodentia)

VAHERI, A. – Lab. of Exp. Embryol., III.Dept. of Pathol., Univ. of Helsinki, Haartmaninkatu 3, 00290 HELSINKI 29, Finland
a Cell surface antigen localization in differentiation and malignancy of embryonic fibroblasts. Gallus domesticus (Aves) (with J. J. WARTIOVAARA and S. STENMAN)

VAHS, W.; Dr.phil., Prof. – Zool. Inst. der Univ., Weyertal 119, 5000 KÖLN 41, B.R.D. (Germany)
a Phase specific gene activities in the eyecup-lens-system of the developing embryo, as revealed by quantitative cytochemical DNA determinations. Salmo irideus (Teleostei), Triturus vulgaris (Urodela)
b Ultrastructure of embryonic cells undergoing induction and differentiation. Triturus vulgaris (Urodela)
c Amitosis in liver and other organs (polyploidization in embryos and larvae). (Amniota)
d Polyploidization and cell cycle. (Ciliata)

VAKAET, L. C. A.; M.D., Prof. – Lab. of Anat. and Embryol., State Univ. Ctr., Groenenborgerlaan 171, 2020 ANTWERPEN, Belgium
a Early development (scanning and transmission electron microscopy). Gallus domesticus, Coturnix c. japonica (Aves)
b In vitro culture of blastoderms, normal and after experimental interventions; histochemistry: enzymes and mucopolysaccharides. Same species as a

VAKHRUSHEVA, Ms. M. P.; Dr. – Inst. of Med. Genet., Kashirskoye Chaussee 6a, MOSCOW 115478, U.S.S.R.
a Genetic regulation of development of brain, eye, and limbs. Mus musculus (Rodentia)

VALKEMA-PORRENGA, Ms. F. C.; Drs. – Lab. for Cell Biol. and Histol., State Univ., Rijnsburgerweg 10, LEIDEN, Netherlands
a Development of bone and onset of mineralization in radii of 14-day embryos (electron microscopy). Mus musculus (Rodentia)

VAN GANSEN, Ms. P.; Prof. – Dept. of Molec. Biol., Free Univ. of Brussels, 67 rue des Chevaux, 1640 RHODE-ST-GENÈSE, Belgium
a Previtellogenic and vitellogenic oocytes.
b Nucleolar protein synthesis (high resolution autoradiography). Xenopus laevis (Anura)
c Ageing in primary culture of embryonic fibroblasts: ultrastructure, collagen synthesis, replication and transcription (transmission and scanning electron microscopy, autoradiography, thymidine and uridine incorporation, actinomycin fixation). Mus musculus (Rodentia)

VANNEREAU, Ms. A. – Lab. de Biol. Cell., Fac. de Pharm., Univ. Paris-Sud, 22 rue J. B. Clément, 92290 CHÂTENEY-MALABRY, France
a Gametogenesis, embryogenesis, formation of haustorium (ultrastructure). Plant. ginaceae

VANNINI, E.; Dr., Prof. – Inst. of Zool., Univ. of Bologna, Via S. Giacomo 9, 40126 BOLOGNA, Italy
a Experimental analysis of the development of the gonad and Bidder's organ. Bufo spec. (Anura)
b Inhibition by antibiotics of testosterone-induced sex-reversal in tadpoles. Rana dalmatina (Anura)
c General study of the problem of the "sex gradient" in various hermaphroditic animals. (Hydroidea; Tricladida, Turbellaria; Serpulidae, Polychaeta)
d Nervous system and neurosecretion in asexual reproduction, sexual differentiation and regeneration. Hydra spec., Chlorohydra viridissima (Hydroidea), Dugesia spec., Polycelis nigra, Dendrocoelum lacteum (Turbellaria)

VAN PRAET, M. – Lab. de Biol. des Invert. Marins et Malacol., Museum Natl. d'Hist. Nat., 57 rue Cuvier, 75005 PARIS, France
a Experimental morphogenesis and regeneration. Actinia equina (Actinozoa)

VAN ROELEN, C. – Lab. of Anat. and Embryol., State Univ. Ctr., Groenenborgerlaan 171, 2020 ANTWERPEN, Belgium
a Histochemistry and biochemistry of the carbohydrate-containing extracellular matrix of the blastoderm. (Aves)
b Concanavalin A-receptors during early development (histochemistry). (Aves)

VAN TOLEDO, B. – Dépt. d'Embryol. et Tératol. Exp., Inst. de Biol. Anim., Fac. des Sci., Univ. de Fribourg, 1700 FRIBOURG, Switzerland
a Teratogenic action of fluoride. Gallus gallus (Aves)

VARGA, A.; Dr., Ir. – Dept. of Plant Physiol., Agric. Univ., Arboretumlaan 4, WAGENINGEN, Netherlands

VASSALL ADAMS, P. R.; B.Sc. – Dept. of Anat., Charing Cross Hosp. Med. Sch., Fulham Palace Rd., LONDON W6 8RF, England
a Development of the conducting system in the heart. (Aves)

VASSE, J. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Hemopoiesis in the embryo. Emys orbicularis (Chelonia)
b Limb bud differentiation. (Chelonia)

VASSETZKY, S. G.; Cand.biol.sci. – Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.

a Meiosis and duration of meiotic phases. Mactra spec., Anodonta spec., Unio spec. (Lamellibranchia)
b History of meiosis research. (Animalia)

VEDDER, F. D.; Dr.rer.nat. – Zool. Inst. der Univ., Weyertal 119, 5000 KÖLN 41, B.R.D. (Germany)
a Protein metabolism during limb regeneration. Triturus vulgaris, T. alpestris (Urodela)

VEGT, G. B.; Drs. – Lab. for Cell Biol. and Histol., State Univ., Rijnsburgerweg 10, LEIDEN, Netherlands
a Cultivation of embryonic intestinal tissue. Rattus spec. (Rodentia)

VEINI (HARITOS), Ms. M.; M.Sc. – Zool. Lab., Univ. of Athens, Panepistimiopolis (Kouponia), ATHENS (621), Greece

VELA FERNÁNDEZ, J. A. – Dept. de Genét., Univ. de Barcelona, Av.José Antonio 585, BARCELONA-7, Spain
a Shell-gland induction (actinomycin-D treatment; electrofocussing of total protein). Physa acuta, Lymnaea auricularia (Gastropoda)
b Chorion-free embryo culture. Same species as a

VELTMAN, W. A. M.; Drs. – Netherl. Inst. for Brain Res., IJdijk 28, AMSTERDAM, Netherlands
a Adaptability of the nervous system of adult organisms, compared with normal development. Rattus norvegicus (Rodentia), Homo sapiens (Primates)

VERBICKY, M. Sh.; Cand.med.sci. – Inst. of Human Morphol., Acad. of Med. Sci. of the USSR, Tsurupa St. 3, MOSCOW 117469, U.S.S.R.

VERDIER, G. P. J.; Dr.spéc. – Dépt. de Biol. Gén. et Appl., Univ. de Lyon I, 43 Bd. du 11 Novembre 1918, 69621 VILLEURBANNE, France
a mRNA metabolism during development of chloroplast induced by illumination. Euglena gracilis (Euglenophyceae)

VERDONK, N. H.; Ph.D., Prof. – Zool. Lab., State Univ. of Utrecht, Transitorium III, Padualaan 8, UTRECHT, Netherlands
a Determination of bilateral symmetry in the head region. Lymnaea stagnalis (Gastropoda)
b Germinal localization in eggs. Various spp. (Mollusca)
c Cellular interactions in early development. Various spp. (Mollusca)

VERHOFSTAD, A. A. J.; Med.drs. – Dept. of Anat. and Embryol., Cathol. Univ., Geert Grooteplein N. 21, NIJMEGEN, Netherlands
a Differentiation of epinephrine- and nor-epinephrine-containing cells in the adrenal medulla (histochemistry). Mus rattus (Rodentia)

VERNA, J. M.; M.Sc. – Lab. de Zool. et Biol. Anim., Univ. Sci. et Méd. de Grenoble, B.P.53, Centre de Tri, 38041 GRENOBLE Cedex, France
a Morphological and experimental study of dermal mesenchyme innervation in the embryo from 5 days of incubation. Gallus gallus (Aves)
b Long-term culture in vitro of associations of embryonic skin and spinal ganglia. Gallus gallus, Anas platyrhynchos (Aves)

VETTERLEIN, Ms. M.; M.B. – Inst. für Krebsforsch., Univ. Wien, Borschkegasse 8a, Postfach 72, A-1090 WIEN, Austria
a Enzyme induction in embryonic and adult liver cells in vitro by steroid hormones. Rattus norvegicus (Rodentia)

VIELL, B.; Dr.rer.nat. – Inst. für Entw.physiol., Univ. zu Köln, Gyrhofstr. 17, 5 KÖLN 41, B.R.D. (Germany)
a Biochemical aspects of differentiation in the wing. Riella helicophylla (Hepaticae)
b Protein and amino acid metabolism during the first stages of regeneration. Same species as a

VIJVERBERG, A. J.; Dr. – Zool. Lab., Unit of Cell Biol. and Morphogen., State Univ., Kaiserstr. 63, LEIDEN, Netherlands
a Proliferation (mitoses) and DNA synthesis in imaginal discs (autoradiography). Calliphora erythrocephala (Diptera)
b Influence of ecdysterone and juvenile hormone on morphogenesis of imaginal discs. Same species as a

VILANOVA TRIAS, J. – Dept. of Anat., Univ. of Barcelona, C/.Casanova 143, BARCELONA 11, Spain
a Biochemical changes in cerebrospinal fluid during embryonic development. Gallus domesticus (Aves)
b Effect of androgens and antiandrogens on sexual differentiation. Rattus spec. (Rodentia)
c Secretion of antimüllerian factor in developing gonad (organ culture). Same species as b

VILJANTO, J.; M.D. – Dept. of Forensic Med., Univ. of Turku, Kiinamyllynkatu 10, 20520 TURKU 52, Finland
also: Dept. of Pediat., Div. of Surg., Centr. Hosp., Kiinamyllynkatu 4-8, 20520 TURKU 52, Finland
a Biological sequences in regeneration of subcutaneous connective tissue, using "Cellstic" method: cells in the exudate are harvested in cellulose sponge, inserted in silastic tubing (histology, histochemistry, biochemistry, immunofluorescence). Homo sapiens (Primates)

VILLA, Ms. L.; Dr.Sci. – Zool. Inst., Univ. of Palermo, Via Archirafi 18, 90123 PALERMO, Italy
a Ultrastructure of spermatogenesis, spermatozoa, and fertilization. Phallusia spec., Molgula impura, Ciona intestinalis (Ascidiacea)

VINCE, Ms. M. A.; B.A. – Psychol. Lab., Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3EB, England
a Responsiveness in the embryo. (Aves)
b Responsiveness in the foetus. Cavia porcellus (Rodentia)

VIRTANEN, I. – Lab. of Exp. Embryol., III. Dept. of Pathol., Univ. of Helsinki, Haartmaninkatu 3, 00290 HELSINKI 29, Finland
a Freeze-etching electron microscopy of ribosome-membrane association in liver cells. Rattus spec. (Rodentia) (with J. J. WARTIOVAARA)
b Differentiation of liver parenchyme cells in tissue culture. Same species as a
VITTORELLI, Ms. M. L.; Dr.Biol. – Ist. di Anat. Comp., Univ. di Palermo, Via Archirafi 20, 90123 PALERMO, Italy
a DNA synthesis in dissociated embryonic cells. Paracentrotus lividus (Echinoidea)
b Isolation of blastula cell membranes and detection of enzymatic activities. Same species as a
c Detection of cyclic AMP in embryos and in dissociated embryonic cells. Same species as a
VIZA, D.; M.D. – Lab. d'Immunobiol., Pathol. Gén. et Expér., Fac. de Méd. Pitié-Salpêtrière, 105 Bd. de l'Hôpital, 75634 PARIS Cedex 13, France
VOGEL, O.; Dr.rer.nat. – Biol. Inst. I. (Zool.) der Univ., Albertstr. 21a, 7800 FREIBURG, B.R.D. (Germany)
a Classical and biochemical aspects of pattern formation. Drosophila spec. (Diptera), Euscelis plebejus (Homoptera)
VOLLMAR, H.; Dr.rer.nat. – Biol. Inst. I (Zool.) der Univ., Albertstr. 21a, 78 FREIBURG, B.R.D. (Germany)
a Embryonic determination. Acheta domesticus (Orthoptera)
b Morphogenetic movements during early embryogenesis. Same species as a, and Aeschna cyanea (Odonata), Leptinotarsa decemlineata (Coleoptera), Rivulus milesi (Teleostei)
VOLLRATH, L.; Dr.med., o.Prof. – Anat. Inst. der Univ., Saarstr. 19-21, 6500 MAINZ, B.R.D. (Germany)
VOSSEN, J. G. H. M.; Drs. – Dept. of Genet., Cathol. Univ., Toernooiveld, NIJMEGEN, Netherlands
a Induction of puffing by injection of mitochondrial extracts into salivary gland cells. Drosophila hydei (Diptera)
VREEZEN, Ms. W. J.; Drs. – Genet. Lab., State Univ., Kaiserstr. 63, LEIDEN, Netherlands
a Selection on asymmetrical wing development. Drosophila melanogaster (Diptera)
VRIES, O. M. H. de; Dept. of Developm. Plant Biol., State Univ. of Groningen, Biol. Ctr., Kerklaan 30, HAREN (Gr.), Netherlands
a Genome activity during development. Schizophyllum commune (Basidiomycetes, Fungi)
VYAZOV, O. E.; Dr.med., Prof. – Lab. of Embryol., Inst. of Human Morphol., Acad. of Med. Sci. of the USSR, Tsurupa St. 3, MOSCOW 117469, U.S.S.R.
WABIK-ŚLIZ, Ms. B.; M.Sc. – Dept. of Genet. and Evolut., Inst. of Zool., Jagellonian Univ., Krupnicza 50, 30-060 KRAKÓW, Poland
a Ultrastructure of sperm and eggs from inbred and crossbred animals. Mus musculus (Rodentia)
WADA, S.; Dr.rer.nat. – Zool. Inst., Univ. Düsseldorf, Universitätsstr. 1, 4000 DÜSSELDORF 1, B.R.D. (Germany)
a Morphogenesis of the compound eyes. (Arthropoda)
WAGNER, E.; Dr.rer.nat. – Biol. Inst. II der Univ., Lehrst. für Bot., Schänzlestr. 1, 78 FREIBURG/Br., B.R.D. (Germany)
a Interaction of phytochrome and endogenous rhythms in photoperiodic control of growth and development. Chenopodium rubrum (Chenopodiaceae)
WAKELEY (DENT), Ms. J.; Ph.D. – Anat. Dept., Univ. of Leicester, Med. Sci. Bldg., University Rd., LEICESTER LE1 7RH, England
a Normal development and congenital defects in the lens. Gallus domesticus (Aves)
b Cell shape and movements in the embryo. Same species as a
WAKITA, M.; Dr.med. – Inst. für Anat.I, Ruhr-Univ., Geb.MA 5/162, Universitätsstr. 150, Postfach 102148, 4630 BOCHUM 1, B.R.D. (Germany)
a Cell differentiation of ameloblasts. (Teleostei), Mus musculus (Rodentia)
b Phylogenetic development of tooth enamel. (Vertebrata)
c Relations between replacement pattern in very early stages of tooth development and distribution of neural crest cells that initiate the teeth. (Amphibia)
WAL, U. P. v.d.; Ph.D. – Zool. Lab., State Univ. of Utrecht, Transitorium III, Padualaan 8, UTRECHT, Netherlands
a Electron microscopy of chemical transformation of yolk into membrane elements in degenerating yolk granules. Lymnaea stagnalis (Gastropoda)
b Electron microscopy of the synthesis of new cytoplasmic membrane elements during early cleavage. Same species as a
c Electron microscopy of segregated cytoplasmic elements. Same species as a
d Electron microscopy of cell contacts during cleavage. Same species as a
WALKER, D. G.; Ph.D., D.Sc., Prof. – Dept. of Biochem., Univ. of Birmingham, P.O.Box 363, BIRMINGHAM B15 2TT, England
a Enzyme development and metabolic regulation in fetus and neonate. Rattus spec. (Rodentia)
WALL, R.; B.Sc. – Dept. of Zool., Univ. of Liverpool, P.O.Box 147, LIVERPOOL L69 3BX, England
a Biochemistry of normal and abnormal early development (lithium, RNA synthesis, polysomes, induction). Xenopus laevis (Anura)
WALLACE, H.; Ph.D. – Dept. of Genet., Univ. of Birmingham, Edgbaston, P.O.Box 363, BIRMINGHAM B15 2TT, England
a Limb regeneration. Ambystoma spec. (Urodela)
b Sex determination. Pleurodeles waltl (Urodela)
WARTENBERG, H.; Dr.med., Prof. – Anat. Inst., Abt. für Exper. Biol., Univ. Bonn, Nussallee 10, 53 BONN, B.R.D. (Germany)
a Light and electron microscopy of male and female germ cells during pre- and postnatal develop-

ment. Acomys cahirinus dimidiatus, Mesocricetus auratus (Rodentia), Homo sapiens (Primates)

WARTIOVAARA, J. J.; M.D. – Lab. of Exp. Embryol., III. Dept. of Pathol., Univ. of Helsinki, Haartmaninkatu 3, 00290 HELSINKI 29, Finland

a Mechanism of kidney tubulogenesis. Mus musculus (Rodentia) (with L. O. SAXÉN, E. LEHTONEN, S. NORDLING, P. EKBLOM and J. SALONEN)

b Freeze-etching electron microscopy of ribosome–membrane association in liver cells. Rattus spec. (Rodentia) (with I. VIRTANEN)

c Cell surface antigen localization in differentiation and malignancy of embryonic fibroblasts. Gallus domesticus (Aves) (with A. VAHERI and S. STENMAN)

WATSON, A.; B.Sc. – Dept. of Genet., Univ. of Birmingham, Edgbaston, P.O.Box 363, BIRMINGHAM B15 2TT, England

a Developmental genetics of a mutant affecting limb growth and morphogenesis. Ambystoma mexicanum (Urodela)

b Limb regeneration. Same species as a

WATTS, G. T.; Ch.M. – Dept. of Surg., Queen Elizabeth Hosp., Edgbaston, BIRMINGHAM 15, England

WEAKLEY (SHAW), Ms. B.; Ph.D. – Dept. of Anat., Med. Sci. Inst., Univ. of Dundee, Hawkhill, DUNDEE DD1 4HN, Scotland, U.K.

a Cytochemistry and ultrastructure of developing germ cells. Mesocricetus auratus (Rodentia)

b Effects of different preparative procedures on ultrastructure of differentiating ovarian tissue. Same species as a

WEBB, F. T. G.; D.Phil. – Marshall Lab., Dept. of Physiol., Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3EG, England

a Control of growth and differentiation of the early embryo in vitro and in vivo. Mus musculus, Rattus spec. (Rodentia)

b Control of egg implantation. Same species as a

c Control of formation, growth and differentiation of follicles in the ovary. Same species as a, and Homo sapiens (Primates)

WEBER, R.; Ph.D., Prof. – Div. of Cell and Devl. Biol., Zool. Inst., Univ. of Bern, Sahlistr. 8, 3012 BERN, Switzerland

a Albumen synthesis during metamorphosis. Xenopus laevis (Anura) (with I. ABRAHAM)

b Hemoglobin transition in relation to metamorphosis. Same species as a

c Regulatory mechanism of estrogen-dependent synthesis of vitellogenin. Same species as a (with G. U. RYFFEL)

WEGENER, G.; Dr.rer.nat. – Inst. für Zool., Univ., Saarstr. 21, 6500 MAINZ, B.R.D. (Germany)

WEGMANN, R.; Dr.Méd., D.Sc., Prof. – Inst. d'Histochim. Méd., Univ. Paris V (René Descartes), 45 rue des Sts.Pères, 75270 PARIS Cedex 06, France
also: Dépt. d'Histoenzymol., Fac. Française de Méd. et Pharm., B.P.5076, BEIRUT, Lebanon

a Enzymology and metabolic pathways of morphogenesis. (Mammalia)

b Development of the ovary. (Mammalia)

WEGNEZ, M.; D.Sc. – Centre de Génét. Moléc. du CNRS, 91190 GIF-sur-YVETTE, France

a Mécanismes biochimiques de l'oogenèse. Xenopus laevis (Anura)

WEIDELI, H. J.; Dipl.Phil.II – Abt. Zellbiol., Biozentrum der Univ., Klingelbergstr. 70, 4056 BASEL, Switzerland

a Differentiation and determination; factors involved in embryonic development; mRNA synthesis in early stages. Drosophila melanogaster (Diptera)

WEISS, R. A.; B.Sc. – Imp. Canc. Res. Fund Labs., Lincoln's Inn Fields, LONDON WC2A 3PX, England

WELLENSIEK, S. J.; Dr., Ir., Prof. – Dept. of Horticult., Agric. Univ., Haagsteeg 3, P.O.Box 30, WAGENINGEN, Netherlands

a Effects of flower inducing factors (long day, vernalization, very high temperature, gibberellic acid) on the blocking in vegetative plants of different genotypes. Silene armeria (Caryophyllaceae)

WELLMANN, E.; Dr.rer.nat. – Biol. Inst. II der Univ., Lehrst. für Bot., Schänzlestr. 1, 78 FREIBURG/Br., B.R.D. (Germany)

a Light mediated differentiation in tissue cultures. (Umbelliferae)

WELSUM, R. A. van; M.D. – Anat.-Embryol. Inst., Univ. of Amsterdam, Mauritskade 61, AMSTERDAM-O., Netherlands

a Cytochemistry of developing neurons. Gallus domesticus (Aves)

WENDER, M. B.; M.D., Prof. – Inst. of Neurol. and Sensory Organs, Med. Acad., 49 Przybyszewskiego St., 60-335 POZNAŃ, Poland

a The chemical composition and enzyme activity of developing nervous tissue with special reference to the period of myelination. Laboratory animals, Homo sapiens (Mammalia)

b The influence of ionizing radiation on the developing nervous system. Oryctolagus cuniculus (Lagomorpha)

c Histoenzymatic architectonics of the developing nervous system. Rattus norvegicus (Rodentia)

WENIGER, J.-P.; Dr. – Lab. de Zool. et d'Embryol. Exp., Univ. Louis Pasteur, 12 rue de l'Université, 67000 STRASBOURG, France

a Chemical nature of the testicular hormone of the embryo: probably a protein. Gallus domesticus (Aves)

b The role of the hypophysis in hormonal activity of embryonic gonads. Gallus domesticus, Anas platyrhynchos (Aves), Mus musculus, Rattus spec. (Rodentia), Oryctolagus cuniculus (Lagomorpha)

WENSING, C. J. G.; D.V.M., Ph.D. – Vet. Anat. and Embryol. Inst., State Univ. of Utrecht, Bekkerstr. 141, UTRECHT, Netherlands

a Mechanism of testicular descent (histology, biochemistry, tissue culture). (Mammalia)
b Development of heart anomalies, especially hypoplasia of right and left heart. (Mammalia)

WENT, D. F.; Dr.sc.nat. – Dept. of Zool., Swiss Fed. Inst. of Technol., Universitätstr. 2, 8006 ZÜRICH, Switzerland
a Physiology of paedogenetic reproduction; sex determination; in vitro culture of ovaries; time-lapse cinematography. Heteropeza pygmaea (Diptera)
b Morphogenesis and regulation in the meroistic ovary: establishment of egg architecture and its relation to embryonic development (autoradiography, electron microscopy, culture in vitro, time-lapse cinematography). Same species as a

WESSELS, J. G. H.; Dr., Prof. – Dept. of Developm. Plant Biol., State Univ. of Groningen, Biol. Ctr., Kerklaan 30, HAREN (Gr.), Netherlands
a Biochemistry and ultrastructure of sexual morphogenesis, especially in relation to enzyme regulation. Schizophyllum commune (Basidiomycetes, Fungi)
b Biochemistry and ultrastructure of hyphae, synthesis and degradation of wall constituents. Same species as a

WESTIN, Ms. M.; Ph.D. – Dept. of Immunol., Wenner-Gren Inst. for Exp. Biol., Fack, 104 05 STOCKHOLM 50, Sweden
a Immunological study of individual embryonic proteins, their gene dependence, function, localization, and appearance in different developmental stages. Paracentrotus lividus (Echinoidea)

WEYCHERT, K.; Mgr.biol. – Dept. of Zool., Inst. of Biol., Univ. of N. Copernicus, Gagarina 9, 87-100 TORUŃ, Poland
a Regeneration of appendages in normal and experimentally changed conditions. Tegenaria atrica (Araneae, Arachnida)

WEYGOLDT, P.; Dr., Prof. – Biol. Inst. I (Zool.) der Univ., Albertstr. 21a, 78 FREIBURG, B.R.D. (Germany)
no work on developmental biology in progress

WHITE, Ms. J.; M.A. – Dept. of Developm. Biol., Marischal Coll., Univ. of Aberdeen, ABERDEEN AB9 1AS, Scotland, U.K.

WHITEAR, Ms. M.; Ph.D., D.Sc. – Dept. of Zool., Univ. Coll. London, Gower St., LONDON WC1E 6BT, England
a Morphological and experimental study on origin and development of Merkel cells and chemosensory cells in larval epidermis. Many spp. (Anura & Urodela) (with H. FOX)

WHITTINGHAM, D. G.; Ph.D. – MRC Mammal. Devl. Unit, Univ. Coll. London, Wolfson House, 4 Stephenson Way, LONDON NW1 2HE, England
a Factors involved in oocyte activation, e.g. role of Ca-ions; changes in electrical properties of the vitelline membrane; developmental potential of activated oocytes. Mus musculus (Rodentia)
b Effect of long-term storage at low temperatures and of background radiation on survival of preimplantation embryos; feasibility of storing unique mutant stocks at -196C. Mus musculus, Mesocricetus auratus, Rattus spec. (Rodentia), Oryctolagus cuniculus (Lagomorpha)

WIDE, Ms. M.; Fil.mag. – Inst. of Zool., Uppsala Univ., Box 561, 751 22 UPPSALA, Sweden
a Disturbances of blastocyst implantation by lead chloride in vivo and in vitro. Mus musculus (Rodentia)

WIGGLESWORTH, Sir V. B.; Dr., Prof. (Emer.) – Dept. of Zool., Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3EJ, England
no embryological work in progress

WIJK, R. van; Dr. – Dept. of Molec. Cell Biol., State Univ. of Utrecht, Padualaan 8, UTRECHT, Netherlands
a Factors affecting growth rate and length of cell cycle phases of normal hepatocytes and cultured hepatoma cells; role of cyclic nucleotides, enzymes and hormones (time lapse microcinematography, DNA photometry, autoradiography). Rattus spec. (Rodentia)
b Control of tyrosine aminotransferase synthesis in relation to differentiation of hepatocytes. Same species as a

WILCOX, M.; Ph.D. – Lab. of Molec. Biol., Med. Res. Council, Hills Rd., CAMBRIDGE CB2 2QH, England
a Imaginal disc development, especially formation of compartments and their maintenance during regeneration. Drosophila melanogaster (Diptera)
b Mechanisms underlying heterocyst spacing. Anabaena spec. (Cyanophyceae)

WILD, A. E.; Ph.D. – Dept. of Biol., Univ. of Southampton, SOUTHAMPTON SO9 5NH, England
a Protein transmission across foetal membranes. Oryctolagus cuniculus (Lagomorpha)

WILDE, A. G. de; M.D., Ph.D., Prof. – Dept. of Anat. and Embryol., State Univ. of Groningen, Oostersingel 69, GRONINGEN, Netherlands
a Development of computer programs for the reconstruction, by incremental plotter, of embryonic organ structure.
b Morphogenesis of the palatal and nose regions, studied by means of reconstructions. Mus musculus, Rattus norvegicus (Rodentia), Homo sapiens (Primates)

WILLEMSE, M. Th. M.; Ph.D., Prof. – Dept. of Bot., Agric. Univ., Arboretumlaan 4, WAGENINGEN, Netherlands
a Ultrastructural, histochemical, and comparative study of micro- and macrogametogenesis and fertilization. Vaucheria geminata (Xanthophyceae), Equisetum variegatum (Equisetophyta), Thuja occidentalis (Cupressaceae), Pinus sylvestris (Pinaceae)
b Ultrastructural and experimental study of the division and formation of mitochondria in the central and egg cell of the archegonium. Pinus sylvestris (Pinaceae)

WILLETTS, A.; Ph.D. – Dept. of Biol. Sci., Univ. of Exeter, Perry Rd., EXETER EX4 4QG, England
a Biochemical and cytological changes associated with the transition yeast-mycelial form, especially

molecular control mechanisms involved. Aureobasidium pullulans (Fungi)

WILLIAMSON, D. I.; Ph.D., D.Sc. – Dept. of Marine Biol., Univ. of Liverpool, PORT ERIN, Isle of Man, U.K.

a Laboratory rearing of larval stages; moulting, feeding, number of stages. Palinurus elephas, Nephrops norvegicus (Decapoda, Crustacea)

b Hatching rhythms. (Decapoda, Crustacea)

WILLIAMSON, R. – LONDON, England (further address unknown)

a Properties of lens mRNAs; regulation of stability. Gallus domesticus (Aves) (with R. M. CLAYTON, D. E. S. TRUMAN, J. F. JACKSON and I. THOMSON, Edinburgh)

WILSON, I. B.; Ph.D. – Dept. of Zool., Univ. Coll. of North Wales, BANGOR, Caerns., Wales, U.K.

a Establishment of implantation and early pregnancy. Mus musculus (Rodentia)

b Experimental developmental morphology. Same species as a

c Morphology and endocrinology of viviparity. Chalcides ocellatus, C. sepoides (Lacertilia)

WINKLER, I.; Dipl.Biol. – Inst. für Pflanzenkrankh. und Pflanzenschutz, Techn. Univ., Herrenhäuser Str. 2, 3 HANNOVER-Herrenhausen, B.R.D. (Germany)

a Biochemistry of caste determination and oviposition. Formica polyctena, F. rufei (Hymenoptera)

WINTER, G. – I. Zool. Inst. der Univ. Erlangen-Nürnberg, Universitätsstr. 19, 852 ERLANGEN, B.R.D. (Germany)

a Comparative embryology. Pycnogonum spec., Ammothea spec., Phoxichilium spec., Callipallene spec. (Pantopoda)

WISE (WYLES), Ms. C.; Ph.D. – Zool. Dept., Univ. Coll., Belfield, Stillorgan Rd., DUBLIN 4, Ireland

a Development of retinal photoreceptors: 1. under different light conditions; 2. ultrastructure. Poecilia reticulata (Teleostei)

WISHART, G. J.; Ph.D. – Biochem. Dept., Med. Sci. Inst., Univ. of Dundee, DUNDEE DD1 4HN, Scotland, U.K.

a Regulation, mainly hormonal, of hepatic "detoxicating" enzymes during foetal and perinatal period. Gallus gallus (Aves), (Rodentia), Homo sapiens (Primates)

b Developmental endocrinology. (Mammalia)

WITHERS, L.; Dr. – Bot. Labs., Univ. of Leicester, Adrian Bldg., LEICESTER LE1 7RH, England

a Freezing preservation of embryos developing in cell cultures; freezing injury (electron microscopy)

WITKOWSKA, Ms. A.; Ph.D. – Dept. of Embryol., Zool. Inst., Univ. of Warsaw, Krakowskie Przedmieście 26/28, 00-927 WARSZAWA, Poland

a Preimplantation development in vivo and in vitro. Mus musculus (Rodentia)

b Chromosomal aberrations in embryogenesis. Same species as a

WOELLWARTH, C. von; Dr.phil. – Münchingerstr. 5, 7257 DITZINGEN, B.R.D. (Germany)

a Autonome Musterbildung in der Medullarplatte. Triturus alpestris (Urodela)

b Determination der Kopforgane. Same species as a

c Entstehung von Situs inversus durch Defekte und verschiedene äussere Einflüsse. Same species as a

WOERDEMAN, M. W.; M.D., Prof. (Emer.) – Anat.-Embryol. Inst., Univ. of Amsterdam, Mauritskade 61, AMSTERDAM-O., Netherlands

a Lens development. (Aves; Mammalia)

WOLBERT, P.; Dr.rer.nat. – Zool. Inst. (I) der Univ., Röntgenring 10, 87 WÜRZBURG, B.R.D. (Germany)

WOLF, R.; Dr. – Zool. Inst. (I) der Univ., Röntgenring 10, 87 WÜRZBURG, B.R.D. (Germany)

WOLF, U.; Dr., Prof. – Inst. für Humangenet. und Anthropol. der Univ., Albertstr. 11, 7800 FREIBURG, B.R.D. (Germany)

a Sex determination and differentiation. (Mammalia)

WOLFF (HENNIG), Ms. Em.; D.Sc. – Inst. d'Embryol., Coll. de France, 11 place M. Berthelot, 75 PARIS Ve, France

a Organ culture of cancer tumors taken directly from the patient: growth factors for long term culture; culture on yeast and liver dialysates; fractionation of dialysates of liver extracts. Homo sapiens (Primates)

WOLFF, Et. C.; D.Sc., Prof. – Inst. d'Embryol., Coll. de France, 11 place M. Berthelot, 75 PARIS 5e, France

a Culture in vitro de longue durée de tumeurs malignes en présence et en l'absence d'organes embryonnaires. Homo sapiens (Primates) (avec Em. WOLFF)

b La différenciation et l'intersexualité in vitro et in vivo des gonades embryonnaires par les méthodes des antihormones et des anticorps. (Aves)

WOLPERT, L.; Ph.D., Prof. – Dept. of Biol. as Appl. to Med., Middlesex Hosp. Med. Sch., LONDON W1P 6DB, England

a Cellular basis of morphogenesis and pattern formation in limb development. Gallus domesticus (Aves)

WOLTZ, P.; Dr.spéc. – Lab. de Morphogen. Végét., Univ. d'Aix-Marseille III, Fac. St-Jérôme, rue Henri Poincaré, 13397 MARSEILLE Cedex 4, France

a Morphogenesis of composite leaves: 1. correlations between the different leaf parts; 2. regeneration following various primordium lesions. Gleditsia triacanthos (Leguminosae)

WOOD, D. A. W.; Ph.D. – Microbiol. Dept., Glasshouse Crops Res. Inst., Rustington, LITTLEHAMPTON, BN16 3PU, England

a Fruiting body initiation and development: 1. role of self-inhibitory compounds; 2. factors controlling initiation in axenic culture (pH, temperature, CO_2, nutrient limitation); 3. effect of metabolic inhibitors, including fungicides, on morphogenesis; 4. nutrient requirements and development of a defined medium for fruiting. Agaricus bisporus (Fungi)

b Changes in activity of extracellular enzymes during development, particularly oxidases and cellulases. Same species as a

WOOLLAM, D. H. M.; M.D., Sc.D., F.R.C.P. – Anat. School, Univ. of Cambridge, Downing St., CAMBRIDGE CB2 3DY, England

a Mechanics and treatment of hydrocephalus. Oryctolagus cuniculus (Lagomorpha), Homo sapiens (Primates)

b Investigation on reasons for malfunction of Opitz-Halter valva. Same species as a

WOYKE, J.; Dr.habil., Prof. – Bee Div., Agric. Univ., 02-766 WARSZAWA 13, Ursynów, Poland

a Developmental genetics; sex determination and development of diploid drones. Apis mellifera (Hymenoptera)

b Development of reproductive organs and spermatogenesis of diploid drones (larval and pupal stage). Same species as a

c Polyploidization of tissues during development of haploid and diploid drones and of queens and workers. Same species as a

d Developmental genetics. Apis cerana (Hymenoptera)

e Comparative study of embryonic development and hatching. Apis florea, A. cerana indica, A. dorsata (Hymenoptera)

WRBA, H.; Dr.med., Dr.rer.nat., Prof. – Inst. für Krebsforsch., Univ. Wien, Borschkegasse 8a, Postfach 72, 1090 WIEN, Austria

a Stoffwechsel in vitro. (Rodentia)

b Eihautbildung, Differenzierung und Missbildung in vitro. (Rodentia)

c Heterotransplantation. (Rodentia)

d Diaplacentare Carcinogenese. (Rodentia)

WRÓBLEWSKI, R.; Dr.med., Prof. – Dept. of Gen. Biol., Inst. of Biol. and Morphol., Silesian Acad. of Med., ul.K.Marksa 19, 41-808 ZABRZE, Poland

a Regeneration of transplantated thyroid gland, especially role of C-cells. Cavia porcellus (Rodentia)

WUHRMANN, P.; Dr.chem. – Inst. of Cell Biol., Swiss Fed. Inst. of Technol., Hönggerberg, 8093 ZÜRICH, Switzerland

a Ion determination. (Chironomidae, Diptera)

WURSTER, B.; Dr.rer.nat. – Abt. Zellbiol., Biozentrum der Univ., Klingelbergstr. 70, 4056 BASEL, Switzerland

a Stimulation of cell development by chemical signals; chemotaxis, oscillations. Dictyostelium discoideum, Polysphondylium violaceum (Acrasiales)

WYLIE, C. C.; Ph.D. – Dept. of Struct. Biol., St. George Hosp. Med. Sch. Blackshaw Rd., Tooting, LONDON SW17 0QT, England

a RNA and DNA metabolism during oogenesis and in early embryos. Gallus domesticus (Aves)

b Differentiation of primordial germ cells. Xenopus laevis (Anura)

c Genes for rRNA in oocyte and embryo. Same species as a

WYSS, Ch.; Ph.D. – Inst. of Cell Biol., Swiss Fed. Inst. of Technol., Hönggerberg, 8093 ZÜRICH, Switzerland

a Somatic cell genetics. Drosophila spec. (Diptera)

WYSS, U. R.; Dr. – Inst. für Pflanzenkrankh. und Pflanzenschutz, Techn. Univ., Herrenhäuser Str. 2, 3 HANNOVER-Herrenhausen, B.R.D. (Germany)

a Film analysis of embryonic development, especially cleavage pattern and hatching behaviour. Trichodorus similis, Longidorus elongatus (Nematoda)

YACOB, A. Y.; M.Sc. – Unit Devl. Biol., Dept. of Zool., Univ. Coll., Belfield, Stillorgan Rd., DUBLIN 4, Ireland

a Development of the pseudobranch (electron microscopy, histochemistry). Poecilia reticulata (Teleostei)

YAMADA, T.; D.Sc., Prof. – Unité de Biol. du Dévél., Inst. Suisse de Rech. Exp. sur le Cancer, ch.Boveresses, 1066 EPALINGES, Switzerland

a Factors controlling dedifferentiation and redifferentiation of cultured iris epithelial cells, studied by cell injection combined with immunofluorescence for gamma crystallin. Notophthalmus viridescens (Urodela) (with S. P. MODAK)

b Ultrastructural cytochemistry of cell surface alterations associated with dedifferentiation and redifferentiation of iris epithelial cells. Same species as a

c Cell cycle in conversion of iris epithelium cell type in culture. Same species as a

d Control of cell type by micro-injection of non-histone nuclear proteins into dedifferentiated iris epithelial cells in culture. Same species as a

YOUNG, B. A.; M.D., Ph.D. – Dept. of Anat., Med. Biol. Ctr., Queen's Univ., BELFAST BT9 7BL, N.Ireland, U.K.

a Electron microscopy of developing thyroid and pituitary. Cervus spec. (Artiodactyla), Cavia porcellus (Rodentia), Oryctolagus cuniculus (Lagomorpha)

b Organ culture of the pituitary. Rattus spec. (Rodentia), Oryctolagus cuniculus (Lagomorpha)

ZAAYER, Ms. J. J. P.; Ph.D. – Lab. for Cell Biol. and Histol., State Univ., c/o Acad. Hosp., Rijnsburgerweg 10, LEIDEN, Netherlands

a Hormonal activity of fetal gonads and adrenal glands with regard to the development of the reproductive tract (organ culture). Cavia porcellus (Rodentia), Homo sapiens (Primates)

ZABORSKI, P. – Lab. d'Embryol. Exp., Ctr. de Rech. du CNRS, 67 rue Maurice Günsbourg, 94200 IVRY sur SEINE, France

a Cytogénétique et immunologie de la différenciation sexuelle des gonades. Pelodytes punctatus (Anura), Pleurodeles waltl (Urodela)

ZACCANTI, F.; Dr., Prof. – Inst. of Zool., Univ. of Bologna, Via S. Giacomo 9, 40126 BOLONGA, Italy
a Hormonic regulation of ovarian and Bidder's organ oogenesis. Bufo bufo (Anura)
b Effect of steroids on sex differentiation (autoradiography). Rana dalmatina, R. latastei, R. esculenta, Bufo bufo (Anura)

ZACCHEI, Ms. A. M. – Ist. di Anat. Comp., Univ. di Roma, Via A. Borelli 50, 00161 ROMA, Italy
a Retinal and neural structures in vitro. Gallus domesticus (Aves), Mus musculus (Rodentia)
b In vitro studies of relations between nervous and muscle cells

ZACCONE, G.; Dr., Prof. – Inst. of Zool. and Comp. Anat., Univ. of Messina, Via dei Verdi 75, 98100 MESSINA, Italy
a Histochemical distribution of the enzymes of carbohydrate metabolism in the Golgi zones of yolk globules. Aplysia depilans (Gastropoda)

ZAFIRATOS, C.; Dr.Sci. – Lab. of Zool., Univ. of Athens, Panepistimiopolis (Kouponia), 621 ATHENS, Greece

ZÁHLAVA, J.; MUDr., CSc. – Inst. of Pathophysiol., Charles Univ., Lidická 1, 306 05 PLZEŇ, Czechoslovakia
a Developmental changes in the connections between medial geniculate body and homo- or contralateral cortical auditory areas in the gyrus ectosylvius anterior and medius. Canis familiaris (Carnivora)
b The different influences of GABA (γ-aminobutyric acid) and some convulsants on the cortical auditory responses evoked by acoustic or by electrical stimulation of subcortical structures during postnatal development. Same species as a

ZAITZEV, A. V.; Cand.biol.sci. – A. N. Severtzov Inst. of Evol. Morphol. and Ecol. of Animals, Acad. of Sci. of the USSR, Lenin Ave. 33, MOSCOW 117071, U.S.S.R.
a Specificity of spermatogenesis and oogenesis. Esox lucius (Teleostei)
b Spermatogenesis and oogenesis in different temperature, ecological, and seasonal conditions. various spp. (Teleostei)

ZANTINGE, A.; Drs. – Dept. of Developm. Plant Biol., State Univ. of Groningen, Biol. Ctr., Kerklaan 30, HAREN (Gr.), Netherlands
a Genome activity during development. Schizophyllum commune (Basidiomycetes, Fungi)

ZEILMAKER, G. H.; Ph.D. – Dept. of Endocrinol., Growth, and Reprod., Erasmus Univ., P.O.B.1738, ROTTERDAM, Netherlands
a Egg transplantation. Mus musculus (Rodentia))
b Development of ectopic trophoblast. Rattus norvegicus, Mus musculus (Rodentia)
c Energy requirements and fertility of matured oocyte. Same species as a
d Deep-frozen preservation of embryos and subsequent development. Same species as a
e Maturation and fertilization of oocytes in vitro. Homo sapiens (Primates)

ZENZES, Ms. M. T.; Dr. – Inst. für Humangenet. und Anthropol. der Univ., Albertstr. 11, 7800 FREIBURG, B.R.D. (Germany)
a Sex determination and differentiation. (Mammalia)

ZERBIB, C. – Lab. Sex. et Reprod. des Invertébr., Univ. Paris VI (P. et M. Curie), Bât.A, 7e étage, 4 place Jussieu, 75230 PARIS Cedex 05, France
a Oogenesis, vitellogenesis and fertilization. Orchestia gammarellus (Amphipoda, Crustacea)

ZILCH, R. – 1.Zool. Inst. der Univ. Erlangen-Nürnberg, Universitätsstr. 19, 852 ERLANGEN, B.R.D. (Germany)
a Comparative embryology. Diastylis rathkei (Cumacea), Penaeus trisulcatus, Atyaephyra desmaresti (Decapoda) and other Malacostraca (Crustacea)

ZILLER (SENGEL), Ms. C.; D.Sc. – Inst. d'Embryol. du C.N.R.S. et du Coll. de France, 49bis av. de la Belle Gabrielle, 94130 NOGENT-sur-MARNE, France
a Development of neural crest cells (cell and tissue culture). Gallus gallus, Coturnix c. japonica (Aves)

ZISSLER, D.; Dr.rer.nat. – Biol. Inst. I (Zool.) der Univ., Albertstr. 21a, 78 FREIBURG, B.R.D. (Germany)
a Ultrastructure of normal and UV-irradiated eggs and embryos. Smittia spec. (Chironomidae, Diptera)

ŽIVKOVIĆ, Ms. N.; B.C. – Lab. of Molec. Biol. and Endocrinol., Inst. of Nucl. Sci. "Boris Kidrič", P.O.Box 522, 11001 BEOGRAD, Yugoslavia

ŽNIDARIĆ (ĆONĆ), Ms. D.; Dr.biol. – Dept. of Zool., Univ. of Zagreb, Rooseveltov trg 6, 41000 ZAGREB, Yugoslavia

ZONNEVELD, B. J. M.; Drs. – Dept. of Genet., Univ. of Leiden, Kaiserstr. 63, LEIDEN, Netherlands
a Developmental genetics of the fruiting bodies. Aspergillus nidulans (Ascomycetes)

ZOTIN, A. I.; Dr.Biol., Prof. – Lab. of Devl. Biophys., Inst. of Devl. Biol., Acad. of Sci. of the USSR, Vavilov St. 26, MOSCOW 117334, U.S.S.R.
a Differential equations in developmental biology: 1. growth equations for determination of maximal possible age; 2. equation of differentiation: theoretical prerequisites. Homo sapiens and other spp. (Animalia)

ZUBOVA, Ms. S. E.; Cand.biol.sci. – Lab. of Exp. Ichthyol., Biol. Inst., Leningrad State Univ., Stary Peterhof, LENINGRAD 198904, U.S.S.R.
a Effect of X-irradiation on gametogenesis. (Chondrostei; Teleostei)

ZÜCCATOSTA, A.; Dr. – Ist. e Lab. Antropol., Univ. di Camerino, Via Filippo Camerini 5, 62032 CAMERINO, Italy
a Developmental pathology. Homo sapiens (Primates)

ZUSMAN, I. N.; Cand.biol.sci. – A. N. Severtzov Inst. of Evol. Morphol. and Ecol. of Animals, Acad. of Sci. of the USSR, Lenin Ave.33, MOSCOW 117071, U.S.S.R.

a Resistance and adaptation of the early embryo. Testudo graeca, T. horsfieldi, Emys orbicularis and others (Chelonia), Gallus gallus, Anas domesticus, Coturnix coturnix and others (Aves)

ZÜST, Ms. B.; Ph.D. – Inst. de Zool., Univ. de Fribourg, Pérolles, 1700 FRIBOURG, Switzerland

a Development of bristles and bract induction. Drosophila melanogaster (Diptera)

b Maintenance of determined state of imaginal discs after culture in vitro and transplantation in vivo. Same species as a

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(geographical order)

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* LUGER, O.
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Lehrk.II, Bot. Inst.
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* ZÁHLAVA, J. – Asst.
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* LEMEŽ, L. – Docent
* DOSKOČIL, M. – Docent
* SEICHERT, V. Asst.
* DYLEVSKÝ, I. – Docent
* GRIM, M. – Asst.
* MRÁZKOVÁ-ŠEVČIKOVÁ, Ms. O. – Asst.
* TRNKOVÁ-ŠVECOVÁ, Ms. E. – Asst.
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* FREY, M. - Asst.
* MAEHR, R. - Asst.
* CHIQUET, M. - Asst.
* BOGENMANN, E. - Asst.
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* INEICHEN, H. - Asst.
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SUBJECT INDEX

(alphabetic order)

NOTE *new headings,* particularly for work on *plants* and *unicellular organisms*, on next page!

All research subjects in the Directory of Names and Addresses are represented by at least one entry. The names of investigators refer back to that Directory.

Headings are printed in capitals. New headings are listed on the next page. Headings generally come under one of the following categories:

1) Structures, e.g. organs, tissues, cells
2) Substances or classes of substances
3) Developmental stages, processes, and factors (including metamorphosis, regeneration, developmental genetics, reproduction, developmental pathology)
4) Techniques appearing as headings are: Chemical microanalysis, Culture & preservation, Immunochemistry, Irradiation, Microcinematography, Rearing methods, Transfer (Blastocyst, etc.), Transplantation, Ultraviolet Irradiation, Vital staining, X-Irradiation. Other techniques will be found as subheadings (see below).
5) General subjects: History, Theoretical biology.

Headings are extensively cross-referenced, but not usually from lower-order to higher-order categories.

Subheadings

Headings having less than ca. 10 names of investigators usually lack subheadings.

The same research subject may be listed more than once under the same heading, e.g. under a structure and a technique.

Subheadings come under one of the following categories:

1) Entities subordinate to the heading
2) Entities related to the subject of the heading
3) Techniques, disciplines, and processes. These are often chosen from the list appearing on the next page; some of these terms are also used as headings – the resulting redundancy is unavoidable; it is considered rather an advantage because it provides several entrances to the same subject.
4) Developmental stages; see the list on the next page.
5) Links with other entities, such as "effect on . . ., effect of . . ., interactions with . . .".

Animal and Plant Names

Throughout the index Classes (and in some cases Phyla) are used exclusively. Exceptions are: the use of Homo for work on the human species, and the use of Orders under some general headings: Development (general), Development (larval), Development (post-embryonic, fetal), Embryology (general & descriptive), Embryology (physiological), Life cycles, Regeneration, Reproduction.

Those who are looking for work on a specific taxonomic group are advised to start with the headings of a general nature, such as Asexual reproduction, Development, Embryology, Life cycles, Metamorphosis, Morphogenesis, Regeneration, Reproduction, etc.

Names of investigators

In the case of work carried out jointly by two or more investigators, all collaborators are listed in alphabetical order. Since initials of first names are omitted from the entries, it may sometimes be necessary to check two or more investigators of the same surname in the Directory of Names.

Headings cancelled

Plant embryology & morphogenesis
Unicellular organisms

New Headings

Amitosis
Apical Dominance
Cell Death
Cell Wall
Chalones
Cyst & Encystment
Development (Plant: general)
Development (Unicellular organisms: general)
Dormancy
Egg Coverings
Embryology (Plant: experimental)
Flower(ing)
Free-martin(s)
Fruit(ing)
Hermaphroditism
Hormones (plant)
Implantation
Intersexuality
Leaf
Mammary Gland
Meristems
Osmoregulation
Parasitism
Photomorphogenesis
Phyllotaxis
Root
Salivary Gland
Seed (& Germination)
Sex Differentiation
Sex Reversal
Shell (body covering)
Shoot
Silk Gland
Spore (& Sporulation)
Synapse
Vascular Tissue
Vitellogenesis
Viviparity

Subheadings often used under various headings

Techniques and disciplines

Autoradiography
Biochemistry (incl. techniques)
Biophysics
Culture in vitro
Cytology
Descriptive study*
Endocrinology
Enzymes
Experimental study*
Function
General study*
Genetics
Histology
Histo-& cytochemistry
Immunology
Irradiation
Microcinematography
Molecular Biology
Morphology
Physiology
Theoretical study
Tracer study
Transplantation
Ultrastructure

Processes

Development*
Differentiation
Functional differentiation (maturation)
Growth
Induction
Involution (regression)
Malformations
Metamorphosis
Morphogenesis
Necrosis (cell death)
Pattern formation
Pathology
Regeneration
Teratogenesis

Stages

Early stages
Egg
Embryo
Fetus
Larva
Neonate
Oocyte
Oogenesis
Placenta
Postnatal
Spermatogenesis

* These subheadings are also used when the available information was not detailed enough to use one of the more specific subheadings.

ABDOMINAL CAVITY
see Body cavities

ABNORMALITIES
see Anomalies (early development); Malformations
see also Teratogenesis

ABORTIONS
see Malformations; Pathology

ACCESSORY SEX GLANDS
see Reproductive system

ACTIN
see Muscle(s)

ACTINOMYCIN
see also Antibiotics

Insecta — Truckenbrodt

ACTIVATION
see Fertilization

ADAPTATION
see also Environmental factors; Phylogenesis

Amphibia — Briegleb
Aves — Zusman
Homo — Boer, Dogterom, Hodde, Leeuwen, Swaab, Uylings, Veltman
Insecta — Chauvin, Delay, Fourche, Juberthie
Mammalia — Boer, Dogterom, Hodde, Leeuwen, Swaab, Uylings, Veltman
Reptilia — Zusman
Teleostei — Durand
Vertebrata — Durand

ADHESIVE GLAND
see Gland(s)

ADIPOSE TISSUE(S)
see also Lipid(s)

Aves — Dyer
Insecta — Labour, Papillon, Scheller
Mammalia — Mayer

ADRENAL GLAND
see also Cortisone; Insulin; Steroids

cortex
Mammalia — Mitskevich
culture in vitro
Homo — Bukulya, Gyevai
Mammalia — Bukulya, Gyevai
experimental study
Mammalia — Mitskevich
function
Amphibia — Pehlemann
Homo — Bukulya, Geyvai
Mammalia — Bukulya, Gyevai
histochemistry
Mammalia — Bielanska, Klepac, Milkovic, Paunovic, Peruzovic, Verhofstad
medulla
Mammalia — Verhofstad
pathology
Mammalia — Gabriel
ultrastructure
Amphibia — Pehlemann
Homo — Bukulya, Gyevai
Mammalia — Bielanska, Bukulya, Gyevai

AGE (AGING)

Homo — Salamatina
Mammalia — Jones, Pantelouris
effect on wound healing
Homo — Raekallio
Mammalia — Raekallio
fibroblast in vitro
Mammalia — Van Gansen
reflexes
Mammalia — Cadilhac

AGGREGATION
see Cell(s)

AIR BLADDER
see Lung(s)

AIR SACS
see Lung(s)

ALIMENTARY TRACT
see Digestive tract

ALKYLATING AGENTS

ALLANTOIS
see Embryonic membranes

AMINE(S)
see also Neurotransmitters

Echinoidea — Brachet

AMINO ACID(S)
see also Neurotransmitters

Amphibia — Anton
Echinoidea — Toneby
Euglenophyc — Salvador
Homo — Challier
Insecta — Chen, Colln
Mammalia — Choroszewska, Mankowska, Safanda

AMITOSIS

Amniota — Vahs
Amphibia — Pehlemann
Homo — Phelemann

AMNION
see Embryonic membranes

ANABIOSIS
see Diapause

ANDROGENESIS
see Genetics

ANESTHESIA

Homo — Lansdown
Mammalia — Lansdown

ANEUPLOIDY
see Heteroploidy

ANIMAL GRADIENT (animalization)
see Gradients
see also Embryology (experimental); Embryology (physiological)

ANOMALIES (early development)
see also Pathology; Teratogenesis

lethal factors
Insecta — Scriba

ANOMALIES (later development)
see Malformations
see also Teratogenesis

ANOXIA
see Respiration

ANTIBIOTICS
see also Actinomycin

Amphibia — Stagni, Vannini
Ciliata — Golinska
Insecta — Duke, Truckenbrodt

ANTIBODIES
see Immunology

ANTIGENS
see Immunology

ANTIMETABOLITES

Amphibia — Namur
Aves — Meiniel
effect on cell cycle
Gastropoda — Boon
fluorouracil
Insecta — Duke
oogenesis
Amphibia — Pays
Teleostei — Pays

protease inhibitor
Amphibia Ficq
teratogenesis
Mammalia Horvath
Mercier
Roux
Tuchmann

ANTIMITOTIC AGENTS
Echinoderm Petzelt
Mammalia Mercier
Tuchmann

ANTLERS
see Horns

AORTA
see Vascular system
see also Heart (& great vessels)

APICAL DOMINANCE
Angiosp El Hajzein
Neville
Phillips

ARCHENTERON (roof)
see Gastrulation; Neurulation
see also Induction

ASEXUAL REPRODUCTION (& development)
see also Culture & Preservation
Ascidiacea Ivanova
Hydrozoa Polteva
Schmid
Vannini
Oligochaeta Stagni
Phoronidea Emig
Porifera Korotkova
Scyphozoa Hofmann
Turbellaria Kritchinskaya
Tognato
Tokin
Torok
Vannini

ASYMMETRY
see Symmetry

AUDITORY ORGAN (& external ear)
Aves Campelo
Garcia
Mammalia Bradamante
Campbell
Chaloupka
Deol
Joseph
Kostovic
Marty
Morriss
Svajger
Truslove

AUTONOMIC NERVOUS SYSTEM
Aves Ambrosi
Le Douarin
Lemez
Smith
Teillet
Mammalia Csillik
Gajo
Kalman
Knyihar
Nie
Nyiri

BACTERIA
see also Toxins
Crustacea Legrand
Homo Jiricka
Hydrozoa Muller
Mammalia Jiricka

BEAK

BEHAVIOUR (embryonic & postnatal
Crustacea Naylor
Homo Pilleri
Mammalia Bruin
Oyen
Poll
embryo
Amphibia Roberts
Aves Sedlacek
Vince
Teleostei Alfei
foetus
Mammalia Vince
larva
Echinoidea Backstrom
Gustafson
locomotion
Amphibia Brändle
movement
Homo Bagnall
neuron
Ebendal
postnatal
Mammalia Auroux
Milkovic
Paunovic
Peruzovic
relation with nerve cells
Amphibia Baker
Bakhuis
Corner
Romijn
Mammalia Baker
Bakhuis
Corner
Romijn

BIDDER'S ORGAN
Amphibia Gardenghi
Zaccanti
Anura Vannini

BIO-ELECTRICITY
Amphibia Capuron

BIO-ENGINEERING
see Culture & Preservation; Transfer

BIOGENIC AMINES
see Neurotransmitters

BIOMETRY
see Growth

BIRTH
Homo Gennser
Mammalia Naaktgeboren
Steven

BLADDER
see Urogenital system

BLASTEMA
see Regeneration (traumatic)

BLASTOCYST
see also Cleavage; Implantation; Transfer (blastocyst, etc.)
aggregation
Mammalia Barnes
biochemistry
Mammalia Alexandre
culture in vitro
Mammalia Flechon
Glenister
McLaren
Torres
cytochemistry
Mammalia Jirsova
delayed implantation
Mammalia McLaren
diapause
Mammalia Baevsky
differentiation
Homo Martinek
Mammalia Martinek
embryo absorption
Mammalia Swanson
endocrinology
Homo Beier
Mammalia Beier
genetics
Mammalia Burgoyne
immunology
Mammalia Amoroso
inner cell mass
Mammalia Burgoyne
pathology
Homo Panigel
physiology
Mammalia Marston
teratogenesis
Mammalia Madjerek
trophoblast
Homo Billington
Dillon
Harris
Jenkinson
Panigel
Searle
Sellens
Smith

Mammalia — Alexandre, Amoroso, Billington, Burgoyne, Denker, Dillon, Glenister, Harris, Jenkinson, Legrand, McLaren, Searle, Sellens, Smith, Zeilmaker

ultrastructure
Homo — Martinek, Panigel
Mammalia — Alexandre, Flechon, Glenister, Gulamhusein, Hinchliffe, Jirsova, Martinek

BLASTODERM
see also Cleavage; Primitive streak

Aves — Breathnach, Downie, Lutz, McMaster, Modak, Vakaet, Van Roelen
Insecta — Louvet
Teleostei — Hoperskaya

BLASTODISC
see Blastoderm

BLASTOMERES
see Cleavage

BLASTULA
see Cleavage

BLOOD
see also Circulation; Hematopoiesis; Hemolymph; Vascular system

biochemistry
Homo — Thiery
cells
Cephalop — Meister
culture in vitro
Aves — Gotzos
Homo — Gotzos
endocrinology
Mammalia — Eckstein
erythrocyte
Aves — Blanchet, Godet, Lemez, Nigon
genetics
Homo — Godet, Trabuchet
hemoglobin
Amphibia — Flavin, Sala
Aves — Geraci
Crustacea — Kondo
Homo — Godet, Ramirez, Trabuchet
Vertebrata — MacLean
hemoglobin switch
Amphibia — Weber
macrophage
Homo — Gotzos
molecular biology
Crustacea — Kondo
physiology
Aves — Dawes
serum
Aves — Carinci, Jelinek
stem cells
Aves — Samarut
teratogenesis
Aves — Jelinek
thrombocyte
Aves — Lemez
ultrastructure
Cephalop — Meister

BLOOD VESSELS
see Vascular system; specific organs, etc.
see also Circulation

BODY CAVITIES (& their linings)

Aves — Duncker
Homo — Passaponti
Polychaeta — Heimler

BONE(S)
see also Bone marrow; Cartilage; Skeleton

calcification
Aves — Thesingh
Mammalia — Scherft, Valkema
culture in vitro
Aves — Nardi, Nijweide
Mammalia — Gaillard
differentiation
Aves — Thorogood
ectopic osteogenesis
Mammalia — Thorogood
endocrinology
Aves — Nijweide, Thesingh
Mammalia — Gaillard
enzymes
Mammalia — Gaillard
histogenesis
Aves — Knese
Homo — Knese
Mammalia — Knese
interact. membran.-cartilag.
Aves — Nardi
irradiation
Mammalia — Nijweide
ossification
Mammalia — Mazhuga
osteoblast
Mazhuga
periost
Aves — Nijweide
Mammalia — Nijweide
stem cells
Aves — Thorogood
tracer studies
Mammalia — Gaillard
ultrastructure
Mammalia — Scherft, Valkema

BONE MARROW
see also Hematopoiesis

Mammalia — Mazhuga

BRAIN

Crustacea — Daguerre
Homo — Hewitt
Insecta — Schurmann
Mammalia — Hewitt, Pilleri
aminergic system
Aves — Ivanoff
auditory centre
Mammalia — Chaloupka, Rokyta, Zahlava
autoradiography
Aves — Meller
Mammalia — Fulcrand, Meller
biochemistry
Aves — Stastny, Vilanova
Homo — Rooy
Mammalia — Rokyta, Rooy, Safanda
biophysics
Homo — Butler
Mammalia — Rokyta, Zahlava
brain vesicle
Aves — Alexandru, Checiu, Menkes
cell migration
Aves — Puelles
cell population
Mammalia — Mann
cerebellum
Aves — Pascual, Stefanelli
Mammalia — Bernocchi, Berry, Fraschini, Kaufmann, Korneliussen, Manfredi, Porcelli, Redi, Scherini
Teleostei — Pouwels
choroid plexus
Aves — Stastny
corpus callosum
Mammalia — Glas
cortex
Mammalia — Berry, Chronwall, Kaufmann, Marty

culture in vitro
Aves Meller, Stefanelli
Mammalia Meller
descriptive study
Mammalia Gihr, Kraus
diencephalon
Aves Camosso, Ivanoff
Mammalia Mann
effect of deprivation
Mammalia Sturrock
effect of drugs
Mammalia Raedler
effect of mat. malnutrition
Mammalia Bernocchi, Fraschini, Manfredi, Porcelli, Redi, Scherini
effect on skull
Aves Schowing
endocrinology
Mammalia Mestres
enzymes
Aves Rinaudo
Homo Rooy
Mammalia Kaufmann, Rooy
experimental study
Aves Baehny
fibre tract
Mammalia Sturrock
fissure closure
Mammalia Glas
fluid
Aves Vilanova
function
Aves Stastny
Homo Butler
Mammalia Chaloupka, Rokyta, Schiebler, Zahlava
genetics
Mammalia Osipov, Vakhrusheva
growth
Mammalia Sturrock
hemisphere
Aves Stastny
Homo Butler
histo-& cytochemistry
Mammalia Bernocchi, Fraschini, Kozik, Lierse, Manfredi, Porcelli, Redi, Scherini, Schiebler, Sumner
histogenesis
Aves Ivanoff
histology
Vertebrata Oksche
hypoglossal nucleus
Mammalia Sumner
hypothalamus
Aves Grignon, Guedenet
Homo Stark
Mammalia Grignon, Guedenet, Gyevai, Mestres, Stark
Vertebrata Oksche
inhibitory neuron
Mammalia Chronwall
involution
Mammalia Fulcrand, Marty
malformations
Aves Guirao
Homo Guirao, Woollam
Mammalia Lierse, Woollam
mapping
Mammalia Smart
maturation
Mammalia Marty
meninges
Homo Muller
mesencephalon
Aves Roncali
Mammalia Schiebler
neurogenesis
Mammalia Mestres
neurons
Mammalia Baumgarten
nuclei
Mammalia Jansen
olfactory centre
Aves Stefanelli
optic centre & tract
Puelles
Aves Raffin
Mammalia Fulcrand, Marty
Vertebrata Clairambault, Horder
organ interaction
Aves Baehny
perinatal
Aves Guirao
Homo Guirao
physiology
Amphibia Roberts
prosencephalon
Mammalia Gribnau, Smart
regeneration
Mammalia Sumner
Teleostei Campos
retino-hypothalamic connections
Vertebrata Oksche
retino-tectal connections
Amphibia Brandle
retino-tectal system
Teleostei Campos
rhombencephalon
Amphibia Roberts
stem
Mammalia Jansen
subcommissural organ
Teleostei Marini
Vertebrata Hauser
supraependymal structures
Mammalia Pietzsch
telencephalon
Aves Camosso
Homo Kostovic
Mammalia Glas, Kostovic
thalamus
Mammalia Rokyta, Zahlava
tracts
Mammalia Rokyta
ultrastructure
Aves Meller
Homo Kostovic
Mammalia Gyevai, Kaufmann, Korneliussen, Kostovic, Lierse, Meller, Pietzsch, Sievers, Sumner
Teleostei Pouwels
Vertebrata Oksche
vascularization
Aves Camosso, Roncali
Homo Kostovic, Lierse, Muller
Mammalia Bugge, Knudsen, Kostovic, Lierse
vesicles
Aves Guirao
Homo Guirao

BRANCHIAL REGION
see also Pharynx
Amniota Slipka
Homo Slipka
Teleostei Ramsay Yacob

BRISTLE
see Integument

BURSA OF FABRICIUS
see also Lymphatic System

CAMBIUM
see Vascular tissue

CAPILLARIES
see Vascular system

CAPSULE (Egg)
see Egg coverings

CARAPACE

CARBOHYDRATES
see also Matrix
cell surface
Aves Evans
glucose
Acrasiales Ashworth
Mammalia Clavert, Cockroft, New

glycogen
Ascidiacea D'Anna
Aves Meiniel
Mammalia Jost
Teleostei Benedetti
glycoprotein
Aves Kemp
hexose
Homo Challier
mucopolysaccharides
Romanova
Aves Cuminge
Dubois
Robert
Vakaet
Echinoidea Immers
Mammalia Garcia
Heine
Linde
Moczar
Robert
Svejcar
nervous system
Teleostei Benedetti
placental transfer
Homo Challier
polysaccharides
Polychaeta Dhainaut
sporophore
Fungi Hammond
teratogenesis
Aves Meiniel
Mammalia Clavert
New
Svejcar

CARCINOGENETIC AGENTS
see also Tumour(s)

Amphibia Ceas
Echinoidea Ceas
Mammalia Elger

CARTILAGE

Aves Gumpel
Knese
Rinaudo
Strudel
Homo Knese
Mammalia Bradamante
Burger
Knese
Kostovic
Kvinnsland
Mazhuga
Svajger
Thorogood

CASTE DETERMINATION
see Polymorphism

CELLS
see also Cell cycle; Cell death; Cell fusion; Cell heredity; Cell wall; Matrix; Membrane

adhesion
Acrasiales Garrod
Aves Curtis
Edwards
Evans
Jones
Kemp
Gastropoda Jones
Mammalia Evans
Mollusca Biggelaar
Porifera Curtis
adhesion & teratogenesis
Amphibia Burgess
affinity
Amphibia Grunz
Insecta Garcia
aggregation & reaggregation
Acrasiales Gerisch
Kakebeeke
Konijn
Malchow
Amphibia Englander
Smith
Stanisstreet
Ascidiacea Patricolo
Aves Curtis
Edwards
Meller
Mammalia Meller
Parsons
binucleate
Mammalia Steven
biochemistry
Lakshmi
Sherbet
Aves Curtis
Salamatina
Tumanishvili
Echinoidea Vittorelli
Mammalia Bertini
Comoglio
Johnson
Prat
Salamatina
Tarone
Tumanishvili
biophysics
Lakshmi
Sherbet
Amphibia Beloussov
Aves Beloussov
Insecta Beyse
Seydewitz
chemotaxis
Acrasiales Kakebeeke
Konijn
Malchow
Mato
Wurster
contact
Amphibia Beloussov
Aves Beloussov
Downie
Mestres
Pannese
Pegrum
Sengel
Echinoidea Moreau
Gastropoda Dohmen
Meshcheryakov
Wal
Mammalia Pegrum
Mollusca Biggelaar
Moreau
Tunicata Georges
culture in vitro
Lefford
Aves Edwards
Flint
McKenzie
Middleton
Salamatina
Tumanishvili
Echinoidea Vittorelli
Homo Bachmann
Eliasson
Insecta Dubendorfer
Faccio
Halfer
Mosna
Mammalia Bertini
Comoglio
Middleton
Parsons
Salamatina
Tumanishvili
cytochemistry
Aves Mestres
dissociation
Aves Kemp
Echinoidea Vittorelli
enzymes
Echinoidea Vittorelli
Homo Eliasson
growth control
Mammalia Bertini
Comoglio
Prat
Tarone
homing
Aves Le Douarin
immunology
Aves Stenman
Vaheri
Wartiovaara
interactions
Boucaut
Heaysman
Angiosp Lindenmayer
Amphibia MacMillan
Sturdee
Toivonen
Aves Abercrombie
Clayton
Dunn
Heath
Los
Lucey
Pritchard
Roest
Salamatina
Tickle
Tumanishvili
Echinoidea Buznikov
Monroy
Mutolo
Shmukler
Mammalia Abercrombie
Clayton
Dunn
Heath
Johnson
Lucey
Pritchard
Salamatina
Tumanishvili
Mollusca Guerrier
Verdonk
Polychaeta Guerrier
Porifera Kemp

migration
Ebendal
Lefford
Amphibia Gipouloux
Lofberg
Aves Bellairs
Christ
Hach
Jacob
Le Douarin
Portch
Puelles
Mammalia Marty
Teleostei Haarlem
molecular biology
Aves McKenzie
Echinoidea Vittorelli
Insecta Halfer
movement
Acrasiales Durston
Aves Flint
Kemp
Middleton
Moores
Sengel
Wakely
Gastropoda Jones
Mammalia Dyson
Middleton
mutant
Aves Flint
recognition
Aves Evans
Garrod
Kemp
Insecta Garcia
Mammalia Robert
shape
Aves England
Wakely
size
Amphibia Byczkowska
Chlorophyc Koop
surface
ap Gwynn
Augusti
Kilarski
Lakshmi
Sherbet
Amphibia Geuskens
Tencer
Yamada
Aves Chiquet
Curtis
Evans
Mestres
Moores
Van Roelen
Insecta Mandaron
Mammalia Johnson
Surani
tissue recognition
Cudennec

CELL CYCLE
ap Gwynn
Acrasiales Ashworth
Amphibia Anton
Bereiter
Lohmann
Mitashov
Sladecek
Yamada
Angiosp Lindenmayer
Aves Gotzos
Ciliata Vahs
Crustacea Lassegues
Eumycetoz Sauer
Gastropoda Boon
Homo Bachmann
Gotzos
Mammalia Bluemink
Laat
Lombard
Moolenaar
Nelemans
Saag
Wijk

CELL DEATH
Menkes
Aves Capalnasan
Hinchliffe
Hurle
Lanot
Ojeda
Pannese
Pautou
Pexieder
Tosici
Homo Cullen
Pexieder
Insecta Bautz
Mammalia Capalnasan
Pexieder
Turbellaria Bautz

CELL DIVISION
see Cell(s); Mitosis

CELL FUSION
see also Cell heredity
Aves Bogenmann
Luger
Homo Giannelli
Insecta Bernard
Halfer
Mammalia Austin
Bogenmann
Luger

CELL HEREDITY
see also Cell fusion
Insecta Morata
Mosna
Ripoll
Santamaria
Wyss

CELL-LINEAGE
see Embryology (experimental)

CELL RENEWAL
see Regeneration (physiological)

CELL WALL
see also Membrane
Fungi Raeven
Sietsma
Wessels

CENTRAL NERVOUS SYSTEM
see also Brain; Neural crest; Neural plate; Spinal cord
Mammalia Pilleri
autoradiography
Aves Meller
Mammalia Meller
behaviour
Mammalia Auroux
biochemistry
Teleostei Benedetti
biophysics
Aves Sedlacek
Mammalia Sobotka
changes after stimulation
Mammalia Illis
connections
Mammalia Chaloupka
culture in vitro
Amphibia Stefanelli
Aves Meller
Mammalia Bisconte
Meller
Teleostei Stefanelli
development
Homo Bossy
electrophysiology
Mammalia Corner
embryonic motility
Aves Sedlacek
function
Amphibia Szekely
Mammalia Chaloupka
functional differentiation
Homo Bossy
genetics
Insecta Campos
histochemistry
Mammalia Kozik
Mularek
histology
Mammalia Corner
induction
Amphibia Kurrat
Aves Strudel
involution
Aves Lanot
irradiation
Mammalia Berry
Lierse
malformations
Mammalia Morriss
Seller
Mauthner cells
Amphibia Stefanelli
Teleostei Stefanelli
microcinematography
Aves Menkes
myelin
Homo Wender
Mammalia Wender
necrosis
Aves Ojeda

neural tube
Peters
Aves Jurand
Menkes
Strudel
Mammalia Morriss
Rodentia Jurand
neuroglia
Aves Stastny
Insecta Tesch
Mammalia Illis
Kozik
Lierse
Marty
Mularek
Sturrock
physiology
Aves Sedlacek
Mammalia Auroux
regeneration
Mammalia Berry
Illis
Vertebrata Horder
relation to sense organs
Amphibia Brändle
role of neurones
Mammalia Corner
spinal motor column
Amphibia Szekely
teratogenesis
Aves Alexandru
Checiu
Lanot
Mammalia Lendon
ultrastructure
Aves Meller
Ojeda
Mammalia Meller
vascularization
Aves Tudose
Homo Gamble

CENTRIFUGATION
see Embryology (experimental); Embryology (physiological)

CEPHALOGENESIS
see Head

CEREBELLUM
see Brain

CHALONES

Amphibia Brugal
Homo Richter

CHEMICAL ELEMENTS
see also Ions

arsenic
Musci Simola
calcium
Amphibia Duncan
Aves Nijweide
Simkiss
Mammalia Nijweide
fluorine
Aves Van Toledo
Mammalia Ilies
Musci Simola
Tewari
heavy metals
Amphibia Palladini
Crustacea Pihan
Musci Simola
Turbellaria Palladini
iron
Amphibia Chalumeau
Homo Chalumeau
Mammalia Chalumeau
lead
Mammalia Wide
lithium
Amphibia Englander
Koebke
Stanisstreet
Wall
nitrogen
Amphibia Schultheiss
oxygen
Aves Musy
Mammalia Lierse
strontium
Aves Nijweide
Mammalia Nijweide

CHEMICAL MICRO-ANALYSIS

CHEMICALS (biologically active)
see specific chemicals (Antibiotics; Antimitotic agents etc. etc.); Chemical elements; Drugs; Ions; Teratogenesis

CHEMORECEPTORS

Amphibia Fox
Whitear
Mammalia Drukker

CHIMERAS

Amphibia Boucaut
Aves Jotereau
Le Douarin
Martin
Starre
Teillet
Mammalia Buehr
Elbling
Johnson
Lyon
McLaren
Mystkowska
Papaioannou
Seller

CHONDROCRANIUM

Homo Becker
Gathmann
Mammalia Rajtova

CHONDROGENESIS
see Cartilage

CHORDA
see Notochord

CHORION
see Placenta
see also Embryonic membranes

CHOROID PLEXUS
see Brain

CHROMAFFIN CELLS

CHROMATIN
see Chromosomes

CHROMATOPHORE(S)

Amphibia D'Anna
La Spina
MacMillan

CHROMOSOMES
see also Cytogenetics

abnormalities
Homo Barnes
Tudose
Mammalia Barnes
Cappannini
Niemierko
Tarkowski
Witkowska
banding pattern
Amphibia Bailly
behaviour
Mammalia Snow
biochemistry
Arachnida Tempelaar
Insecta Ribbert
chromatin
MacLean
Amphibia Ficq
Aves Appleby
Jandieri
Modak
Tumanishvili
Echinoidea Cognetti
Geraci
Homo Bachmann
Insecta Maehr
Schmidt
Mammalia Jandieri
Kral
Tumanishvili
constrictions
Amphibia Bailly
culture in vitro
Insecta Dennhofer
development
Turbellaria Deri
elimination
Insecta Camenzind
function
Insecta Ashburner
heterochromatin
Amphibia Bailly
Insecta Faccio
Traut
Mammalia Kinsky
irradiation
Amphibia Jaylet
Arachnida Tempelaar
Mammalia Franchi
karyotype
Insecta Ribbert
Mammalia Fraser

lampbrush
Amphibia Barsacchi
Batistoni
Bucci
Lacroix
Loones
Mancino
Nardi
Ragghianti
molecular biology
Aves Jandieri
Tumanishvili
Mammalia Jandieri
Tumanishvili
muscle
Mammalia Bachmann
oogenesis
Gastropoda Mancino
polytene
Angiosp Cionini
Insecta Beyse
Dennhofer
Frey
Maehr
Ribbert
Seydewitz
protein
Amphibia Duprat
Homo Serman
puffs
Insecta Ashburner
Dennhofer
Ish
Kroeger
Leenders
Lubsen
Vossen
regeneration
Turbellaria Deri
sex
Mammalia Burgoyne
spermatozoa
Echinoidea Geraci
teratogenesis
Homo Testa
Mammalia Horvath
ultrastructure
Homo Geneix
Jaffray
Malet
Mammalia Morin
W
Insecta Traut
X-inactivation
Mammalia Gardner
Lyon
Monk
Surani
Y
Insecta Glatzer
Hess
Johannisson
Kunz
Mischke
Schafer
Schwochau
YO lethality
Mammalia Burgoyne

CILIA

Echinoidea Gustafson

CINEMICROGRAPHY
see Microcinematography

CIRCULATION
see also Vascular System; specific organs, etc.

Aves Pexieder
Mammalia Nie

CLEAVAGE (& morula, blastula)
see also Blastocyst; Blastoderm; Blastodisc

Aves Bellairs
abnormalities
Gastropoda Boon
biochemistry
ap Gwynn
biophysics
Amphibia Rott
Teleostei Rott
blastula
Echinoidea Vittorelli
cell coat
Amphibia Geuskens
cell communication
Amphibia Rott
Teleostei Rott
cell contact
Gastropoda Meshcheryakov
Wal
Mollusca Biggelaar
cell interactions
Echinoidea Buznikov
Shmukler
cell surface
Amphibia Tencer
Gastropoda Dohmen
Mammalia Surani
chronology
Mollusca Biggelaar
control
Echinoidea Monroy
culture in vitro
Mammalia Snow
Tarkowski
Witkowska
cycle
Amphibia Rott
Crustacea Lassegues
Echinoidea Buznikov
Markova
Shmukler
Teleostei Rott
cytokinesis
Amphibia Rzehak
Signoret
cytophotometry
Crustacea Lassegues
cytoplasm
Gastropoda Dohmen
determination
Mammalia Denker
differentiation
Mammalia Snow
Mollusca Geilenkirchen
effect of amanitin
Insecta Maisonhaute
endocrinology
Mammalia Beier
Kühnel
environmental factors
Mammalia Clegg
experimental study
Amphibia Lefresne
Namur
Selman
Gastropoda Jura
Mammalia Niemierko
Opas
initial phase
A mphibia Aimar
irradiation
Mollusca Labordus
membrane
Ascidiacea O'Dell
Echinoidea O'Dell
Gastropoda Wal
Insecta Haget
microcinematography
Nematoda Wyss
mitosis regulation
Echinoderm Petzelt
molecular biology
Ascidiacea De Leo
morphology
Mammalia Kühnel
neurotransmitters
Echinoidea Buznikov
Shmukler
pattern
Echinoidea Czihak
spindle-cortex reactions
Gastropoda Meshcheryakov
spiral
Gastropoda Meshcheryakov
symmetry
Gastropoda Meshcheryakov
transcription
Teleostei Kafiani
Kostomarova
ultrastructure
Amphibia Geuskens
Selman
Aves Christ
Jacob
Gastropoda Dohmen
Fioroni

CLOACA
see Urogenital system

CLONE(S)
see Asexual reproduction; Cell(s); Cell heredity

COELOM
see Body cavities

COLCHICINE
see Antimitotic agents

COLLAGEN

Ascidiacea Patricolo
Aves Robert
Echinoidea Pucci
Toneby
Mammalia Mazzucco
Moczar
Robert
Van Gansen
Porifera Robert

COLOUR PATTERNS
see Chromatophore(s); Pigment(ation)

COMPETENCE (inductive)
Amphibia Chibon, Johnen

CONGENITAL MALFORMATIONS
see Malformations

CONNECTIVE TISSUE
see also Fibroblast(s)
Aves Christ, Jacob
Homo Dylevsky
Mammalia Csaba, Luke
Turbellaria Pedersen

CORPUS ALLATUM

CORPUS LUTEUM
Mammalia Colombo, Torres

CORTEX
see Cell(s); Egg(s)

CORTISONE
see also Steroids
Amphibia Hanke
Aves Gasc
Mammalia Mercier, Milkovic, Paunovic, Peruzovic
Teleostei Hanke

CRANIUM
see Skull
see also Chondrocranium

CRYPTOBIOSIS
see Diapause

CULTURE & PRESERVATION (embryo, etc.)
see also Rearing methods; Transfer
Cestoda Smyth
Spermatoph Chandra
asexual reproduction
Angiosp Reuveni
blastocyst
Mammalia Flechon, Torres
blastoderm
Aves Vakaet
bud
Angiosp Haccius
callus
Angiosp Harry, Harte, Heszky, Jelaska, Ly, Pierik
Gymnosp Rohr
defined medium
Fungi Wood
early embryo
Mammalia Czolowska, McLaren
embryo
Angiosp Monnier
Aves Deleanu, Lucey, Prelipceanu
Gastropoda Vela
Mammalia Buckley, Buehr, Glenister, McLaren, New, Steele, Webb, Zeilmaker
Porifera Korotkova
embryo from single cell
Angiosp Jelaska
embryogenesis
Angiosp Street
Spermatoph Chandra
embryoid
Angiosp Guignard, Haccius, Harry, Ly, Mestre
embryonic membranes
Mammalia Wrba
endocrinology
Mammalia Buckley
environmental factors
Angiosp Reuveni
freezing
Amphibia Gallien
Mammalian Flechon, Whittingham
fruiting body
Fungi Wood
gametophyte
Gymnosp Rohr
haploids
Angiosp Heszky
implantation
Mammalia Monk
larval stages
Crustacea Williamson
malformations
Mammalia Wrba
organogenesis
Angiosp Street
placenta
Homo Baker
preservation
Angiosp Heszky, Withers
storage
Mammalia Brand, Whittingham
tissue
Angiosp Bopp

CYCLIC AMP
see Nucleotides

CYST & ENCYSTMENT
Chlorophyc Koop
Ciliata Kink
Dinophyc Netzel
Rhizopoda Jantzen

CYTOCHALASIN
see Antibiotics

CYTOGENETICS
Acrasiales Ashworth
Amphibia Bailly, Labrousse, Zaborski
Angiosp Heszky
Homo Capalnasan, Czapska, Polani, Salamatina, Tosici
Mammalia Polani

CYTOLOGY
see Cytogenetics

CYTOSTATIC AGENTS
see Antimitotic agents

CYTOTOXIC AGENTS
see Drugs

DEDIFFERENTIATION
see also Metaplasia
Amphibia Burgess, Harrebomee, Modak, Yamada
Annelida Boilly
Ciliata Kink
Polychaeta Fontes, Thouveny

DEOXYRIBONUCLEIC ACID
see also Nucleic acids
cDNA
Jones
cell cycle
Aves Gotzos
Homo Gotzos
cell differentiation
Homo Jacob
Amphibia Jacob
cell fusion
Aves Luger
Mammalia Luger
chloroplast
Euglenophyc Heizmann
cloning in E. coli
Insecta Artavanis
control by other substances
Aves Jandieri, Tumanishvili
Mammalia Jandieri, Tumanishvili
early stages
Aves Scherrer
Insecta Schnetter
Teleostei Kafiani, Kostomarova
effect of endonuclease
Amphibia Ficq
effect of hormones
Insecta Egberts
egg
Amphibia Hanocq
embryo
Echinoidea Tosi

endocrinology
Mammalia Goswami
extrachromosomal
Insecta Kloc
Matuszewski
eye
Chondrostei Baburina
Mitashov
Stroeva
Mammalia Panova
Stroeva
fibroblast
Aves Musy
heart
Insecta Jensen
hematopoiesis
Aves Gazaryan
Modak
histone coding
Echinoidea Birnstiel
imaginal disc
Insecta Egberts
Mischke
Vijverberg
in chromatin fractions
Insecta Schmidt
induction
Teleostei Vahs
irradiation
Arachnida Tempelaar
Aves Beaupain
kidney
Aves Gasc
methylation
Echinoidea Tosi
mitochondrial
Ascidiacea De Leo
Echinoidea Rinaldi
nucleolus
Amphibia Angelier
oocyte
Amphibia Angelier
oogenesis
Amphibia Ficq
Grippo
Insecta Kloc
Matuszewski
ovary
Insecta Nagl
Ribbert
redundant
Mammalia Jones
regeneration
Amphibia Anton
Oligochaeta Mouton
Polychaeta Fontes
Marilley
repair
Homo Giannelli
Mollusca Labordus
replication
Insecta Halfer
Ribbert
ribosomal
Amphibia Birnstiel
Ficq
Hanocq
Insecta Kunz
satellite
Amphibia Bailly
Insecta Kunz
silk gland
Insecta De Turenne
synthesis
Aves Gotzos
Echinoidea De Petrocellis
Parisi
Vittorelli
Insecta De Turenne
template activity
Amphibia Ficq
thalidomide intercalation
Fickentscher
transcription
Acrasiales Rickwood
Amphibia Crippa
Geuskens
Hanocq
Aves Gazaryan
Imaizumi
Scherrer
Therwath
Tiedemann
Echinoidea Spinelli
Eumycetoz Sauer
Insecta Sekeris
Traut
Mammalia Van Gansen
Rhizopoda Jantzen
Teleostei Kafiani
Kostomarova
transcription & translation
Mammalia Goswami
Jones
translation
Aves Tiedemann
Insecta Bode
Rhizopoda Jantzen

DETERMINATION
(embryonic)
see also Induction;
specific organs, etc.

Cephalop Marthy
Insecta Vollmar
biochemistry
Amphibia Tiedemann
Echinoidea Lallier
Insecta Kuthe
cellular
Amphibia Duprat
Insecta Gehring
culture in vitro
Amphibia Duprat
early embryo
Mammalia Gardner
experimental study
Insecta Weideli
gastrulation
Aves Leikola
genetics
Insecta Nöthiger
imaginal disc
Insecta Dubendorfer
Ivanov
Mglinetz
Schedl
Zust
inheritance
Insecta Bernard
maintenance
Insecta Zust
neural crest
Amphibia MacMillan
Aves Lelievre
neural plate
Amphibia Beetschen
ooplasmic segregation
Mollusca Dongen
organ primordia
Amphibia Woellwarth
regeneration
Insecta Bulliere
relation to cell cycle
Amphibia Sladecek
stability
Insecta Bernard
transdetermination
Insecta Steiner
trophoblast
Mammalia Alexandre
Denker
tumour
Mammalia Evans

DEVELOPMENT(general)
see also Asexual reproduction;
Life cycle(s); Morphogenesis

Arachnida Juberthie
Ascidiacea Farinella
Brachiopoda Emig
Cephalop Boletzky
Cetacea Gihr
Pilleri
Cladocera Bettanin
Della Croce
Coleoptera Meer
Copepoda Terpilowska
Cyclostom Baxter
Decapoda Williamson
Diptera Gardenghi
Ectoprocta Nielsen
Mammalia Schmidt
Mesozoa O'Dell
Oligochaeta Pylilo
Phoronidea Emig
Polychaeta Hofmann
Teleostei Durand
Gihr
Trematoda Soltynska
Urodela Durand
biophysics
Insecta Briegleb
Neubert
descriptive study
Cestoda Bazitov
effect of pollutants
Teleostei Ozoh
effect of prenatal retardation
Mammalia Lansdown
endocrinology
Vertebrata Antila
enzymes
Crustacea Raineri
experimental study
Mammalia Wilson
histology
Porifera Efremova
immunology
Porifera Evans
in vitro
Cestoda Smyth
morphogenesis
Hydrozoa Muller
physiol. clock in pupa
Insecta Neumann

pollution
Teleostei Heesen
protein turnover
Paskin
ultrastructure
Insecta Priester
Porifera Efremova

DEVELOPMENT (larval)
see also Polymorphism (insects)

Asteroidea Kasyanov
Brachiopoda Franzen
Brachyura Ingle
Bryozoa Strom
Copepoda Lescher
Crustacea Castel
Fincham
Decapoda Ngoc
Echinoidea Kruchkova
Ryberg
Ectoprocta D'Hondt
Entoprocta Franzen
Gastropoda Thiriot
Heteronemer Cantell
Hymenoptera Schmidt
Isoptera Truckenbrodt
Lamellibr Kulikova
Le Roux
Lucas
Prieur
Orthoptera Schmidt
Pogonophora Jagersten
Polychaeta Cazaux
Prosobranchia Giese
Thysanura Larink
behaviour
Invertebr Muller
biochemistry
Echinoidea Immers
Insecta Rembold
comparative study
Invertebr Jagersten
growth
Amphibia Fox
morphology
Prosobranch Fretter
physiology
Prosobranch Fretter
trochophora
Annelida Heimler
trochophora-like
Coelomata Heimler
ultrastructure
Amphibia Fox

DEVELOPMENT (plant: general)

Musci Simola
autotrophism
Angiosp Street
biochemistry
Fungi Hammond
Sietsma
Willetts
Wood
callus induction
Angiosp Pierik
coremia & rhizomorphs
Fungi Botton
culture in vitro
Angiosp Pierik
cytology
Fungi Willetts
effect of glucose on growth
Acrasiales Ashworth
embryo
Angiosp Mestre
enzymes
Angiosp Mader
Fungi Wood
fruiting body
Fungi Wood
fusion of strains
Myxomycetes Schrauwen
geotropism
Angiosp Gulluni
Santoro
heterocyst spacing
Cyanophyc Wilcox
hormones
Angiosp Phillips
hyphae
Fungi Wessels
molecular biology
Acrasiales Hames
Rickwood
Angiosp Cionini
physiology
Angiosp Cionini
Heszky
Mestre
Fungi Moore
protonema
Musci Bopp
relation with cell wall
Fungi Sietsma
sporophore
Fungi Hammond
Moore
stimulation by oscillation
Acrasiales Wurster
transition yeast-mycelium
Fungi Willetts
tropism
Angiosp Guillemonat
Neville
Phillips
ultrastructure
Acrasiales Hohl
Fungi Hohl

DEVELOPMENT (post-embryonic, fetal)

Acarina Cassagne
Araneida Bonaric
Emerit
Legendre
Homo Gennser

DEVELOPMENT (unicellular organisms: general)

biochemistry
Rhizopoda O'Dell
Preston
molecular biology
Rhizopoda Jantzen
shell
Dinophyc Netzel
Rhizopoda Netzel
transformation
Rhizopoda O'Dell
Preston
ultrastructure
Chlorophyc Kiermayer

DEVELOPMENTAL GENETICS
see Genetics

DEVELOPMENTAL PATHOLOGY
see Pathology

DEVELOPMENTAL PHYSIOLOGY
see Embryology (experimental); Embryology (physiological & biochemical)
see also Development

DIAPAUSE
see also Dormancy

Crustacea Bettanin
Della Croce
Kondo
Insecta Fourche
Ineichen
Mauchamp
Mammalia Baevsky
Oligochaeta Saussey

DIAPHRAGM
see Body cavities

DIET
see Nutrition

DIFFERENTIATION
see also Dedifferentiation; Metaplasia; specific organs, etc.

ameloblast
Vertebrata Wakita
autoradiography
Amphibia Jacob
biochemistry
Aves Meller
Robert
Hepaticae Viell
Insecta Kuthe
Mammalia Robert
Serman
Skreb
Porifera Robert
blastoderm cells
Insecta Meer
capacity
Amphibia Englander
Koebke
Aves Passaponti
Mammalia Salaun
cell cycle
Mammalia Bluemink
Laat
Moolenaar
Nelemans
Saag

cell fusion
Aves Luger
Mammalia Luger
cell surface
ap Gwynn
Aves Chiquet
cellular
Acrasiales Durston
Gerisch
Amphibia Chibon
Duprat
Hoperskaya
Landstrom
Lovtrup
Angiosp Dexheimer
Harry
Street
Aves Flint
Meller
Puelles
Crustacea Kondo
Gastropoda Fioroni
Hydrozoa Kucias
Insecta Gehring
Mammalia Adamson
Bulmer
Konyukhov
Kucias
Mazhuga
Mazzucco
Meller
Peel
Sazhina
Surani
Trematoda Soltynska
Turbellaria Chandebois
chromosomes
Amphibia Signoret
cleavage
Mammalia Snow
coat pattern
Mammalia Hornby
connective tissue
Aves Christ
Jacob
culture in vitro
Amphibia Duprat
Angiosp Bopp
Harte
Street
Cestoda Smyth
Insecta Barigozzi
Bulliere
Mammalia Wrba
cyst
Ciliata Kink
cytochemistry
Arachnida Pijnacker
Insecta Pijnacker
digestive tract
Amphibia Albert
early embryo
Aves McKenzie
Mammalia Crnek
Hofman
Levak
Skreb
Svajger
Mollusca Biggelaar
ectoderm
Amphibia Engländer
effect of collagen
Mammalia Mazzucco
embryoid
Angiosp Guignard
endocrinology
Insecta Bulliere
Egberts
entropy
Hydrozoa Kucias
Mammalia Kucias
enzymes
Insecta Hansen
Mammalia Adamson
experimental study
Acrasiales Konijn
Amphibia Duncan
Insecta Weideli
genetics
Mammalia Konyukhov
Sazhina
histoblast
Insecta Bautz
histochemistry
Insecta Sprey
imaginal disc
Insecta Dewes
Egberts
Guillermet
Lafont
immunochemistry
Acrasiales Gerisch
irradiation
Amphibia Peters
mechanism
Mollusca Geilenkirchen
meristem
Angiosp Clowes
mesoderm
Amphibia Beloussov
Kurrat
Aves Beloussov
Mauger
metamorphosis
Amphibia Turner
molecular biology
Modak
Amphibia Burgess
Jacob
Insecta Hansen
mutant cell
Aves Flint
neural crest
Aves Hach
neural crest cells
Aves Le Douarin
Teillet
neuroblastoma
Augusti
ooplasmic segregation
Mollusca Dongen
photomorphogenesis
Angiosp Wellmann
potency
Insecta Barigozzi
potential
Homo Rousseau
Hydrozoa Schmid
protein turnover
Paskin
regeneration
Amphibia Burgess
Harrebomee
Annelida Boilly
Polychaeta Fontes
Turbellaria Baguna
Chandebois
Le Moigne
relation to cell division
Amphibia Brugal
Mollusca Biggelaar
satellite DNA
Insecta Kunz
skeleton
Aves Thorogood
specific states
Vertebrata Horder
stability
Amphibia Hoperskaya
state
Aves McKenzie
subcellular components
Insecta Molen
teratoma
Mammalia Salaun
teratoma in vitro
Homo Graham
Mammalia Adamson
Graham
Papaioannou
theoretical study
Zotin
transformation
Amphibia Landstrom
Lovtrup
tumour
Homo Rousseau
Mammalia Evans
ultrastructure
Amphibia Jacob
Vahs
Aves Christ
Jacob
Gastropoda Fioroni
without cleavage
Polychaeta Brachet

DIGESTIVE TRACT
see also specific parts

Amphibia Albert
Cambar
Lestage
Ascidiacea Burighel
Aves Harrisson
Mammalia Harrisson
Morris
Phoronidea Emig

DISAGGREGATION
see Cell(s)

DORMANCY
see also Diapause

Angiosp Linskens
Neville

DRUGS (& other biologically active chemicals)
see also specific classes of agents (Antimitotic agents etc.); Teratogenesis; Thalidomide; Pesticides

alcaloids
Aves Schowing
Mammalia Mercier
Schowing
Tuchmann
anticonvulsant
Mammalia Mercier
Tuchmann
barbiturates
Aves Ojeda
clofibrate
Mammalia Nyitray
Szaszovszky
cyclophosphamide
Homo Brun
Mammalia Brun
effect on breathing
Homo Gennser
effect on early embryo
Aves Doskocil
effect on embryo
Amphibia Sala
effect on fertility
Mammalia Tuchmann
effect on fetus
Mammalia Tuchmann
effect on heart
Mammalia Charbonne
Perissel
effect on implantation
Homo Jiricka
Mammalia Jiricka
effect on neural tube
Aves Jurand
Mammalia Jurand
effect on placenta
Homo Jiricka
Mammalia Jiricka
effect on regeneration
Aves Balakhonov
Mammalia Joseph
ethacrynic acid
Mammalia France
hypolipidemic
Mammalia Szaszovszky
immunodepressors
Aves Balakhonov
LSD
Mammalia Muller
mutagenesis
Mammalia James
neuroleptic
Mammalia Mercier
Tuchmann
neuromuscular blocking
Mammalia Shoro
neuropharmaca
Homo Challier
Guerre
Nandakumaran
neurotoxic
Mammalia Baumgarten
neurotropic
Aves Jurand
Mammalia Jurand
nucleic acid blocking
Mammalia Raedler
perphenazine
Mammalia Druga
phenobarbital
Mammalia Druga
Nyitray
psychotropic
Mammalia Schloot
relaxant
Aves Jurand
Mammalia Jurand
reserpine
Aves Barastegui
Mammalia Mercier
Tuchmann
Turbellaria Barastegui
strychnin
Amphibia Gulluni
Santoro
teratogenesis
Aves
Jelinek
Jurand
Ojeda
Mammalia Dostal
Druga
James
Jelinek
Jurand
Mercier
Nyitray
Shoro
Szaszovszky
Thesleff
test
Aves Jelinek
Mammalia Dostal
Jelinek
theophylline
Mammalia France
veratrum
Amphibia Gulluni
Santoro

EAR
see Auditory organ (& external ear)

ECTODERM
see Embryology (experimental); Embryology (general & descriptive)

EGG(S)
see also Blastocyst; Cleavage; Culture & preservation; Fertilization; Gradient; Oogenesis; Transfer (blastocyst, etc.); Yolk

actin
Ascidiacea Puccia
aging
Mammalia Szollosi
Teleostei Szollosi
albumen
Aves Gerlinger
architecture & development
Insecta Went
atresia
Mammalia Byskov
autoradiography
Gastropoda Bolognari
Bottke
Mollusca Bolognari
biochemistry
Amphibia Brachet
Pays
Ascidiacea D'Anna
Echinoidea Cognetti
Insecta Papillon
Mammalia Alexandre
Polychaeta Dhainaut
Teleostei Pays
biophysics
Mammalia Whittingham
carcinogenesis
Mammalia Elbling
chromosomes
Mammalia Franchi
comparative study
Homo Gaillard
cortex
Mammalia Flechon
Opas
cortical granules
Teleostei Scriba
culture in vitro
Amphibia Baltus
Colombo
Hanocq
Homo Stegner
Zeilmaker
Mammalia Alexandre
Elbling
Kaufman
Stegner
Szollosi
Teleostei Szollosi
cytochemistry
Amphibia Steinert
Ubbels
Homo Martinek
Mammalia Martinek
cytology
Polychaeta Peaucellier
cytoplasm transplantation
Amphibia Ubbels
cytoplasmic localisation
Gastropoda Dohmen
cytoplasmic segregation
Amphibia Ubbels
devel. after activation
Mammalia Whittingham
effect of benzopyrene
Amphibia Ceas
effect of enzymes
Polychaeta Peaucellier
effect of parasite
Insecta Papillon
endocrinology
Amphibia Colombo
Doree
Guerrier
Asteroidea Doree
Guerrier
Teleostei Colombo
Vertebrata Antila
energy reserve
Teleostei Kamler
enzymes
Crustacea Falugi
experimental study
Insecta Schnetter
formation
Cephalop Buckley
fusion
Ascidiacea Farinella
gene transcription
Aves Imaizumi
Scherrer
Insecta Traut

germinal vesicle
Amphibia Aisenstadt
Skoblina
Chondrostei Aisenstadt
Skoblina
glycerinated
Gastropoda Meshcheryakov
immunology
Teleostei Apekin
inductive substances
Echinoidea Horstadius
ion distribution
Amphibia Dick
irradiation
Insecta Zissler
Mammalia Franchi
maturation
Amphibia Aisenstadt
Baltus
Chulitzkaya
Colombo
Dettlaff
Feulgengauer
Hanocq
Hubert
Pays
Skoblina
Steinert
Stepanov
Chondrostei Aisenstadt
Chulitzkaya
Dettlaff
Feulgengauer
Ginsburg
Skoblina
Stepanov
Crustacea Charniaux
Homo Zeilmaker
Mammalia Alexandre
Kaufman
Szollosi
Polychaeta Peaucellier
Teleostei Apekin
Colombo
Ginsburg
Pays
Skoblina
Szollosi
maturation induction
Amphibia Brachet
maturation promoting factor
Amphibia Moreau
Asteroidea Moreau
meiosis
Amphibia Doree
Ficq
Guerrier
Moreau
Asteroidea Doree
Moreau
Echinoderm Guerrier
Gastropoda Bergerard
Bottke
Homo Polani
Mammalia Polani
Polychaeta Guerrier
Peaucellier
meiosis induction
Angiosp Linskens
Ascomyc Croes
Chlorophyc Linskens
metabolism
Mammalia Zeilmaker
Polychaeta Peaucellier
microcinematography
Amphibia Hara
molecular biology
Amphibia Hanocq
Muller
Thomas
Ascidiacea Farinella
Mansueto
Echinoidea Giudice
Insecta Nagl
neurotransmitters
Amphibia Ubbels
Ascidiacea Falugi
Minganti
Echinoidea Falugi
Minganti
nucleo-cytopl. interact.
Amphibia Skoblina
Chondrostei Skoblina
Teleostei Skoblina
nucleolinus
Mollusca Bolognari
nucleus
Gastropoda Bolognari
oocyte
Amphibia Billett
Hanocq
Muller
Thomas
Van Gansen
Ascidiacea D'Anna
Cephaloch De Leo
Echinoidea Cognetti
Homo Stegner
Insecta Perkowska
Mammalia Baker
Franchi
Stegner
Zeilmaker
Nematoda Billett
ooplasmic movement
Amphibia Rzehak
ooplasmic segregation
Insecta Schnetter
Mollusca Dongen
Geilenkirchen
Verdonk
ooplasm transplantation
Insecta Schnetter
oviposition
Insecta Winkler
ovulation
Homo Baker
Marston
Mammalia Baker
Marston
Teleostei Colombo
physiology
Mollusca Geilenkirchen
pigment
Amphibia Rzehak
resting
Crustacea Bettanin
Della Croce
surface
Gastropoda Dohmen
symmetry
Amphibia Nieuwkoop
Ubbels
temperature
Insecta Papillon
teratogenesis
Mammalia Elbling
ultrastructure
Amphibia Billett
Guyot
Steinert
Ubbels
Ascidiacea La Spina
Cephaloch De Leo
Ctenophora De Leo
Gastropoda Bottke
Homo Martinek
Stegner
Insecta Perkowska
Went
Zissler
Mammalia Kassner
Martinek
Stegner
Wabik
Polychaeta De Leo
Dhainaut
vitelline membrane
Mammalia Whittingham

EGG COVERINGS

Insecta Barbier
Oligochaeta Farnesi
Tei
Opisthobr Kress
Teleostei Bouvet
Hagenmaier
Riehl
Rubtsov
Turbellaria Marinelli
Vagnetti

EGG MEMBRANES
see Egg coverings;
Embryonic membranes

EGG SHELL
see Egg coverings

ELECTRICITY
see Bio-electricity

ELEMENTS (chemical)
see Chemical elements

EMBRYO-MATERNAL RELATIONSHIPS
see also Placenta

blastocyst
Mammalia McLaren
diabetes
Mammalia Deuchar
immunology
Amphibia Badet
Chateaurey-
naud
Mammalia Bulmer
Chateaurey-
naud
McLean
Peel
maternal age
Mammalia Jones

maternal malnutrition
Mammalia Bernocchi
Fraschini
Manfredi
Porcelli
Redi
Scherini
nutrition
Mammalia Auroux
psychogenous influences
Mammalia Bontekoe
Naaktgeboren
relation uterus-conceptus
Homo Beier
Mammalia Beier
transmission of substances
Mammalia Choroszewska
Morris
Panigel
Pascaud
Wild
ultrastructure
Mammalia Glenister

EMBRYO PRESERVATION
see Culture & preservation

EMBRYO TRANSFER
see Transfer

EMBRYOLOGY (experimental)
see also specific stages; Determination; Gradients; Induction; Morphogenesis; Pattern formation; Regulation

Amphibia Testa
Araneida Holm
Coleoptera Schnetter
Collembola Tamarelle
Diplopoda Dohle
Gastropoda Hess
Homoptera Korner
Isopoda Daguerre
Lassegues
Lepidoptera Legay
Oligochaeta Devries
Polychaeta Hofmann
Rodentia Csaba
Vertebrata Durand
axial patterns
Mollusca Guerrier
Polychaeta Guerrier
axis
Aves Stephan
biochemistry
Amphibia Stanisstreet
biophysics
Amphibia Beloussov
Aves Beloussov
blastokinesis
Insecta Sander
blastomere
Echinoidea Vittorelli
cell aggregation
Amphibia Smith
Stanisstreet
cell contacts
Echinoidea Moreau
Mollusca Moreau
cell division control
Echinoidea Monroy
cell lineage
Angiosp Lindenmayer
Crustacea Dohle
Diptera Dubendorfer
Insecta Steiner
Isopoda Hahnenkamp
Nematoda Sulston
cell lineage in eye
Insecta Tesch
cellular phenomena
Mollusca Guerrier
Polychaeta Guerrier
centrifugation
Insecta Bownes
chromosomes
Amphibia Lacroix
Loones
compartmentalization
Insecta Lawrence
control mechanism
Echinoidea Guerrier
Mollusca Guerrier
culture in vitro
Insecta Went
Mammalia Czolowska
Glenister
Porifera Korotkova
cytology
Polychaeta Peaucellier
early stages
Amphibia Vacek
Aves Callebaut
McKenzie
Vacek
Insecta Gateff
Mammalia Beier
Crnek
Fraser
Hoare
Hofman
Levak
Modlinski
Morriss
Skreb
Svajger
Vacek
Webb
Mollusca Verdonk
ectoderm
Amphibia Johnen
effect of agents
Mammalia Kaufman
effect of antibiotics
Insecta Truckenbrodt
effect of chemicals
Amphibia Giolitti
Gulluni
Santoro
effect of drugs
Amphibia Sala
effect of ether
Insecta Bownes
effect of factors
Echinoidea Horstadius
effect of heavy metals
Crustacea Pihan
effect of hormones
Cephalop Buckley
effect of IUD
Homo Hurst
Mammalia Hurst
endoderm
Amphibia Albert
endoderm-mesoderm interact.
Amphibia Albert
environmental factors
Ascidiacea Farinella
Mammalia Surani
Polychaeta Peaucellier
fate map
Insecta Schupbach
gamete age
Mammalia Komar
germ layers
Mammalia Levak
Skreb
Svajger
incompatibility
Amphibia Girard
irradiation
Insecta Zissler
limb
Aves Kieny
lithium
Amphibia Koebke
marginal zone
Amphibia Koebke
mesectoderm
Aves Lelievre
mesoderm
Amphibia Beloussov
Hakim
Kurrat
Aves Beloussov
Kieny
Mauger
mesoderm formation
Amphibia Boterenbrood
Hara
Nieuwkoop
microcinematography
Insecta Went
molecular biology
Amphibia Wall
morphogenetic potential
Amphibia Hakim
morphology
Amphibia Stanisstreet
Mammalia Wilson
muscle
Aves Kieny
neural crest cells
Aves Hach
nuclear transplantation
Insecta Santamaria
nucleo-cytoplasmic relations
Mammalia Balakier
Tarkowski
potency
Aves Tahka
relation to egg architecture
Insecta Went
role of membrane
Amphibia Guerrier
Echinoderm Guerrier
Polychaeta Guerrier
segmentation
Amphibia Ivanov
Aves Ivanov
Insecta Sander
somatic embryogenesis
Spermatoph Chandra
stages
Amphibia Ignatjeva
Teleostei Ignatjeva

theoretical study
Bezem
Raven
tracer study
Mollusca Guerrier
Polychaeta Guerrier
triploid embryos
Mammalia Niemierko

EMBRYOLOGY (general & descriptive)
see also specific stages; Development (general); Organogenesis

Acarina Cassagne
Apterygota Koscielski
Arachnida Ehn
Araneida Emerit
Legendre
Artiodactyla Knese
Schmidt
Torres
Ascidiacea Farinella
Carnivora Gulamhusein
Cephaloch Flood
Cephalop De Leo
Chelonia Ragozina
Cladocera Bettanin
Della Croce
Coleoptera Louvet
Ressouches
Collembola Krzysztofowicz
Tamarelle
Copepoda Kohler
Diplopoda Dohle
Heteropt Louvet
Homo Menkes
Hymenopt Koscielska
Isopoda Daguerre
Lassegues
Lacertilia Bons
Malacostr Zilch
Notostraca Kohler
Orthoptera Louvet
Pantopoda Winter
Phasmida Louvet
Polychaeta Cazaux
Heimler
Porifera Alekseeva
Prosobranch Giese
Rodentia Czolowska
Mystkowska
Ozdzenski
Peters
Teleostei Tcherniaev
Turbellaria Koscielski
body form
Cetacea Pilleri
comparative study
Ascidiacea Ivanova
Hymenopt Woyke
culture in vitro
Aves Lucey
Mammalia Steele
early stages
Aves Christ
Jacob
Rostedt
Coleoptera Schnetter
Collembola Jura
Crustacea Dohle
Mammalia Billington
Dillon
Jenkinson
Searle
Sellens
Smith
Rodentia Modlinski
environmental factors
Coleoptera Delay
Juberthie
microcinematography
Aves Lucey
normal table
Teleostei Morgan
Urodela Bozdzilovsk.
periderm destructs shell
Teleostei Bouvet
role of membrane
Amphibia Bluemink
segment
Phasmida Louvet
segmentation
Brachiopoda Siewing
Phoronidea Siewing
staging
Rodentia Snow
ultrastructure
Amphibia Duncan
Guyot
Habrova
Nedvidek
Smith
Stanisstreet
Anura Gipouloux
Ascidiacea Dolcemascolo
Gianguzza
Mancuso
Aves Bellairs
Christ
Jacob
Vakaet
Collembola Tamarelle
Homo Hinrichsen
Mammalia Crnek
Skreb
Teleostei Bouvet
Turbellaria Le Moigne

EMBRYOLOGY (physiological & biochemical)
see also specific stages; Development; Energy; Metabolism; Nutrition; Respiration, etc.

Echinoidea Minganti
Homoptera Sander
Rodentia Csaba
biochemistry
Amphibia Melehova
Ascidiacea D'Anna
Aves Dubois
Crustacea Hultin
Echinoidea Bäckstrom
Brachet
De Petrocellis
Parisi
Pucci
Hydrozoa Muller
Insecta Artavanis
Mammalia Johnson
biophysics
Amphibia Capuron
cell surface
Aves Van Roelen
cholinesterase
Mammalia Drews
early stages
Mammalia Kaufman
electrolytes
Aves Simkiss
endocrinology
Mammalia Kratochwil
enzymes
Ascidiacea Falugi
Minganti
Crustacea Falugi
Echinoidea Falugi
Insecta Duspiva
histo-& cytochemistry
Acari Pijnacker
Ascidiacea Dolcemascolo
Gianguzza
Mancuso
Aves Van Roelen
Insecta Pijnacker
Mammalia Drews
interact. morphogen.-metab.
Echinoidea Ostroumova
Hydrozoa Ostroumova
molecular biology
Amphibia Darnbrough
Geuskens
Habrova
Nedvidek
Aves McKenzie
Wylie
Echinoidea Czihak
Gezelius
Giudice
Immers
Pirrone
Rinaldi
Spinelli
Mammalia Kaufman
metabolism
Polychaeta Peaucellier
parthenogenesis
Mammalia Kaufman
tracer study
Ascidiacea Mansueto

EMBRYOLOGY (Plant: experimental)
see also Meiosis

adventitious embryo
Angiosp Haccius
antipodals
Angiosp Turala
biochemistry
Angiosp Ryczkowski
Street
comparative study
Angiosp Ly
culture in vitro
Angiosp Erdelska
Pretova
Street
histo- & cytochemistry
Angiosp Nagl
effect of substances
Angiosp Pretova
embryo
Angiosp Ly
embryo culture
Angiosp Monnier

embryo sac
Angiosp Erdelska
embryogenic potential
Angiosp Jelaska
experimental study
Gymnosp Willemse
freezing injury
Angiosp Withers
function of pigment
Angiosp Pretova
gametophyte in vitro
Gymnosp Rohr
haustorium
Angiosp Vannereau
hormones
Angiosp Alpi
ovule
Angiosp Ryczkowski
phylogenesis
Angiosp Ly
physiology
Angiosp Ryczkowski
seed sterility
Angiosp Turala
suspensor
Angiosp Alpi
Cionini
Nagl
ultrastructure
Angiosp Ly
Nagl
Street
Vannereau
Gymnosp Willemse

EMBRYOMA(S)
see Teratoma(s)

EMBRYONIC FLUIDS
see Embryonic membranes

EMBRYONIC MEMBRANES (& fluids)

Reptilia Bellairs
allantois
Aves Marraro
amnion
Mammalia France
chorioallantois
Aves Simkiss
chorion
Homo Durst
Hoyes
effect of chemicals
Mammalia France
enzymes
Homo Gennser
fluids
Homo Gebhardt
Gennser
Shoro
Mammalia France
function
Mammalia Kuhnel
histochemistry
Mammalia Kuhnel
in vitro
Mammalia Wrba
malformations
Aves Jelinek
physiology
Aves Simkiss
teratogenesis
Aves Marraro
ultrastructure
Homo Calastrini
Hoyes

ENCYSTMENT
see Cyst

ENDOCRINE ORGANS
see also specific organs; Hormones

APUD cells
Aves Fontaine
Harrisson
Mammalia Fontaine
Harrisson
comparative study
Mammalia Harrison
cytology
Teleostei Olivereau
development
Crustacea Daguerre
Cyclostom Fernholm
enteroendocrine cells
Teleostei Rombout
function
Homo Stark
Mammalia Stark
histochemistry
Teleostei Olivereau
histogenesis
Amphibia Hanke
morphology
Homo Stark
Mammalia Stark
neurosecretory organs
Crustacea Herp
Strolenberg
Insecta Ramade
pharyngeal pouches
Homo Jarzab
physiology
Amphibia Olivereau
Teleostei Olivereau
ultrastructure
Homo Groscurth
Insecta Hardie
Mammalia Groscurth

ENDODERM
see Embryology (experimental); Embryology (general & descriptive)

ENERGY (developmental)

Hydrozoa Kucias
Mammalia Kucias
Zeilmaker

ENTEROCHROMAFFIN CELLS
see Chromaffin cells

ENVIRONMENTAL FACTORS
see also Adaptation; Pollutants; specific physical agents

Amphibia Bondi
Briegleb
Neubert
Olivereau
Palladini
Woellwarth
Angiosp Gulluni
Harte
Phillips
Reuveni
Sanfo
Santoro
Wellensiek
Chondrostei Davidova
Dettlaff
Crustacea Besse
Castel
Legrand
Neumann
Gymnosp Denne
Insecta Briegleb
Delay
Fourche
Lees
Neubert
Neumann
Mammalia Degenhardt
Herman
Muller
Surani
Polychaeta Peaucellier
Reptilia Zusman
Teleostei Braum
Kamler
Zaitzev
Turbellaria Marinelli
Palladini
Tei

ENZYME(S)

activation
Aves Fedecka
Mammalia Petzoldt
aldolase
Mammalia Adamson
amidase
Crustacea Falugi
arginase
Aves Eliasson
asparaginase
Amphibia Gulluni
Santoro
ATPase
Hydrozoa Muller
blastocyst
Mammalia Denker
blastula
Echinoidea Vittorelli
bone
Mammalia Gaillard
carbamylphosphate syntase
Amphibia Charles
Lamers
carbohydrate
Aves Dutton
Homo Campbell
Dutton
Mammalia Campbell
Dutton
carbohydrate metabolism
Gastropoda Albanese
Bolognari
Zaccone
cell cycle
Mammalia Wijk

cholinesterase
Ascidiacea Falugi, Minganti
Aves Meiniel
Crustacea Raineri
Echinoidea Falugi, Minganti
Homo Navaratnam
Mammalia Adamson, Navaratnam
dehydrogenase
Aves Croisille, Rinaudo
Insecta Duke
Mammalia Adinolfi, Duke
detoxicating
Aves Dutton, Wishart
Homo Campbell, Dutton, Wishart
Mammalia Campbell, Dutton, Wishart
development
Homo Benson, Fensom
Hydrozoa Muller
differentiation
Angiosp Mader
Insecta Hansen, Rembold
Mammalia Parsons
digestive tract
Amphibia Lestage
DNA synthesis
Turbellaria Le Moigne
early embryo
Aves Vakaet
ecdysone metabolism
Insecta Koolman
egg
Gastropoda Albanese, Bolognari, Zaccone
embryo
Ascidiacea D'Anna
Insecta Duspiva
esterase
Aves Croisille
extracellular
Fungi Wood
eye lens
Aves Brahma, Starre
fetal in tumour
Mammalia Raftell
function
Homo Chalumeau
Mammalia Chalumeau
genetics
Amphibia Beetschen, Gasser, Jaylet
Homo Schloot
Insecta Leibenguth
hydroxylase
Aves Rinaudo
imaginal disc
Insecta Lafont
in explants
Mammalia Parsons
induction
Aves Eliasson
Homo Eliasson
intestinal tract
Mammalia Haffen
isoenzymes
Amphibia Guillet, Korochkin
Insecta Leibenguth, Steinmetz
Mammalia Adinolfi
kinases
Aves Eppenberger, Smith
Insecta Eppenberger
Mammalia Adamson
Teleostei Eppenberger
LDH
Amphibia Korochkin
lipid metabolism
Homo Rooy
Mammalia Rooy
lipogenic
Mammalia Mayer
liver
Mammalia Vetterlein
lung
Aves Dameron, Marin
Mammalia Dameron, Marin
lysosomal
Amphibia Steinert
Insecta Russo
lysozyme
Homo Adinolfi
mesenchyme
Aves Knese
Mammalia Knese
metabolic
Mammalia Walker
mitochondrial
Mammalia Mayer
morphogenesis
Mammalia Wegmann
multimolecular
Homo Chalumeau
Mammalia Chalumeau
odontoblastic
Mammalia Linde
oogenesis
Amphibia Grippo
oxidase
Insecta Duke
Mammalia Duke
pathology
Homo Chalumeau
Mammalia Chalumeau
peroxidase
Angiosp Mader
Insecta Jensen
phosphatase
Aves Rinaudo
Crustacea Raineri
photomorphogenesis
Angiosp Mohr
placenta
Homo Thiery
Mammalia Mohallal
polymerase
Eumycetoz Sauer
Polychaeta Marilley
protease
Mammalia Denker
Polychaeta Peaucellier
regulation
Insecta Hansen
related to plant hormones
Angiosp Przybyllok
repression
Homo Eliasson
reproduction
Hydrozoa Muller
ribonuclease
Rhizopoda Jantzen
RNAse
Aves Lanot
sexual morphogenesis
Fungi Wessels
silk gland
Insecta De Turenne
sporophore
Fungi Moore
steroid
Amphibia Dupuis
sulphatase
Aves Croisille
synthesis
Aves Fedecka
synthetase
Echinoidea De Petrocellis, Parisi
teratogenesis
Aves Lanot
transferase
Mammalia Wijk
uterus
Mammalia Eckstein
wound healing
Homo Makinen, Raekallio
Mammalia Makinen, Raekallio

EPIDERMIS

Amphibia Girard
Aves Mauger
Insecta Bulliere

EPIDIDYMIS

Aves Croisille, Gasc, Gumpel
Mammalia Blom

EPIPHYSIS
see Pineal organ

EPITHELIAL-MESENCHYMAL INTERACTIONS
see also Induction

Mammalia Abrunhosa, Kratochwil
culture in vitro
Mammalia Lawson
embryonic & cancer cells
Homo Propper
Mammalia Propper
ganglion
Aves Cochard

heterospecific
Aves Propper
Mammalia Propper
limb
Aves Gumpel
lung
Aves Becchetti
Calastrini
Carinci
Dameron
Marin
Stabellini
Mammalia Dameron
Marin
mammary gland
Homo Propper
Mammalia Propper
skin
Aves Becchetti
Carinci
Stabellini
skin & ganglia
Aves Saxod
Verna
Mammalia Saxod
tooth
Mammalia Karcher
Ruch
Thesleff
tumour
Vertebrata Tarin
wing
Aves Amprino
wound healing
Aves Thevenet

EPITHELIUM
Amphibia Hartwig
Aves Dameron
Marin
Middleton
Passaponti
Mammalia Andersen
Beck
Dameron
Fejerskov
Joseph
Mandysova
Marin
Middleton
Sevcenko

EQUIPMENT
see Methods

ERYTHROCYTES
see Blood

ERYTHROPOIESIS
see Hematopoiesis

EVOLUTION
see Phylogenesis

EXCRETORY SYSTEM
see also Kidney(s); Urogenital system
Amphibia Cambar
Gipouloux
Girard
Insecta Le Garff
Phoronidea Emig

EXTRACELLULAR MATRIX
see Matrix

EXTRA-EMBRYONIC MEMBRANES
see Embryonic membranes

EXTREMITIES
see Limb(s); Wing(s)

EYE(S)
see also Eye lens
Amphibia Lopashov
Arthropoda Wada
Mammalia Pilleri
autoradiography
Aves Janssen
Meller
Starre
Mammalia Meller
biochemistry
Amphibia Mitashov
Sviridov
Aves Janssen
Robert
Starre
Mammalia Robert
Vertebrata Mikhailov
cell adhesion
Aves Jones
cell differentiation
Aves Puelles
cell migration
Aves Puelles
cell transformation by retina
Amphibia Lopashov
cell type control & change
Amphibia Yamada
chorioid
Teleostei Ramsay
ciliary body
Amphibia Dabagian
Mammalia Akhabadze
Dabagian
Stroeva
conjunctiva
Aves Ambrosi
cornea
Aves Robert
Mammalia Robert
culture in vitro
Amphibia Modak
Yamada
Aves Janssen
Meller
Starre
Zacchei
Insecta Tesch
Mammalia Akhabadze
Meller
Stroeva
Zacchei
development
Mammalia Clavert
differentiation
Arachnida Munoz
Chondrostei Baburina
Mitashov
Stroeva
effect of drugs
Mammalia Raedler
endocrinology
Insecta Mouze
environmental factors
Teleostei Wise
enzymes
Amphibia Korochkin
Aves Rinaudo
experimental study
Aves Clayton
de Pomerai
Lucey
Pritchard
Insecta Such
Mammalia Clayton
de Pomerai
Lucey
Pritchard
eyelids
Homo Ross
genetics
Amphibia Vahs
Insecta Campos
Egelhaaf
Mammalia Osipov
Theiler
Truslove
Vakhrusheva
Teleostei Vahs
glia
Insecta Tesch
growth
Mammalia Panova
Stroeva
histo-& cytochemistry
Amphibia Vahs
Yamada
Mammalia Lierse
Teleostei Grun
Ramsay
Vahs
histology
Insecta Campos
immunochemistry
Vertebrata Mikhailov
induction
Amphibia Lopashov
Vahs
Teleostei Vahs
Vertebrata Mikhailov
involution
Arachnida Munoz
Mammalia Pilleri
Vertebrata Durand
iris
Amphibia Modak
Yamada
Mammalia Akhabadze
Stroeva
malformations
Mammalia Konyukhov
Lierse
metamorphosis
Insecta Egelhaaf
metaplasia
Amphibia Lopashov
Mammalia Lopashov
Sologub
Teleostei Sologub
molecular biology
Chondrostei Baburina
Mitashov
Stroeva
Mammalia Panova
Stroeva

morphogenesis
Insecta Mouze
morphology
Insecta Mouze
mutant
Insecta Bouthier
Mammalia Keith
nauplius
Crustacea Martin
nerve connections
Insecta Tesch
neural retina
Amphibia Korochkin
Mitashov
Sviridov
Aves Jones
Ruano
Chondrostei Baburina
Mitashov
Stroeva
optic cup
Vertebrata Mikhailov
photoreceptors
Teleostei Ramsay
Wise
Tunicata Georges
physiology
Insecta Egelhaaf
pigment
Insecta Bouthier
Colln
Egelhaaf
Mammalia Lopashov
Sologub
Teleostei Sologub
pigment epithelium
Amphibia Mitashov
Chondrostei Baburina
Mitashov
Stroeva
Mammalia Panova
Stroeva
regeneration
Amphibia Dabagian
Korochkin
Mitashov
Sviridov
Teleostei Campos
retina
Amphibia Dabagian
Lopashov
Aves Lindenmayer
Meller
Puelles
Zacchei
Insecta Lindenmayer
Mammalia Lierse
Lopashov
Meller
Raedler
Sievers
Sologub
Zacchei
Teleostei Grun
Pietzsch
Sologub
Vertebrata Mikhailov
sclera
Aves Ambrosi
Homo Pilleri
synapse & terminal
Teleostei Grun
teratogenesis
Mammalia Akhabadze
Stroeva
theoretical study
Aves Lindenmayer
Insecta Lindenmayer
ultrastructure
Amphibia Dabagian
Yamada
Arachnida Munoz
Aves Meller
Chondrostei Baburina
Mitashov
Stroeva
Insecta Such
Tesch
Mammalia Dabagian
Lierse
Meller
Sievers
Teleostei Grun
Pietzsch
Ramsay
Wise

EYE LENS
see also Regeneration (traumatic)

Aves Woerdeman
Mammalia Woerdeman
cell division
Mammalia McAvoy
crystallins
Amphibia Brahma
Aves Brahma
Janssen
Starre
Mammalia McAvoy
Malinina
Platonov
culture in vitro
Aves Starre
development
Aves Ruano
Wakely
differentiation
Clavert
Modak
Aves Doorenmaalen
Homo Doorenmaalen
enzymes
Aves Brahma
Starre
epithelium
Aves Appleby
Modak
experimental study
Aves Campbell
Clayton
de Pomerai
Jackson
Pritchard
Thomson
Truman
Williamson
Mammalia Campbell
Clayton
de Pomerai
Pritchard
Thomson
Truman
fiber cell
Aves Appleby
Modak
genetics
Mammalia Malinina
immunochemistry
Vertebrata Mikhailov
immunology
Aves Doorenmaalen
Starre
Homo Doorenmaalen
Mammalia Platonov
induction
Aves Doorenmaalen
Karkinen
Starre
Homo Doorenmaalen
inductive substance
Vertebrata Hoperskaya
malformations
Aves Wakely
metaplasia
Amphibia Lopashov
Vertebrata Hoperskaya
molecular biology
Modak
Aves Appleby
Modak

FACE
see Head

FALLOPIAN TUBE
see Oviduct

FAT
see Adipose tissues; Lipid(s)

FAT BODY
see Adipose tissues

FATE MAPS
see Embryology (experimental)

FATTY ACIDS
see Lipid(s)

FEATHER(S)

Aves Dhouailly
Groenendijk
Mauger
Sengel

FECUNDITY
see Fertility

FERTILITY (& sterility)

Crustacea Pihan
Homo Taillemite
Mammalia Swanson
Zeilmaker

FERTILIZATION
see also Membrane

Arachnida Feiertag
Pijnacker
Crustacea Zerbib
Insecta Pijnacker
Mammalia Edwards
Kassner
Modlinski

acrosome
Chondrost Ginsburg
activation
Ascidiacea Mansueto
Mammalia Surani
Whittingham
artificial
Polychaeta Cazaux
barrier
Angiosp Linskens
cell membrane
Ascidiacea O'Dell
Echinoidea O'Dell
cortical reaction
Chondrostei Ginsburg
Mammalia Opas
Teleostei Ginsburg
cytochemistry
Mammalia Flechon
cytology
Homo Baker
Mammalia Baker
effect of benzopyrene
Echinoidea Ceas
egg aging
Ascidiacea Cusimano
endocrinology
Homo Baker
Mammalia Baker
gamete fusion
Mammalia Austin
general study
Equisetoph Willemse
Gymnosp Willemse
Xanthophyc Willemse
hybridization
Amphibia Cusimano
in vitro
Homo Baker
Barnes
Zeilmaker
Mammalia Baker
Barnes
Fraser
Kaleta
microcinematography
Angiosp Erdelska
micropyle
Mammalia Szollosi
Teleostei Szollosi
molecular biology
Ascidiacea De Leo
physiology
Ascidiacea De Santis
Monroy
Rosati
Mammalia Komar
ultrastructure
Ascidiacea Villa
Mammalia Flechon
vitelline membrane
Mammalia Whittingham
zona pellucida
Mammalia Flechon
Szollosi
Teleostei Szollosi

FETAL FLUIDS
see Embryonic membranes

FETAL MEMBRANES
see Embryonic membranes

FETUS
see also Development (postembryonic, fetal)
Homo Taillemite
Mammalia Jacquot
Naaktgeboren

FIBROBLAST(S)
Aves Beug
Gotzos
Knese
McKenzie
Musy
Stenman
Vaheri
Wartiovaara
Homo Knese
Richter
Mammalia Knese
Van Gansen

FIN(S)
Teleostei Bouvet

FLAGELLA
Rhizopoda King

FLOWER(ING)
Angiosp Lindenmayer
Neville

FLUORESCENCE MICROSCOPY
see also Immunology

FLUORINE
see Chemical Elements

FOLLICLE (egg-)
see Ovary

FOLLICLE CELLS
see Oogenesis

FREE-MARTINS
Aves Lutz
Mammalia Colenbrander
Jost

FRUIT(ING)
Angiosp Bragt
Ryczkowski

GALL BLADDER
see Liver

GAMETES (& gametogenesis)
see also Germ cells; Oogenesis; Spermatogenesis etc.
Sporozoa Sinden
ageing
Mammalia Fraser
biochemistry
Mammalia Johnson
effect of agents
Mammalia Kaufman
endocrinology
Oligochaeta Lattaud
Polychaeta Durchon
Pfannenstiel
gametogenesis
Angiosp Vannereau
Arachnida Mikulska
Chlorophyc Koop
Equisetoph Willemse
Gastropoda Nowakowna
Sembrat
Gymnosp Willemse
Tardigrada Bertolani
Teleostei Koshelev
Xanthophyc Willemse
genetics
Homo Beatty
Mammalia Beatty
inhibition of protein synth.
Oligochaeta Lattaud
irradiation
Chondrostei Chmilevsky
Faleeva
Gureeva
Persov
Sakun
Zubova
Teleostei Chmilevsky
Faleeva
Gureeva
Persov
Sakun
Zubova

GANGLION (GANGLIA)
Amphibia Baker
Roberts
Aves Ambrosi
Cochard
Ebendal
Hedlund
Lelievre
Mitolo
Pannese
Roncali
Verna
Homo Serrantino
Mammalia Baker
Cochard
Donkelaar
Druga
Navaratnam
Teleostei Benedetti

GASTRULA(TION)
Amphibia Johnen
Lohmann
Lopashov
Peters
Aves Leikola
Insecta Koscielska
Teleostei Tumanishvili

GENE(S)
see also Genetics; Mutants
action
Angiosp Harte
Insecta Ashburner
Egelhaaf

activation
MacLean
Amphibia Lohmann
Insecta Ish
Leenders
Maehr
activity
Amphibia Vahs
Fungi Vries
Zantinge
Insecta Beyse
Leibenguth
Seydewitz
Traut
Mammalia Monk
Teleostei Vahs
amplification
Amphibia Ficq
Labrousse
Lohmann
Insecta Kunz
Schafer
control of early development
Gastropoda Arnolds
dosage
Amphibia Cayrol
Insecta Bernard
expression
Amphibia Cayrol
Collenot
Flavin
Gounon
Gurdon
Aves Bogenmann
Knochel
Crustacea Kondo
Insecta Leibenguth
Scheller
Mammalia Bogenmann
Goswami
function
Insecta Lezzi
globin
Amphibia Flavin
Aves Knochel
Homo Heizmann
lethal
Amphibia Collenot
Gounon
localisation & suppression
Insecta Kubli
physiology
Insecta Glatzer
Hess
Johannisson
Schafer
primary products
Insecta Lubsen
regulation
Crustacea Kondo
repression
MacLean
RNA
Aves Wylie

GENETICS (developmental)
see also specific aspects: Cell heredity; Chromosomes; Genes; Hybrids; Mutants; Nucleus etc.

Fungi Zonneveld
Homo Testa
Insecta Korochkin
Woyke
Mammalia Csaba
Herman
Lyon
Muller
Protozoa Csaba
Turbellaria Csaba
activ. of parental genomes
Szollosi
allophenes
Amphibia Boucaut
brain
Mammalia Osipov
Vakhrusheva
chloroplast
Euglenophyc Nigon
clonal analysis
Insecta Campos
determined state
Insecta Bernard
differentiation
Mammalia Konyukhov
Sazhina
effect of environm. factors
Angiosp Wellensiek
effect of paternal genome
Szollosi
effect of weightlessness
Insecta Briegleb
Neubert
enzymes
Amphibia Beetschen
Gasser
Jaylet
Homo Schloot
Insecta Duke
Leibenguth
Steinmetz
Mammalia Duke
epigenetics
Lakshmi
Sherbet
Insecta Duke
Mammalia Duke
eye
Insecta Campos
Mammalia Osipov
Theiler
Vakhrusheva
eye lens
Mammalia Malinina
eye pigments
Insecta Egelhaaf
gametes
Homo Beatty
Mammalia Beatty
gene control
Insecta Bulliere
genotype
Mammalia McLaren
gynogenesis
Amphibia Ferrier
Jaylet
hemoglobin
Homo Godet
Trabuchet
heterosis
Mammalia Krzanowska
imaginal disc
Insecta Garcia
lethal factor
Insecta Steinmetz
limb
Mammalia Osipov
Vakhrusheva
liver proteins
Mammalia Goswami
mapping
Insecta Bernard
maternal effect
Amphibia Beetschen
Fernandez
morphogen. field inversion
Ciliata Jerka
mosaics
Amphibia Boucaut
Insecta Janning
Mammalia Degenhardt
Deol
muscle
Aves Knize
Knizetova
Mammalia Knize
Knizetova
neoplasm
Insecta Gateff
nervous system
Insecta Ferrus
Nematoda Brenner
pattern formation
Insecta Kroeger
pleiotropy
Insecta Bulyzhenkov
Ivanov
Kaurov
Mglinetz
proliferation
Mammalia Konyukhov
Sazhina
protein
Amphibia Beetschen
Gasser
Jaylet
regulation
Insecta Glatzer
Hess
Johannisson
Schafer
selection
Insecta Vreezen
sex determination
Insecta Nöthiger
sexual development
Homo Tudose
somatic cell
Insecta Ripoll
vertebral column
Mammalia Theiler

GENITAL TRACT
see also Reproductive system; Urogenital system

Aves Gasc
Maraud
Rashedi
Stoll
Gastropoda Bergerard
Insecta Chauvin
Gallois
Mammalia Grignon
Hatier
Kuhnel
asymmetry
Aves Lutz
culture in vitro
Aves Lutz
Homo Zaayer
Mammalia Glenister
Zaayer

endocrinology
Homo Zaayer
Mammalia Brinkmann
Glenister
Zaayer
glands
Mammalia Blom
histochemistry
Mammalia Gulamhusein
pathology
Mammalia Blom

GENITALIA
see Reproductive system

GERM CELLS (general)
see also Gametes

Aves Dubois
age
Mammalia Komar
development
Amphibia Gipouloux
differentiation
Aves Rogulska
Mammalia Burgoyne
Ozdzenski
Rogulska
effect of chemicals
Aves Bruel
effect of hormones
Polychaeta Bertout
experimental study
Aves Didier
general study
Aves Fargeix
Reptilia Hubert
histo- & cytochemistry
Mammalia Weakly
interact. with somatic cells
Insecta Cavallin
irradiated
Mammalia Franchi
irradiation
Amphibia Di Grande
movement
Aves Cuminge
Dubois
origin
Insecta Cavallin
retrotransform. from tumour
Mammalia Lazard
tumours
Mammalia Lazard
ultrastructure
Amphibia Cambar
Homo Wartenberg
Invertebrata Afzelius
Mammalia Franchi
Wartenberg
Weakly

GERM CELLS (primordial)

biochemistry
Insecta Graziosi
cytology
Insecta Ribbert
determination
Insecta Graziosi
differentiation
Amphibia Wylie
Ascidiacea Sabbadin
Thysanura Jonczy
Klag
general study
Amphibia Capuron
Newth
Aves Rogulska
genetics
Insecta Glatzer
Hess
Johannisson
Schafer
migration
Amphibia Michael
origin
Amphibia Michael
Ascidiacea Sabbadin
Echinoderm Kasyanov
Insecta Tamarelle
Mollusca Kasyanov
Sabelli
Polychaeta Di Grande
Sabelli
Scaphopoda Timmermans
Teleostei Timmermans
Vertebrata Nieuwkoop
phylogenesis
Vertebrata Nieuwkoop
relation with somatic cells
Aves Reynaud
ultrastructure
Insecta Tamarelle

GERM LAYERS
see Embryology (experimental); Embryology (general & descriptive)

GERMINAL VESICLE
see Nucleus

GERMINATION
see Seed; Spore

GESTATION
see Pregnancy

GILL(S)

Teleostei Ramsay
Yacob

GLAND(S) (endocrine)
see specific endocrine glands; Endocrine organs

GLAND(S) (exocrine)
see also specific glands; specific organs; Hatching

Aves Bride
Gomot
Gastropoda Vela
Insecta Barbier

GLUCOSE
see Carbohydrate(s)

GLYCOGEN
see Carbohydrate(s)

GONAD(S)
see also Ovary; Testis

antimüllerian factor
Mammalia Vilanova
biochemistry
Aves Cuminge
Dubois
chromosome
Gastropoda Bottke
comparative study
Mammalia Harrison
culture in vitro
Amphibia Gardenghi
Zaccanti
Aves Wolff
Gastropoda Grygon
cytogenetics
Amphibia Zaborski
development
Mammalia Jost
differentiation
Aves Rogulska
Wolff
Lamellibr Lucas
Mammalia Buehr
Ozdzenski
Rogulska
effect of hormones
Aves Scheib
endocrinology
Aves Chouraqui
Gasc
Weniger
Mammalia Chouraqui
Weniger
experimental study
Amphibia Vannini
Aves Didier
gonadogenesis
Amphibia Tognato
Aves Fargeix
histochemistry
Mammalia Bielanska
hybrids
Amphibia Mancino
immunology
Amphibia Zaborski
interactions soma-germen
Insecta Cavallin
interstitial cells
Aves Rogulska
Mammalia Ozdzenski
Rogulska
sterile
Amphibia
Di Grande
steroid synthesis
Aves Scheib
ultrastructure
Mammalia Bielanska

GRADIENTS
see also Symmetry

animal-vegetal
Echinoidea Gustafson
Immers
organogenesis
Chondrostei Dragomirov
orientation
Aves Lutz
polarity
Gabrion
Echinoidea Czihak
polarity reversal
Insecta Bownes

GRAFT REACTIONS
see Immunology; Transplantation

GRAFTING
see Transplantation

GRANULOSA CELLS
see Ovary

GROWTH
see also Growth factors; specific organs, etc.

allometry
Crustacea Mocquard
cartilage
Mammalia Kvinnsland
compensatory
Mammalia Babayeva
Müller
embryo
Crustacea Bettanin
Della Croce
endocrinology
Crustacea Mocquard
environmental factors
Crustacea Neumann
Insecta Neumann
factors
Turbellaria Baguna
fetal
Mammalia Brun
immunology
Mammalia Babayeva
inhibition in dense popul.
Amphibia Sturdee
Teleostei Sturdee
larva
Amphibia Fox
nutrition
Lamellibr Le Roux
photomorphogenesis
Angiosp Wagner
physiology
Mammalia Huber
postembryonic
Mammalia Huber
postnatal
Mammalia Stanier
prenatal
Mammalia Lansdown
Sterba
rate
Mammalia Wijk
regulation
Mammalia Desser
Nadal
Sidorova
rhythm in morphogenesis
Hydrozoa Beloussov
statistics
Crustacea Mocquard
theoretical study
Johnson
Mitolo
Zotin
Crustacea Mocquard
tumour
Mammalia Evans

GROWTH FACTORS

Homo Wolff

GUANOPHORES
see Chromatophore(s)

GYNOGENESIS
see Genetics

HAIR(S)

Homo Cerimele
Serri
Insecta Ribbert
Mammalia McLaren

HAPLOIDY

Amphibia Hamilton
Angiosp Heszky
Insecta Woyke

HATCHING

Amphibia Denuce
Ascidiacea Denuce
Aves Dawes
Vince
Decapoda Williamson
Insecta Woyke
Nematoda Wyss
Teleostei Denuce
Hagenmaier

HEAD

Amphibia Brandle
Jongh
Woellwarth
Aves Keith
Mircov
Schowing
Gastropoda Verdonk
Homo Ross
Wilde
Insecta Farnesi
Rogueda
Schoeller
Mammalia Bugge
Keith
Knudsen
Kvinnsland
Morriss
Schowing
Wilde
Turbellaria Palladini
Vertebrata Presley

HEART (& great vessels)

aorta
Aves Robert
Mammalia Moczar
Robert
aortic arches
Aves Fischer
autoradiography
Mammalia Perissel
biochemistry
Aves Robert
Insecta Jensen
Mammalia Moczar
Robert
cardiac jelly
Aves Hurle
cell cycle
Amphibia Bereiter
cell interactions
Aves Los
Roest
conducting system
Aves Vassall
coronary arteries
Mammalia Schiebler
culture in vitro
Amphibia Bride
Gomot
Aves McKenzie
Mammalia Charbonne
Malet
Moczar
Perissel
development
Amphibia Bride
Gomot
differentiation
Aves McKenzie
effect of nervous system
Mammalia Chapron
endocard
Aves Pexieder
enzymes
Aves Rinaudo
experimental study
Aves Aranega
extracellular matrix
Mammalia Heine
growth
Aves McKenzie
histo- & cytochemistry
Aves Laane
Los
Roest
Mammalia Charbonne
Laane
Los
Malet
Perissel
Roest
innervation
Homo Navaratnam
Mammalia Navaratnam
irradiation
Aves Fischer
malformations
Homo Alvarez
Mammalia Nie
Wensing
metamorphosis
Insecta Jensen
morphogenesis
Aves Pexieder
Homo Garcia
Mammalia Charbonne
Malet
Perissel
necrosis
Aves Hurle
Pexieder
Homo Pexieder
Mammalia Pexieder
perinatal
Homo Alvarez
physiology
Aves Laane
Los
Pexieder
Roest
Homo Navaratnam
Mammalia Laane
Los
Navaratnam
Roest

teratogenesis
Aves — Hurle, Laane, Los, Pexieder, Roest
Mammalia — Laane, Los, Pexieder, Roest
ultrastructure
Aves — Hurle, Laane, Los, Pexieder, Roest
Insecta — Jensen
Mammalia — Laane, Los, Roest
vena cava
Homo — Larde

HEMATOPOIESIS
see also Liver
Amphibia — Deparis
Reptilia — Vasse
comparative study
Mammalia — Mazhuga
Homo — Mazhuga
culture in vitro
Amphibia — Deparis, Duprat, Flavin
effect of virus
Mammalia — Both
erythroblast
Aves — Tiedemann
erythrocyte stasis
Aves — Dyson
erythropoiesis
Amphibia — Salvatorelli
Aves — Beaupain, Dieterlen, Martin, Modak, Salvatorelli
Mammalia — Salvatorelli
gene transcription
Aves — Scherrer, Therwath
hemoglobin switch
Amphibia — Deparis, Duprat, Flavin
liver
Mammalia — Billat, Jacquot, Nagel
metamorphosis
Amphibia — Salvatorelli
molecular biology
Aves — Desveaux, Gazaryan, Knochel, Modak, Tiedemann
stem cell
Aves — Dieterlen, Martin
teratocarcinoma
Mammalia — Cudennec

transplantation
Aves — Gerard, Kohler
ultrastructure
Homo — Hoyes

HEMOGLOBIN
see Blood

HEMOLYMPH
Gastropoda — Jones
Insecta — Papillon

HENSEN'S NODE
see Primitive streak

HEREDITY
see Genetics

HERMAPHRODITISM
Crustacea — Juchault
Gastropoda — Andre
Hydrozoa — Vannini
Oligochaeta — Andre, Relexans
Polychaeta — Vannini
Turbellaria — Vannini

HETEROPLOIDY
Homo — Beatty, Polani
Mammalia — Beatty, Polani, Snow

HETEROSIS
see Genetics

HISTOBLAST
Insecta — Bautz

HISTONE(S)
Amphibia — Charles, Destree
Echinoidea — Cognetti, Spinelli
Rhizopoda — Jantzen
Turbellaria — Torok

HISTORY OF EMBRYOLOGY
meiosis
Animalia — Vassetzky

HOMEOSIS
see Mutants
see also Regeneration (traumatic)

HOMOGENATES
see Tissue(s)

HOMOLOGOUS INHIBITION
see Tissue(s)

HORMONE(S) (animal)
see also specific hormones; Chalones; Neurotransmitters; Prostaglandins; Steroids
Mammalia — Eckstein
Polychaeta — Hofmann
androgenic
Crustacea — Meusy
birth
Mammalia — Steven
brain hormone
Polychaeta — Dhainaut
calcitonin
Homo — Jarzab
Mammalia — Garel
connection hypoph.-hypothal.
Aves — Harrison
Mammalia — Harrison
control of glycogen in liver
Mammalia — Jost
control of pigmentation
Insecta — Bouthier
development
Insecta — Lafont
eff. of hypothal. on gonadotr.
Teleostei — Chambolle
effect of temperature
Insecta — Papillon
effect on bone
Aves — Nijweide, Thesingh
Mammalia — Gaillard
effect of carcinogenesis
Mammalia — Elbling
effect on cartilage
Mammalia — Burger
effect on development
Aves — Lakshmi, Sherbet
Cephalop — Buckley
Mammalia — Wishart
effect on devel. in vitro
Mammalia — Buckley
effect on diapause
Mammalia — Baevsky
effect of differentiation
Insecta — Bulliere
effect on DNA transcr. & transl.
Mammalia — Goswami
effect on early development
Homo — Baker
Mammalia — Baker, Beier, Kuhnel
effect on egg
Amphibia — Aisenstadt, Doree, Guerrier, Skoblina
Asteroidea — Doree, Guerrier
Chondrostei — Aisenstadt, Skoblina
effect on embryo
Mammalia — Kaufman, Surani
effect on enzymes
Aves — Dutton
Homo — Dutton
Mammalia — Dutton

effect on eye
Insecta Mouze
effect on fertilization
Homo Baker
Mammalia Baker
effect on fetus
Mammalia Tuchmann
effect on gametogenesis
Mammalia Kaufman
Oligochaeta Lattaud
Polychaeta Durchon
Pfannenstiel
effect on gene transcription
Insecta Lezzi
effect on germ cells
Polychaeta Bertout
effect on gonads
Aves Chouraqui
Weniger
Chondrostei Davidova
Dettlaff
Mammalia Chouraqui
Peters
Weniger
effect on growth
Crustacea Mocquard
Mammalia Stanier
effect on hypothalamus
Mammalia Mestres
effect on imaginal disc
Insecta Blais
Egberts
effect on implantation
Mammalia Denker
effect on mammary gland
Mammalia Bietry
effect on mesenchyme
Mammalia Knese
effect on metabolism
Mammalia Garel
effect on metamorphosis
Amphibia Guardabassi
Hanke
Torok
Insecta Mauchamp
Vijverberg
Polychaeta Durchon
effect on moulting
Crustacea Martin
Mocquard
Soyez
effect on nervous system
Mammalia Baumgarten
effect on oogenesis
Amphibia Colombo
Gardenghi
Zaccanti
Crustacea Charniaux
effect on parturition
Homo Gennser
effect on pigmentation
Aves Groenendijk
effect on placenta
Homo Baker
effect on polymorphism
Insecta Hardie
Lees
Rembold
effect on regeneration
Amphibia Sliwa
Srebro
Crustacea Noulin
Insecta Fournier
Rogueda
Mammalia Desser
Polychaeta Hofmann
effect on reproduction
Polychaeta Hauenschild
effect on reprod. system
Aves Protase
Mammalia Glenister
effect on reproductive tract
Homo Zaayer
Mammalia Zaayer
effect on sexual cycle
Crustacea Besse
effect on sexual development
Crustacea Juchault
Martin
Payen
effect on sex differ.
Aves Lutz
Reyss
Crustacea Touir
Homo Tudose
Insecta Hartmann
Richard
Mammalia Colenbrander
Swanson
Oligochaeta Lattaud
Polychaeta Hauenschild
effect on skin
Amphibia Hanke
Mammalia Hanke
effect on spermatogenesis
Crustacea Payen
effect on teratogenesis
Mammalia Elbling
effect on thyroid
Amphibia Schultheiss
effect on transcription
Insecta Scheller
embryonic testis
Aves Weniger
erythropoietin
Aves Salvatorelli
fetus
Mammalia Jacquot
FSH
Aves Lakshmi
Sherbet
Mammalia Peters
gonadotropin
Amphibia Aisenstadt
Skoblina
Aves Protase
Chondrostei Aisenstadt
Skoblina
Mammalia Brinkmann
Teleostei Skoblina
hypothalamic factors
Amphibia Campantico
Guastalla
interact. hypophysis-adrenal
Homo Gennser
Mammalia Klepac
Milkovic
Paunovic
Peruzovic
interaction with nerves
Homo Boer
Dogterom
Leeuwen
Swaab
Mammalia Boer
Dogterom
Leeuwen
Swaab
juvenile
Insecta Rembold
Vijverberg
kinin
Mammalia Choroszewska
LDH
Homo Serman
perinatal
Homo Campbell
Mammalia Campbell
Jost
physiology
Amphibia Schultheiss
pituitary
Mammalia Baumgarten
prolactin
Amphibia Guardabassi
Mammalia France
PTH
Mammalia Burger
Garel
regeneration
Turbellaria Franquinet
rel. embryo - corpus luteum
Mammalia Torres
role in regeneration
Mammalia Craciun
Preda
Protase
sex
Mammalia Swanson
STH
Homo Malaprade
vasopressin
Mammalia France
viviparity
Reptilia Wilson

HORMONES (plant)

Angiosp Alpi
Amer
Bragt
Phillips
Pretova
Przybyllok
Street
Wellensiek
Musci Simola

HORN(S)

Artiodactyla Hartwig

HYBRID(S)
see also Cell heredity

Amphibia Bucci
Cusimano
Mancino
Ragghianti
Ascidiacea Farinella
Aves Deray
Gomot
Lutz
Marchand
Insecta Nöthiger

HYPERPLASIA
see Growth

HYPERTROPHY
see Growth

HYPOPHYSIS

Mammalia Mestres
adenohypophysis
Amphibia Pehlemann
Aves Franco
Mammalia Jeanvoine
culture in vitro
Homo Baker
Gyevai
Mammalia Baker
Young
cytology
Amphibia Andrieux
development
Aves Guedenet
Homo Baker
Mammalia Baker
Guedenet
function
Amphibia Pehlemann
Aves Grignon
Homo Baker
Gyevai
Malaprade
Stark
Mammalia Baker
Grignon
Stark
histochemistry
Mammalia Klepac
Milkovic
Paunovic
Peruzovic
histogenesis
Aves Jeanvoine
Mammalia Jeanvoine
hybrid
Aves Gomot
Marchand
physiology
Aves Gomot
Marchand
relation to hypothalamus
Homo Stark
Mammalia Stark
ultrastructure
Amphibia Andrieux
Pehlemann
Homo Gyévai
Mammalia Liwska
Young

HYPOXIA
see Respiration

IMAGINAL DISCS

autoradiography
Insecta Vijverberg
biochemistry
Insecta Blais
Lafont
Vijverberg
cell lineage
Insecta Steiner
compartment
Insecta Wilcox
culture in vitro
Insecta Dewes
Garcia
Mandaron
Zust
determination
Insecta Dubendorfer
Gehring
Ivanov
Mglinetz
Schedl
Schoeller
Schupbach
Zust
development
Insecta Gateff
Ransom
Robertson
differentiation
Insecta Dewes
Egberts
Gehring
Guillermet
Lafont
Mandaron
Ransom
endocrinology
Insecta Blais
Egberts
Mandaron
Mauchamp
Vijverberg
enzymes
Insecta Lafont
evagination
Insecta Guillermet
Mandaron
experimental study
Insecta Garcia
genetics
Insecta Ferrus
Garcia
Morata
Ripoll
Santamaria
Simpson
genital
Insecta Schupbach
histochemistry
Insecta Sprey
homeosis
Insecta Stocker
microcinematography
Insecta Madaron
mitoses
Insecta Vijverberg
molecular biology
Insecta Egberts
Mandaron
Mischke
Tarroux
neoplasm
Insecta Gateff
nerve connections
Insecta Stocker
pattern formation
Insecta Nubler
Sprey
pattern form. after disaggr.
Insecta Kaurov
regeneration
Insecta Bownes
Dewes
theoretical study
Ransom
ultrastructure
Insecta Blais
Glinz
Mandaron

IMMUNOCHEMISTRY

Acrasiales Gerisch
Amphibia Brahma
Chalumeau
Deparis
Duprat
Flavin
Giorgi
Ragghianti
Aves Campbell
Clayton
Croisille
Doorenmaalen
Pritchard
Truman
Crustacea Charniaux
Junera
Meusy
Homo Adinolfi
Chalumeau
Doorenmaalen
Mammalia Bertini
Campbell
Chalumeau
Clayton
Comoglio
Prat
Pritchard
Raftell
Tarone
Truman
Oligochaeta Marcel
Vertebrata Clayton
Mikhailov

IMMUNOLOGY (developm.)
see also Self-recognition

Mammalia Binns
allograft rejection
Mammalia Steele
antibody
Mammalia Johnson
antibody absorption
Mammalia Morris
antibody-forming cells
Aves Preda
Rusu
antibody response
Teleostei Desvaux
antigen
Aves Blanchet
Stenman
Vaheri
Wartiovaara
Homo Rousseau
Mammalia Johnson
athymic animal
Mammalia Pantelouris
cell surface
Mammalia Johnson
complement
Homo Adinolfi
development
Mammalia McLean
diabetes
Homo Mylvaganam
Solomon
Mammalia Mylvaganam
Solomon
early development
Aves Rostedt

embryo-maternal relation
Amphibia Badet
Chateaureynaud
Mammalia Chateaureynaud
McLean
enzymes
Mammalia Adinolfi
eye lens
Aves Clayton
dePomerai
Doorenmaalen
Pritchard
Starre
Homo Doorenmaalen
Mammalia Clayton
de Pomerai
Platonov
Pritchard
gonads
Amphibia Zaborski
graft response
Amphibia Horton
growth
Mammalia Babayeva
immune recognition
Porifera Evans
immune response
Amphibia Balls
Clothier
Horton
Homo Giannetti
Mammalia Pantelouris
Teleostei Muiswinkel
immunocompetence
Amphibia Manning
Mammalia Solomon
implantation
Mammalia Amoroso
incompatibility
Amphibia Girard
kidney
Homo Rousseau
maturation
Amphibia Manning
muscle
Insecta Bode
mutant
Insecta Graziosi
oocyte maturation
Teleostei Apekin
origin of immune cells
Teleostei Muiswinkel
pregnancy
Mammalia Bulmer
Peel
proteins
Echinoidea Westin
reproduction
Homo Billington
Dillon
Jenkinson
Searle
Sellens
Smith
Mammalia Billington
Dillon
Jenkinson
Searle
Sellens
Smith
temperature
Aves Preda
Rusu
transplantation
Amphibia Newth
yolk
Teleostei Heesen

IMPLANTATION

Homo Jiricka
Preslickova
Mammalia Denker
Glenister
Gulamhusein
Hinchliffe
Jiricka
Jirsova
McLaren
Madjerek
Marston
Monk
Preslickova
Strauss
Surani
Torres
Webb
Wide
Wilson

INDUCTION (embryonic)
see also Competence; Determination; Epithelial-mesenchymal interactions; Pattern formation; specific organs, etc.

anterior determinant
Insecta Kalthoff
biochemistry
Amphibia Wall
blastocyst
Aves Rostedt
bract
Insecta Zust
cartilage
Aves Strudel
cell affinity
Amphibia Grunz
cell membrane
Amphibia Grunz
eye
Vertebrata Mikhailov
eye lens
Aves Karkinen
Vertebrata Hoperskaya
gastrula & neurula
Amphibia Johnen
heterogeneous
Amphibia Johnen
Toivonen
Aves Rostedt
histo- & cytochemistry
Amphibia Tarin
Vahs
Aves Starre
Teleostei Vahs
mass effects
Amphibia Johnen
mesoderm
Amphibia Boterenbrood
Hara
Nieuwkoop
microcinematography
Amphibia Hara
Tarin
molecular aspects
Amphibia Sala
morphogenesis
Hydrozoa Muller
nervous system
Amphibia Kurrat
neural
Amphibia Sala
Tarin
Aves England
pharynx
Turbellaria Schilt
Stephan
primary
Amphibia Johnen
Tiedemann
Toivonen
Teleostei Tumanishvili
regeneration
Hydrozoa Muller
regional specificity
Amphibia Englander
retina in gastrula
Amphibia Lopashov
substances
Aves Starre
Echinoidea Horstadius
Immers
Lallier
Vertebrata Hoperskaya
teratogenesis
Aves Meiniel
time factor
Amphibia Johnen
ultrastructure
Amphibia Tarin
Vahs

INFECTIONS
see Bacteria; Virus
see also Pathology

INNERVATION
see specific organs, etc.

INSECTICIDES
see Pesticides

INSEMINATION
see Reproduction (sexual)

INSULIN

Aves Dyer

INTEGUMENT
see also Shell; Skin; Wound healing

Insecta Barbier
Bautz
Ribbert
Schupbach
Sekeris
Stephan
Zust

INTERSEXUALITY

Aves Scheib
Wolff
Crustacea Juchault
Legrand
Insecta Schupbach

INTERSTITIAL CELLS
Hydrozoa Fioroni

INTESTINAL TRACT

Amphibia Kujat
Lestage
Martin
Aves Duncker
Cephalopoda Fioroni
Mammalia Beck
Cobos
Galand
Haffen
Hemmings
Mandysova
Pleeging
Vegt

IODINE
see Chemical elements

IONS
see also Chemical elements

Amphibia Dick
Ascidiacea Mansueto
Aves Simkiss
Hydrozoa Muller
Insecta Beetz
Beyse
Lezzi
Seydewitz
Wuhrmann
Mammalia Bara
Bluemink
Laat
Moolenaar
Nelemans
Saag
Mollusca Geilenkirchen
Polychaeta Brachet

IRON
see Chemical elements

IRRADIATION
see also Ultraviolet irradiation; X-irradiation

background
Mammalia Whittingham
different types & doses
Amphibia Gallien
effect on bone & cartilage
Mammalia Nijweide
effect on nervous system
Mammalia Wender
gametes
Mammalia Franchi
limb
Mammalia Rajtova
regeneration
Turbellaria Chandebois
sensitivity
Amphibia Hamilton
skull
Mammalia Rajtova
teratogenesis
Mammalia Horvath
Roux

JAW(S)
see Skull

JOINT(S)
see Skeleton

KARYOTYPE
see Chromosome(s)

KIDNEY(S)

biochemistry
Mammalia Garcia
culture in vitro
Mammalia Lawson
development
Aves Christ
Croisille
Gumpel
Jacob
Homo Christ
Jacob
Moffat
Mammalia Moffat
differentiation
Homo Rousseau
enzymes
Aves Smith
epith. -mes. interact.
Mammalia Lawson
histo- & cytochemistry
Aves Russo
Mammalia Russo
immunology
Homo Rousseau
involution
Aves Croisille
Gasc
Gumpel
Russo
Mammalia Russo
juxtaglomerular cell
Aves Russo
Mammalia Russo
mesonephros
Amphibia Cambar
Aves Croisille
Gasc
Gumpel
Russo
Mammalia Russo
molecular biology
Aves Gasc
morphogenesis
Amphibia Cambar
Mammalia Lawson
nephroblastome
Homo Rousseau
pathology
Mammalia Gabriel
postnatal
Homo Moffat
Mammalia Moffat
pronephros
Amphibia Cambar
teratogenesis
Mammalia Garcia
tubules
Mammalia Ekblom
Lehtonen
Nordling
Salonen
Saxen
Wartiovaara

ultrastructure
Amphibia Cambar
Aves Russo
Gastropoda Giese
Mammalia Russo

LABYRINTH
see Static organ

LARVAL DEVELOPMENT
see Development (larval)

LARYNX
see Respiratory tract

LATERAL LINE SYSTEM

Chondrostei Dragomirov

LEAF
see also Apical dominance; Phyllotaxis

Angiosp Harte
Neville
Przybyllok
Sanfo
Woltz

LEUCOCYTES
see Blood

LIFE CYCLE(S)
see also Development (general)

Copepoda Lescher
Crustacea Castel

LIGHT
see also Environmental factors

Amphibia Briegleb
Mammalia Parsons
Musci Simola
Teleostei Grun
Ramsay
Wise

LIMB(S)
see also Regeneration (traumatic); Skeleton; Wing(s)

biochemistry
Amphibia Hinchliffe
Aves Hinchliffe
bud
Amphibia Sturdee
Aves Amprino
Ede
Kaprio
Kieny
Mauger
Pautou
Roncali
Reptilia Vasse
cell interactions
Amphibia Sturdee
chondrogenesis
Amphibia Hinchliffe
Aves Hinchliffe
culture in vitro
Aves Gumpel

development
Vertebrata Cihak
digits
Aves Pautou
dorso-ventrality
Aves Pautou
experimental study
Aves Amprino
Ede
Kieny
Roncali
Seichert
Insecta Fournier
foot
Aves Kieny
function
Amphibia Brändle
general study
Aves Lewis
genetics
Mammalia Osipov
Vakhrusheva
growth
Mammalia Shoro
hand
Mammalia Trnkova
histochemistry
Amphibia Lauthier
Tarin
histology
Mammalia Druga
innervation
Aves Camosso
Lewis
irradiation
Mammalia Rajtova
malformations
Homo Lenz
mesoderm
Aves Kieny
morphogenesis
Aves Kieny
Mammalia Bart
Desbiens
muscle
Aves Mauger
mutant
Amphibia Watson
necrosis
Aves Hinchliffe
pattern formation
Aves Wolpert
phylogenesis
Amphibia Hinchliffe
polarity
Aves Tickle
teratogenesis
Amphibia Lauthier
Aves Camosso
Roncali
Crustacea Noulin
Mammalia Druga
Shoro
theoretical study
Message
Aves Mitolo
tissue interactions
Aves Gumpel
transplantation
Amphibia Brändle
Tarin
ultrastructure
Amphibia Lauthier
Tarin
Aves Kaprio
Pautou
vascularization
Aves Roncali
Homo Mazhuga
Mrazkova
Mammalia Mazhuga

LIP
see Mouth

LIPID(S) (& fatty acids)
see also Adipose tissues

Aves Dameron
Marin
Homo Rooy
Mammalia Dameron
Lawrence
Marin
Pascaud
Rooy

LITHIUM
see Chemical elements

LIVER
see also Hematopoiesis; Regeneration (traum.)

autoradiography
Mammalia Lombard
amitosis
Amniota Vahs
bile
Homo Campbell
Mammalia Campbell
bile duct
Homo Becker
Gathmann
biochemistry
Aves Houssaint
cell cycle factors
Mammalia Lombard
cell proliferation
Mammalia Lombard
culture in vitro
Aves Houssaint
Mammalia Charbonne
Perissel
Virtanen
Wijk
development
Amphibia Spornitz
differentiation
Mammalia Virtanen
effect of neurotransmitter
Mammalia Gerzeli
embryo
Homo Becker
Gathmann
endocrinology
Mammalia Vetterlein
enzymes
Amphibia Charles
Lamers
Aves Croisille
Mammalia Vetterlein
Wijk
experimental study
Aves Houssaint
Le Douarin
Mammalia Houssaint
function
Mammalia Felix
Jacquot
Legrele
gall bladder
Mammalia France
glycogen
Mammalia Jost
growth decrease
Mammalia Nadal
hepatocyte
Mammalia Felix
Jacquot
Legrele
Nadal
Wijk
hepatoma
Mammalia Wijk
histo- & cytochemistry
Mammalia Charbonne
Perissel
malformations
Homo Becker
Gathmann
mitosis
Mammalia Nadal
molecular biology
Aves Tiedemann
Mammalia Mutolo
postnatal
Mammalia Gerzeli
Nadal
Turchini
sex differences
Mammalia Lombard
teratogenesis
Mammalia Nyitray
ultrastructure
Mammalia Charbonne
Perissel
Virtanen
Wartiovaara
yolk
Aves Carinci
Caruso
Evangelisti

LOCOMOTION
see Behaviour

LONGEVITY
Zotin

LUNG(S) (& air sacs, swimm bladder)

Aves Dameron
Desveaux
Marin
Mammalia Dameron
Foliguet
Marin
air sac
Aves Duncker
biochemistry
Aves Becchetti
breathing
Homo Gennser

bronchi
Aves Duncker
culture in vitro
Aves Calastrini, Carinci, Stabellini
enzymes
Aves Dameron, Marin
Mammalia Dameron, Marin
epith. -mesench. interact.
Aves Becchetti, Calastrini, Carinci, Stabellini
Mammalia Lawson
regeneration
Mammalia Romanova
surfactant
Romanova
ultrastructure
Aves Becchetti, Calastrini
vascularization
Aves Duncker

LYMPHATIC SYSTEM
see also Bursa of Fabricius; Spleen; Thymus

Amphibia Manning, Salvatorelli, Spornitz
Aves Curtis, Houssaint, Jotereau, Le Douarin
Homo Groscurth, Tondury
Mammalia Binns, Evans, Groscurth, Kistler, Pantelouris, Symons, Tondury
Vertebrata Russo

LYMPHOCYTES
see Lymphatic system

LYSOSOMES
see Subcellular components

MACROPHAGE SYSTEM

Mammalia Mazhuga

MAGNETIC FIELDS
see also Environmental factors

MALFORMATIONS
see also Mouth; Teratogenesis

Amphibia Fischer
Homo Nie
Mammalia Kleinebrecht, Nie
anencephaly
Homo Serrantino, Tuchmann
axial
Aves Lanot
brain
Aves Guirao
Homo Guirao
Mammalia Lierse
branchial region
Amniota Slipka
Homo Slipka
chromosome aberrations
Homo Testa, Tudose
Mammalia Cappannini, Tarkowski, Witkowska
cryptorchidism
Mammalia Frankenhuis, Straaten
culture in vitro
Mammalia Wrba
cytogenetics
Homo Czapska
development
Aves Peterka
Mammalia Peterka
dystrophy
Homo Parsons
ear
Mammalia Morriss
ectopic bone & cartilage
Mammalia Thorogood
embryonic death
Mammalia Kleinebrecht
embryonic membranes
Aves Jelinek
eye
Mammalia Lierse
eye lens
Aves Wakely
face
Mammalia Morriss
genetics
Mammalia Degenhardt
genetic counseling
Homo Pawlowitzki
genetic defect
Homo Pawlowitzki
heart
Artiodactyla Nie
Homo Alvarez
Mammalia Wensing
histology
Homo Kleinebrecht
hydrocephalus
Homo Woollam
Mammalia Woollam
limb
Aves Salzgeber
Homo Lenz
liver
Homo Becker, Gathmann
neural tube
Homo Shoro
Mammalia Morriss
placenta
Homo Lemtis
Mammalia Jelinek
prenatal diagnosis
Homo Schloot
situs inversus
Amphibia Woellwarth
skeleton
Homo Becker, Gathmann
syndromes
Homo Pawlowitzki
urogenital system
Mammalia Gabriel
vascular system
Homo Woollam
Mammalia Bugge, Knudsen, Woollam
vertebral column
Aves Strudel

MALPIGHIAN TUBULES
see Excretory system

MAMMARY GLAND

Homo Propper
Mammalia Bietry, Colard, Gomot, Kratochwill, Mayer, Paskin, Propper

MAST CELLS
see Bone marrow; Connective tissue

MATERNAL EFFECTS
see Genetics

MATERNAL INHERITANCE
see Genetics

MATHEMATICS
see Theoretical biology

MATRIX (extracellular)
see also Carbohydrates

Romanova
Amphibia Lofberg
Aves Strudel, Van Roelen
Mammalia Bradamante, Heine, Kostovic, Moczar, Svajger

MATURATION
see Egg(s)

MEIOSIS
see Egg(s)
see also Embryology (Plant); Oogenesis; Spermatogenesis

MELANIN
see Pigment(ation)
see also Melanophore(s)

MELANOPHORE(S)
see also Neural crest; Pigment

Amphibia Golichenkov
Teleostei Bereiter

MEMBRANE
see also Cell; Cell wall; Fertilization; Subcellular components

Acrasiales Gerisch
Amphibia Bluemink, Brachet, Ceas, Grunz, Guerrier, Moreau
Ascidiacea O'Dell
Asteroidea Moreau
Aves Blanchet, Clayton, de Pomerai, Pannese, Pritchard
Echinoderm Guerrier
Echinoidea O'Dell, Vittorelli
Gastropoda Wal
Hydrozoa Duspiva, Muller
Insecta Haget
Mammalia Bara, Bertini, Bisconte, Bluemink, Clayton, Comoglio, de Pomerai, Laat, Lawrence, Moolenaar, Nelemans, Prat, Pritchard, Saag, Surani, Tarone, Virtanen, Wartiovaara
Polychaeta Guerrier

MERISTEMS

Angiosp Bernard, Clowes

MEROGONES
see Genetics; Hybrid(s)

MESENCHYME

Aves Gumpel, Knese
Homo Knese
Mammalia Knese
Porifera Robert

MESODERM
see Embryology (experimental); Embryology (general & descriptive)

MESONEPHROS
see Kidney(s)

METABOLISM (general)
see also Energy; Respiration

bone cells
Aves Nijweide
carbohydrate
Fungi Hammond
culture in vitro
Mammalia Wrba
differentiation
Insecta Hansen
early stages
Amphibia Lovtrup
Aves McKenzie
egg
Gastropoda Geilenkirchen
embryo
Mollusca Geilenkirchen
energy
Amphibia Brachet
Insecta Duspiva, Fourche
enzymes
Mammalia Walker
functional differentiation
Mammalia Kaluza
morphogenesis
Echinoidea Ostroumova
Hydrozoa Ostroumova
Mammalia Wegmann
oogenesis
Mammalia Baker
organogenesis
Aves Thesingh
perinatal
Mammalia Garel
regeneration
Needham
Hepaticae Viell
sporophore
Fungi Moore
starvation
Turbellaria Pedersen

METALS
see Chemical elements

METAMORPHOSIS

Ascidiacea Patricolo
Cyclostom Baxter
Echinoidea Kruchkova
Ectoprocta D'Hondt
Gastropoda Fretter
Hymenopt Schmidt
Tunicata Georges
autoradiography
Porifera Efremova
biochemistry
Amphibia Abraham, Weber
Hydrozoa Muller
control
Invertebr Muller
differentiation
Amphibia Turner
effect of pesticides
Amphibia Marchal
endocrinology
Amphibia Guardabassi, Hanke, Schultheiss, Torok
Insecta Eeken
Polychaeta Durchon
enzymes
Insecta Russo
epidermal gland
Amphibia Girard
excretory system
Amphibia Cambar, Girard
Insecta Le Garff
experimental study
Echinoderm Herrmann
Phoronidea Herrmann, Siewing
eye
Insecta Egelhaaf
factors producing
Hydrozoa Müller
head
Amphibia Jongh
heart
Insecta Jensen
hematopoiesis
Amphibia Salvatorelli
hemoglobin switch
Amphibia Weber
histo- & cytochemistry
Actinozoa Doumenc
Amphibia Nowakowna, Sembrat
Insecta Gaudecker
histology
Gastropoda Thiriot
Porifera Efremova
involution
Amphibia Turner
Ascidiacea Burighel
Insecta Bautz, Russo
molecular biology
Amphibia Ficq
morphogenesis
Hydrozoa Muller
Scyphozoa Muller
muscle
Amphibia Jongh
Insecta Lehmann
neoteny
Amphibia Bertolani, Briegleb, Jurand
nervous system
Insecta Schurmann
partial
Amphibia Nowakowna, Sembrat
physiology
Amphibia Schultheiss
puparium
Insecta Eeken
role of cuticle
Insecta Barbier
role of epidermal gland
Insecta Barbier
salivary gland
Insecta Eeken
skin
Amphibia Clemen
subcellular components
Insecta Priester
tail
Amphibia Guardabassi
timing
Insecta Eeken
ultrastructure
Actinozoa Doumenc
Insecta Beinbrech, Gaudecker
Porifera Efremova

METANEPHROS
see Kidney(s)

METAPLASIA
Amphibia Lopashov
Aves Clayton
de Pomerai
Pritchard
Hydrozoa Schmid
Mammalia Lopashov
Sologub
Teleostei Sologub

METHODS (& equipment)
see also Rearing methods

MICROCINEMATOGRAPHY
Amphibia Hara
Lucey
Tarin
Angiosp Erdelska
Aves Lucey
Mauger
Menkes
Insecta Camenzind
Mandaron
Went
Mammalia Opas
Wijk
Nematoda Wyss

MINERALS
see Chemical elements

MITOCHONDRIA
see Subcellular components

MITOSIS
see also Amitosis; Antimitotic agents; Cell(s)-division; Cleavage; Growth factors

apparatus
ap Gwynn
autoradiography
Amphibia Brugal
biochemistry
ap Gwynn
Insecta Beetz
cell dynamics
Mammalia Hojager
chromosome
Amphibia Ragghianti
Gastropoda Bottke
cleavage
Crustacea Lassegues
control
Amphibia Balls
early development
Echinoderm Petzelt
effect of cytokinin
Doree
effect of hormones
Amphibia Giroud
endocrinology
Insecta Bart
endomitosis
Gastropoda Bottke
eye lens
Mammalia McAvoy
fibroblast in vitro
Mammalia Van Gansen
genetics
Mammalia Konyukhov
Sazhina
hepatocytes
Mammalia Lombard
hybrid
Amphibia Bucci
imaginal disc
Insecta Vijverberg
inhibition
Mammalia Nadal
kinetics
Amphibia Chibon
molecular biology
Amphibia Barsacchi
Batistoni
Nardi
multiplication rate
Aves Salamatina
Tumanishvili
Mammalia Salamatina
Tumanishvili
nervous system
Insecta Beetz
Mammalia Bisconte
pattern
Mammalia McAvoy
proliferation
Amphibia Brugal
Chibon
Giroud
Aves Amprino
Mammalia Bulmer
Konyukhov
Mazzucco
Peel
Sazhina
proliferation control
Aves Puri
Turner
proliferation in vitro
Aves Gotzos
Homo Gotzos
regeneration
Mammalia Timashkevich
regulation
Echinoderm Petzelt
relation with vascularization
Aves Roncali
theoretical study
Harte
tooth
Rodentia Karcher
Ruch

MONSTROSITIES
see Malformations

MORPHOGENESIS
see also Culture & preservation; Development; Embryology

Phasmida Bart
Porifera Boury
agents
Amphibia Grunz
Hydrozoa Muller
Oligochaeta Marcel
Scyphozoa Muller
asexual reproduction
Hydrozoa Polteva
autoradiography
Amphibia Ficq
axis
Aves Stephan
biochemistry
Echinoidea Backstrom
Turbellaria Torok
biophysics
Amphibia Beloussov
Aves Beloussov
cell interactions
Porifera Kemp
cellular basis
Aves Ede
Wolpert
Mammalia Ede
culture in vitro
Angiosp Heszky
early stages
Gastropoda Boon
endocrinology
Aves Lakshmi
Sherbet
enzymes
Fungi Moore
experimental study
Actinozoa Van Praet
Amphibia Selman
field
Ciliata Jerka
genetics
Insecta Egelhaaf
genetics & environm. factors
Angiosp Harte
growth rhythm
Hydrozoa Beloussov
inhibition
Turbellaria Torok
interact. with metabolism
Echinoidea Ostroumova
Hydrozoa Ostroumova
irradiation
Mollusca Labordus
limb
Aves Wolpert
molecular biology
Crustacea Kondo
Hydrozoa Muller
movement
Acrasiales Garrod
Amphibia Burgess
Aves Bellairs
Downie
England
Echinoidea Gustafson
Insecta Vollmar
Teleostei Haarlem
Vollmar
neural tube closure
Aves Jurand
Mammalia Jurand
physiology
Mammalia Wegmann
regeneration
Turbellaria Torok
role of cuticle
Insecta Barbier
role of egg shell
Insecta Barbier
role of epidermal gland
Insecta Barbier
role of membrane
Amphibia Guerrier
Echinoderm Guerrier
Polychaeta Guerrier

role of nerve tissue
Hydrozoa Muller
Scyphozoa Muller
starving animals
Turbellaria Tokin
ultrastructure
Amphibia Selman

MORPHOGENETIC FIELDS
see Embryology (experimental)
Regeneration (traumatic)

MORTALITY (embryonic, fetal)
see Pathology

MORULA
see Cleavage

MOSAICISM (genetical)
see Genetics

MOTILITY
see Behaviour; Cell(s)-movement; Morphogenesis

MOTOR END PLATES
see Nervous system

MOULT(ING)

Crustacea Blanchet
Martin
Mocquard
Soyez
Williamson
Insecta Jensen
Larink

MOUTH
see also Pharynx

cleft lip
Homo Limborgh
cleft palate
Mammalia Morgan
culture in vitro
Amphibia Capuron
experimental study
Amphibia Cusimano
induction
Amphibia Capuron
mast cell degranulation
Mammalia Luke
mucosa
Homo Murbach
Schroeder
mucosa endocrinology
Mammalia Luke
palate
Amphibia Clemen
Homo Harris
Wilde
Mammalia Andersen
Dostal
Fejerskov
Harris
Wilde
radula
Cephalop Meister
stereology
Homo Murbach
Schroeder
teratogenesis
Mammalia Lendon
tongue
Homo Choffel
Dollander
ultrastructure
Amphibia Clemen
Mammalia Morgan
wound healing
Mammalia Andersen
Fejerskov

MUCOPOLYSACCHARIDES
see Carbohydrate(s)

MULLERIAN DUCT

Aves Lutz
Groenendijk
Mammalia Vilanova

MULTIPLE BIRTHS
see Twins

MUSCLE(S)

absence in mutant
Insecta Stocker
actin
Ascidiacea Puccia
actomyosin
Aves Kemp
biochemistry
Aves Giacobini
Homo John
Mammalia John
Salmons
biophysics
Mammalia Parsons
Salmons
cell death
Homo Cullen
cell fusion
Aves Luger
Mammalia Luger
chromatin
Mammalia Bachmann
comparative study
Amphibia Muntz
culture in vitro
Message
Zacchei
Aves Caravatti
Douglas
Eppenberger
McKenzie
Perriard
Puri
Turner
Insecta Lang
Mammalia Eppenberger
Parsons
Perriard
Turner
cytology
Aves Knize
Knizetova
Mammalia Knize
Knizetova
development
Amphibia Grim
Muntz
Aves Grim
Homo Cihak
Dylevsky
Grim
Mammalia Trnkova
differentiation
Aves Chiquet
Luger
Mammalia Luger
dystrophy
Homo Cullen
Parsons
fast & slow
Mammalia Salmons
fibre
Mammalia Korneliussen
Teleostei Kozlowska
genetics
Aves Knize
Knizetova
Mammalia Knize
Knizetova
growth
Aves Douglas
Knize
Knizetova
Mammalia Knize
Knizetova
histochemistry
Amphibia Message
Aves Robecchi
Mammalia Message
innervation
Zacchei
Amphibia Kordylewski
Aves Landauer
Robecchi
Sisto
involution
Amphibia Muntz
limb
Aves Kieny
metamorphosis
Amphibia Jongh
Insecta Beinbrech
molecular biology
Jones
myoblast
Aves McKenzie
myofibril
Aves Eppenberger
Heizmann
Mammalia Heizmann
myogenesis
Amphibia Burgess
Kielbowna
Aves Hinrichsen
Insecta Bode
Mammalia Hinrichsen
neurogenic control
Aves Filogamo
origin
Aves Kieny
Mauger
origin & development
Aves Christ
Jacob
protein
Aves Caravatti
Pelloni
Perriard
Insecta Lehmann
Mammalia Perriard
Teleostei Perzanowska

regeneration
Homo Parsons
Mammalia Cullen
tendon
Aves Robecchi
tissue interactions
Aves McKenzie
ultrastructure
Amphibia Jongh
Muntz
Aves Douglas
Giacobini
Robecchi
Cephaloch Flood
Cyclostom Flood
Insecta Beinbrech
Mammalia Cullen
Jones

MUTAGENIC AGENTS

Amphibia Beetschen
Ferrier
Jaylet
Mammalia James

MUTANT(S)
see also Gene(s); Phenocopies

Aves Flint
Euglenophyc Nicolas
Mammalia Flint
Lyon
Papaioannou
achondroplastic
Mammalia Johnson
action
Mammalia Keith
affecting organisation
Insecta Bownes
albino
Amphibia Hoperskaya
MacMillan
Insecta Bouthier
antibiotic-negative
Bacteria Seddon
auditory organ
Mammalia Deol
Truslove
biochemistry
Insecta Kubli
Mammalia Johnson
brain
Mammalia Johnson
chloroplast
Euglenophyc Heizmann
curly tail
Mammalia Seller
differentiation
Insecta Breugel
differentiation in vitro
Angiosp Harte
enzymes
Insecta Fragoulis
eye
Mammalia Konyukhov
Truslove
eye lens
Aves Campbell
Clayton
de Pomerai
Pritchard
Truman
Mammalia Campbell
Clayton
de Pomerai
Pritchard
Truman
homoeotic
Insecta Ivanov
Lawrence
Mglinetz
Stocker
imaginal disc
Insecta Ferrus
Simpson
immunology
Insecta Graziosi
lampbrush chromosomes
Amphibia Loones
lethal
Gastropoda Arnolds
Insecta Ripoll
Schoeller
Scriba
limb
Amphibia Watson
Aves Hinchliffe
maternal effect
Insecta Nusslein
microphthalmic
Mammalia Keith
morphogenesis
Aves Ede
Mammalia Ede
neuroendocrinology
Mammalia Johnson
nude
Mammalia Fontaine
Pantelouris
Tondury
pattern formation
Insecta Nusslein
pigmentation
Mammalia Deol
scalloping
Insecta Santamaria
semi-lethal
Amphibia Beetschen
Fernandez
skeleton
Mammalia Bugrilova
Konyukhov
sporophore
Fungi Moore
t
Mammalia Lazard
temperature
Insecta Bulyzhenkov
Ivanov
Mglinetz
temperature-sensitive
Insecta Alleaume
testis
Mammalia Drews
ultrastructure
Mammalia Johnson
variegation
Mammalia Holt
white
Mammalia Keith

MUTATION
see Genetics

MYCETOME

Insecta Korner
Sander

MYELIN(IZATION)
see Central nervous system

MYOBLASTS
see Muscle(s)

MYOGENESIS
see Muscle(s)

MYOSIN
see Muscle(s)

MYOTOME
see Somite(s)

NASAL ORGAN
see Olfactory organ

NEMATOCYSTS

NEOPLASIA
see Tumours

NEOTENY
see Metamorphosis

NERVE(S)

comparative study
Amphibia Muntz
fibre
Mammalia Kaluza
metabolism
Mammalia Kaluza
regeneration
Mammalia Nie

NERVE CELLS

Augusti
Norrgren
Amphibia Baffoni
Lofberg
Roberts
Trevisan
Aves Ebendal
Meller
Welsum
Insecta Beetz
Mammalia Baker
Bisconte
Corner
Lierse
Meller
Parsons
Sievers
Vertebrata Baffoni

NERVOUS SYSTEM
see also specific components; Neurotransmitters; Synapse

Aves Zacchei
Collembola Tyszkiewicz
Mammalia Pilleri
Zacchei

adaptability
Homo Hodde
Uylings
Veltman
Mammalia Hodde
Uylings
Veltman
adaptation
Homo Boer
Dogterom
Leeuwen
Swaab
Mammalia Boer
Dogterom
Leeuwen
Swaab
angiogenesis
Aves Lanot
biochemistry
Homo Wender
Mammalia Cadilhac
Wender
biophysics
Amphibia Bondi
cell lineage
Nematoda Sulston
connection with eye
Insecta Tesch
culture in vitro
Jacobson
development
Insecta Gateff
Louvet
effect of chemicals
Amphibia Palladini
effect of drugs
Mammalia Muller
effect on asexual reprod.
Hydrozoa Vannini
Turbellaria Tognato
Vannini
effect on polymorphism
Insecta Hardie
effect on regeneration
Hydrozoa Vannini
Turbellaria Tognato
Vannini
effect on sex different.
Hydrozoa Vannini
Turbellaria Tognato
Vannini
effect on vascular system
Mammalia Chapron
endocrinology
Homo Boer
Dogterom
Leeuwen
Swaab
Mammalia Boer
Dogterom
Leeuwen
Swaab
enzymes
Homo Wender
Mammalia Wender
experimental study
Aves Drukker
Lanot
Mammalia Korochkin
factors for axon outgrowth
Jacobson
fetus
Homo Garcia
genetics
Insecta Ferrus
Nematoda Brenner
histo- & cytochemistry
Echinoidea Ryberg
Mammalia Korochkin
Wender
impulse conducting system
Echinoidea Ryberg
irradiation
Mammalia Wender
maturation
Amphibia Baker
Bakhuis
Corner
Romijn
Homo Boer
Dogterom
Leeuwen
Swaab
Mammalia Baker
Bakhuis
Boer
Corner
Dogterom
Leeuwen
Romijn
Swaab
metamorphosis
Tunicata Georges
monoaminergic system
Mammalia Cadilhac
morphology
Aves Drukker
motor end plate
Mammalia Korneliussen
muscular dystrophy
Mammalia Parsons
neoplasm
Insecta Gateff
neural tube
Vertebrata Hauser
neuronal specificity
Jacobson
Insecta Stocker
Vertebrata Horder
neurotaxis
Aves Mauger
Saxod
perineuronal material
Aves Strudel
peripheral
Homo Gamble
physiology
Mammalia Corner
Korochkin
regeneration
Annelida Boilly
Insecta Schurmann
Oligochaeta Marcel
retrogr. eff. of target organ
Mammalia Cochard
Schwann cell
Mammalia Parsons
skin
Aves Verna
ultrastructure
Aves Roda
Oligochaeta Marcel

NEURAL CREST

Amphibia Chibon
Lofberg
Macmillan
Wakita
Aves Hach
Harrebomee
Harrisson
Keith
Le Douarin
Lelievre
Teillet
Ziller
Mammalia Harrisson
Keith
Teleostei Rombout

NEURAL PLATE

Amphibia Beetschen
Woellwarth

NEURAL TUBE
see Central nervous system

NEURONS
see Nerve cells

NEUROSECRETION

Amphibia Sliwa
Srebro
Aves Strudel
Crustacea Herp
Martin
Mocquard
Soyez
Strolenberg
Hydrozoa Vannini
Insecta Hardie
Ramade
Mammalia Johnson
Oligochaeta Stagni
Teleostei Marini
Turbellaria Tognato
Vannini

NEUROTRANSMITTERS
see also Hormones

Aves Strudel
Crustacea Herp
Mammalia Drews
Polychaeta Coulon
acetylcholine
Ascidiacea Falugi
Minganti
Echinoidea Falugi
Gustafson
Minganti
choline acetylase
Aves Giacobini
cholinesterase
Aves Giacobini
cholinomimetic substance
Aves Landauer
control of regeneration
Actinozoa Lenicque
Turbellaria Lenicque

early development
Echinoidea Buznikov
Gustafson
Manukhin
Markova
Teplitz
egg symmetrisation
Amphibia Ubbels
GABA
Mammalia Rokyta
Záhlava
isoproterenol
Mammalia Gerzeli
monoamines
Aves Barbosa
Collin
Harrison
Meiniel
Crustacea Raineri
Echinoidea Gustafson
Toneby
Homo Navaratnam
Mammalia Baumgarten
Collin
Harrisson
Navaratnam
Sievers
pineal organ
Vertebrata Collin
regeneration
Turbellaria Franquinet
teratogenesis
Aves Meiniel

NEURULA(TION)

Amphibia Johnen
Lohmann
Peters

NITROGEN
see Chemical elements

NORMAL TABLES
see Embryology (general & descriptive)

NOTOCHORD

Aves Menkes
Strudel

NUCLEAR TRANSPLANTATION
see Nucleus

NUCLEIC ACID(S)
see also specific nucleic acids; Nucleotides (& nucleosides)

cell cycle
Amphibia Lohmann
determination
Insecta Kuthe
development
Amphibia Ragghianti
Insecta Duspiva
differentiation
Insecta Kuthe
Rembold
early stages
Amphibia Darnbrough
Habrova
Lohmann
Nedvidek
Aves McMaster
Modak
Wylie
Crustacea Hultin
Echinoidea Immers
egg
Amphibia Brachet
epidermis
Insecta Bulliere
experimental study
Amphibia Nedvidek
Romanovsky
Sladecek
hybridization
Amphibia Barsacchi
Batistoni
Nardi
imaginal disc
Insecta Lafont
mutants
Insecta Kubli
oogenesis
Amphibia Darnbrough
Ford
Habrova
Nedvidek
Aves Wylie
Insecta Duspiva
Russo
regeneration
Amphibia Mitashov

NUCLEO–CYTOPLASMIC INTERACTIONS

Amphibia Aimar
Gallien
Lopashov
Skoblina
Chlorophyc Koop
Schweiger
Chondrostei Skoblina
Gastropoda Meshcheryakov
Mammalia Balakier
Tarkowski
Teleostei Kostomarova
Skoblina

NUCLEOLUS
see Nucleus

NUCLEOTIDES (& nucleosides)

control of regeneration
Actinozoa Lenicque
Turbellaria Lenicque
cyclic
Acrasiales Gerisch
Konijn
Mato
Amphibia Puccia
Ascidiacea Durante
Echinoidea Backstrom
Vittorelli
Mammalia Bluemink
Laat
Moolenaar
Nelemans
Saag
Wijk
Polychaeta Coulon
Turbellaria Franquinet
development
Insecta Duspiva
others
Insecta Duke
teratogenesis
Mammalia Svejcar

NUCLEUS
see also Chromosomes; Nucleocytoplasmic interactions

Mollusca Bolognari
autoradiography
Amphibia Chibon
biophysics
Insecta Beyse
Seydewitz
control of RNA synthesis
Echinoidea Rinaldi
histo- & cytochemistry
Gastropoda Bolognari
Insecta Perkowska
macronucleus
Ciliata Schwartz
microcinematography
Amphibia Lucey
molecular biology
Amphibia Angelier
Muller
Van Gansen
Insecta Derksen
morphogenetic function
Amphibia Ignatjeva
Teleostei Ignatjeva
nucleolinus
Mollusca Bolognari
nucleolus
Amphibia Angelier
Gastropoda Kielbowna
Koscielski
Homo Martinek
Insecta Perkowska
Mammalia Martinek
Oligochaeta Kopec
oocyte
Insecta Perkowska
protein
Amphibia Yamada
transfer
Amphibia Aimar
Gallien
Lucey
Nedvidek
Romanovsky
Signoret
Sladecek
Insecta Santamaria
Schnetter
ultrastructure
Gastropoda Bolognari
Insecta Derksen

NUTRITION (embryonic, larval, etc)

Amphibia	Lestage
Cephalopoda	Fioroni
Crustacea	Williamson
Gastropoda	Fioroni
	Fretter
Insecta	Koscielska
	Le Garff
Lamellibr	Le Roux
	Lucas
Mammalia	Auroux
	Beck
	Tonge
Teleostei	Fioroni

OESOPHAGUS

Mammalia	Sevcenko

OESTROUS CYCLE
see Reproduction

OLFACTORY ORGAN

Homo	Harris
Mammalia	Harris
Teleostei	Bertmar

OOCYTE
see Egg(s)
see also Gamete(s)

OOGENESIS
see also Gametes; Vitellogenesis

Amphibia	Kress
	Spornitz
Arachnida	Feiertag
	Pijnacker
Collembola	Krzysztofowicz
Crustacea	Zerbib
Hydrozoa	Aisenstadt
Insecta	Gateff
	Matuszewski
	Pijnacker
	Romanowska
	Stebbings
Mammalia	Ullmann
Teleostei	Zaitzev
autoradiography	
Amphibia	Ficq
Gastropoda	Bottke
Insecta	Ogorzalek
Teleostei	Riehl
biochemistry	
Amphibia	Denis
	Mazabraud
	Wegnez
Echinoidea	Backstrom
	Cognetti
Gastropoda	Bottke
	Deri
Insecta	Duspiva
Polychaeta	Fischer
chromosomes	
Amphibia	Lacroix
Gastropoda	Mancino
comparative study	
Deuterostom	Colombera
cytology	
Insecta	Chauvin
	Russo
descriptive study	
Crustacea	Charniaux
early	
Insecta	Godula
endocrinology	
Amphibia	Gardenghi
	Zaccanti
Crustacea	Charniaux
Polychaeta	Dhainaut
environmental factors	
Insecta	Papillon
Teleostei	Zaitzev
follicles	
Hirudinea	Fischer
follicle cells	
Amphibia	Goncharov
Chondrostei	Goncharov
Gastropoda	Bottke
general study	
Polychaeta	Pfannenstiel
histo- & cytochemistry	
Ascidiacea	Dolcemascolo
	Gianguzza
	Mancuso
Cephaloch	Riehl
Hydrozoa	Stagni
Insecta	Bielanska
	Ogorzalek
	Russo
Mammalia	Bielanska
Teleostei	Riehl
involution	
Amphibia	Spornitz
irradiation	
Mammalia	Baker
meiosis	
Lamellibr	Vassetzky
metabolism	
Mammalia	Baker
molecular biology	
Amphibia	Darnbrough
	Denoulet
	Ficq
	Ford
	Grippo
	Habrova
	Moreau
	Nevidek
Aves	Wylie
Insecta	Kloc
nucleo-cytoplasmic relations	
Mammalia	Balakier
	Tarkowski
nucleolus	
Gastropoda	Kielbowna
	Koscielski
Oligochaeta	Kopec
nutritive cells	
Hirudinea	Fischer
parthenogenetic	
Crustacea	Sabelli
physiology	
Crustacea	Johannisson
size synchronization	
Polychaeta	Fischer
staging	
Cephaloch	Riehl
Teleostei	Riehl
steroids	
Teleostei	Colombo
tracer studies	
Aves	Callebaut
ultrastructure	
Amphibia	Habrova
	Jacob
	Nedvidek
Ascidiacea	Dolcemascolo
	Gianguzza
	Mancuso
Cephaloch	Riehl
Gastropoda	Bottke
	Deri
Hydrozoa	Stagni
Insecta	Bielanska
Mammalia	Baker
	Bielanska
Teleostei	Götting
	Riehl

OOPLASMIC SEGREGATION
see Egg(s)

ORGANIZATION
see Pattern formation

ORGANIZER
see Induction

ORGANOGENESIS
see also specific organs

	Message
Amphibia	Balls
Angiosp	Street
Ascidiacea	Burighel
Aves	Beaupain
Homo	Kistler
	Menkes
Mammalia	Kistler
	Skreb
	Sterba
	Wilde

OSMOREGULATION

Amphibia	Olivereau

OSSIFICATION
see Skeleton

OSTEOGENESIS
see Skeleton

OVARY
see also Gonad(s)

Mammalia	Wegmann
autoradiography	
Mammalia	Byskov
biochemistry	
Insecta	Mays
	Ribbert
culture in vitro	
Insecta	Camenzind
	Went
cytogenetics	
Insecta	Ribbert
cytology	
Mammalia	Lombard
development	
Homo	Peters
differentiation	
Mammalia	Weakly
endocrinology	
Chondrostei	Davidova
	Dettlaff

Homo Ludwig
Mammalia Kaufman
Lombard
Ludwig
Peters
follicle
Amphibia Goncharov
Aves Evans
Gabajeva
Gilbert
Perry
Chelonia Gabajeva
Chondrostei Davidova
Dettlaff
Goncharov
Cyclostom Gabajeva
Homo Ludwig
Webb
Insecta Mays
Ribbert
Lacertilia Gabajeva
Mammalia Ludwig
Peters
Webb
Teleostei Gabajeva
Riehl
function
Mammalia Byskov
granulosa cell dynamics
Mammalia Hojager
histo- & cytochemistry
Homo Ludwig
Mammalia Ludwig
Teleostei Riehl
interstitial cells
Homo Stegner
Mammalia Stegner
molecular biology
Insecta Nagl
nurse cells
Crustacea Johannisson
Insecta Ribbert
Russo
origin of somatic cells
Aves Callebaut
physiology
Amphibia Goncharov
Chondrostei Goncharov
polyovular follicle
Mammalia Ullmann
ultrastructure
Homo Stegner
Mammalia Byskov
Lombard
Stegner
Weakly
Teleostei Riehl
vascularization
Mammalia Byskov

OVIDUCT

Amphibia Girard
Homo Jirsova
Mammalia Jirsova

OVIPOSITION
see Egg(s)
see also Reproduction (sexual)

OVULATION
see Egg(s)

OVULE
see Embryology (plant)

OXYGEN
see Chemical elements; Environmental factors

PALATE
see Mouth

PANCREAS

Amphibia Lestage
Aves Beaupain
Drukker
Mammalia France
Hach
Lansdown
Marchal
Perrier

PARABIOSIS

Amphibia Brändle
Sala

PARASITISM

Insecta Koscielska
Papillon

PARATHYROID GLAND

Aves Thesingh

PARTHENOGENESIS (& Paedogenesis)

Arachnida Feiertag
Pijnacker
Cladocera Gaino
Crustacea Bettanin
Della Croce
Sabelli
Echinoidea Czihak
Insecta Camenzind
Pijnacker
Went
Mammalia Graham
Kaufman
Komar
Surani
Tardigrada Bertolani
Teleostei Czihak

PATHOLOGY (developmental)
see also Anomalies; Bacteria; Malformations; Teratogenesis; Toxins; Virus(es)

Homo Testa
Züccatosta
alcohol syndrome
Mammalia Steele
bone
Mammalia Nie
cyst
Aves Thesingh
diabetes
Homo Mylvaganam
Solomon
Mammalia Mercier
Mylvaganam
Solomon
Tuchmann
diagnosis
Homo Benson
enzymes
Homo Chalumeau
Mammalia Chalumeau
free radicals
Amphibia Melehova
gall stone
Mammalia France
heart
Mammalia Nie
heteroploidy
Homo Beatty
Mammalia Beatty
immunology
Homo Giannetti
pancreatitis
Mammalia Lansdown
placenta
Homo Becker
Jiricka
Mammalia Jiricka
prenatal
Aves Menkes
salt wasting syndrome
Mammalia Gabriel
spermatogenesis
Homo Posinovec
Mammalia Bernocchi
Fraschini
Manfredi
Porcelli
Redi
Scherini
thymus
Homo Rembiszewska
Roszczynska
trophoblast
Homo Panigel
ultrastructure
Homo Kistler
Mammalia Kistler
virus-induced
Homo Kistler
Mammalia Kistler

PATTERN FORMATION
see also Induction

Ciliata Golinska
biochemistry
Insecta Graziosi
Vogel
chromatophore
Amphibia MacMillan
cilia
Ciliata Kink
early stages
Insecta Graziosi
Mammalia Johnson
Teleostei Haarlem
experimental study
Insecta Meer
Vogel
feathers
Aves Sengel
genetics
Insecta Kroeger
Nusslein

imaginal disc
Insecta — Kaurov, Nubler, Sprey
limb
Aves — Wolpert
mechanism
Acrasiales — Durston
Vertebrata — Horder
mesoderm induction
Amphibia — Boterenbrood
neural plate
Amphibia — Woellwarth
ooplasmic segregation
Mollusca — Dongen
position
Aves — Curtis
role of intersegm. region
Insecta — Nubler
spacing
Cyanophyc — Wilcox
stability
Cephalop — Marthy
testis
Homo — Posinovec
theoretical study
Lewis

PELVIC GIRDLE
see Skeleton

PEPTIDES
see Proteins

PERITONEUM
see Body cavities

PERIVITELLINE FLUID
see Egg(s)

PERMEABILITY

Amphibia — Schultheiss
Mammalia — Bara

PESTICIDES

Amphibia — Marchal, Rzehak
Angiosp — Bopp
Animalia — Bluzat
Aves — Bruel, David, Didier, Henou, Lutz, Meiniel, Protase
Ciliata — Golinska
Fungi — Wood
Gastropoda — Bluzat
Insecta — Ramade

PHARMACOLOGY
see Drug(s)

PHARYNX
see also Branchial region; Mouth

Turbellaria — Schilt, Stephan

PHENOCOPIES

Angiosp — Haccius
Insecta — Capdevilla

PHOSPHORUS
see Chemical elements

PHOTOMORPHOGENESIS

Angiosp — Mohr, Schopfer, Wagner, Wellmann

PHYLLOTAXIS
see also Leaf

Pteridoph — Lindenmayer
Spermatoph — Lindenmayer

PHYLOGENESIS

Korotkova
Amniota — Matejka, Slaby
Amphibia — Hinchliffe
Angiosp — Ly
Brachiopoda — Emig
Crossoptery — Hinchliffe
Homo — Matejka, Mazhuga, Slaby
Insecta — Eppenberger
Mammalia — Mazhuga, Schmidt
Phoronidea — Emig
Teleostei — Tcherniaev
Vertebrata — Collin, Eppenberger, Nieuwkoop, Presley, Wakita

PHYSICAL FACTORS
see specific physical agents; Environmental factors

PHYSIOLOGY (developmental)
see Embryology (experimental); Embryology (physiological)
see also Development

PIGMENT(ATION)
see also Chromatophore(s); Melanophore(s); Neural crest

Amphibia — Hach, Hoperskaya, La Spina
Angiosp — Pretova, Ryczkowski
Aves — Groenendijk
Homo — Hach
Insecta — Bouthier, Colln, Egelhaaf, Rembold
Mammalia — Deol, Hach, Hornby

PINEAL ORGAN (& parapineal organ)

Aves — Doskocil, Marraro
Cyclostom — Meiniel
Mammalia — Hewing
Vertebrata — Collin, Meiniel, Oksche

PITUITARY
see Hypophysis

PLACENTA(TION)
see also Blastocyst; Embryo-maternal relationships; Pregnancy

autoradiography
Mammalia — Peters
binucleate cells
Mammalia — Steven
biophysics
Mammalia — Bara
comparative study
Mammalia — Harrison, Strauss
culture in vitro
Homo — Baker
cytology
Mammalia — Taverne
development
Mammalia — Bulmer, Peel
differentiation
Mammalia — New
effect of chemicals
Homo — Jiricka
Mammalia — Jiricka
effect of fetectomy
Mammalia — Mohallal
effect of mat. malnutrition
Mammalia — Bernocchi, Fraschini, Manfredi, Porcelli, Redi, Scherini
effect of ovariectomy
Mammalia — Legrand
effect of prostaglandins
Mammalia — Mohallal
endocrinology
Homo — Baker
Mammalia — Colombo, Okker
enzymes
Homo — Gennser, Kaufmann, Vacek
Mammalia — Mohallal, Vacek
growth
Mammalia — New
histo- & cytochemistry
Homo — Jiricka, Thiery
Mammalia — Bielanska, Jiricka
malformations
Homo — Lemtis
Mammalia — Jelinek

morphology
Homo Baker, Preslickova, Thiery
Mammalia Preslickova, Taverne
pathology
Homo Becker, Jiricka
Mammalia Jiricka
physiology
Homo Guiet
Mammalia Panigel, Steven
relation to fetus
Homo Baur
Mammalia Baur
surface
Mammalia Thiriot
transplacental carcinogen.
Mammalia Elger, Wrba
transport
Homo Challier, Guerre, Nandakumaran, Vacek
Mammalia Fickentscher, Gulamhusein, Hemmings, Peters, Vacek
ultrastructure
Homo Kaufmann, Schiebler, Vacek
Mammalia Bielanska, Mohallal, Panigel, Steven, Vacek
vascularization
Homo Harris, Lemtis
Mammalia Harris, Thiriot
villi
Homo Baur
Mammalia Baur

PLACODE(S)
see also Sense organs

PLEURA
see Body cavities

POLAR BODIES
see Egg(s)

POLARITY
see Gradient(s); Symmetry

POLE CELLS
see Germ cells (primordial)

POLLUTANTS

Amphibia Palladini
Animalia Bluzat
Gastropoda Bluzat
Lamellibr Lucas
Musci Simola
Teleostei Heesen, Karlsson, Ozoh, Runn

POLYAMINES
see Amine(s)

POLYEMBRYONY

Amphibia Svyatogor
Aves Lutz, Svyatogor
Insecta Koscielska
Teleostei Lutz, Svyatogor

POLYMORPHISM

Insecta Hardie, Lees, Rembold, Schmidt, Truckenbrodt, Winkler, Woyke

POLYPEPTIDES
see Proteins

POLYPLOIDY

Amniota Vahs
Amphibia Cayrol
Angiosp Turala
Ciliata Vahs
Insecta Kunz, Woyke
Mammalia Niemierko, Nadal

POLYSACCHARIDES
see Carbohydrate(s)

POSTEMBRYONIC DEVELOPMENT
see Development (post-embryonic, fetal)

POTENCY
see Embryology (experimental)
see also Determination; Pattern formation; Regulation

PREGNANCY
see also Embryo-maternal relationships; Placenta(tion)

Homo Gebhardt, Lansdown
Mammalia Cabrol, Colombo, Lansdown, Mercier, Panigel, Tuchmann, Wilson
Teleostei Chambolle

PRESERVATION
see Culture & preservation

PRESSURE
see also Environmental factors

Ascidiacea Farinella

PRIMITIVE STREAK
see also Blastoderm

Amphibia Vacek
Aves Tahka, Vacek
Mammalia Vacek

PRIMORDIAL GERM CELLS
see Germ cells (primordial)

PROLIFERATION
see Mitosis

PRONEPHRIC DUCT
see Urogenital system

PRONEPHROS
see Kidney(s)

PROSPECTIVE MAPS
see Embryology (experimental)

PROSTAGLANDINS

Mammalia Mercier, Mohallal, Tuchmann

PROTEIN(S) (incl. peptides & polypeptides)

albumen
Aves Carinci, Gerlinger
albumin
Amphibia Abraham, Weber
autoradiography
Amphibia Brahma, Saag
basic
Echinoidea Backstrom
casein
Mammalia Mayer
cell cycle
Amphibia Lohmann
cell differentiation
Amphibia Jacob
Homo Jacob
chromatin
Aves Appleby, Modak
Echinoidea Cognetti
chromosomal
Amphibia Duprat
Homo Serman
contractile
Homo John
Mammalia John
control of regeneration
Actinozoa Lenicque
Turbellaria Lenicque
cortico-steroid binding
Aves Gasc
crystallins
Amphibia Brahma
Aves Brahma, Campbell, Clayton, Janssen, Pritchard, Starre, Truman

Mammalia Campbell
Clayton
McAvoy
Malinina
Platonov
Pritchard
Truman
degradation
Mammalia Paskin
degradation product
Mammalia Hemmings
development
Amphibia Ragghianti
Echinoidea Westin
differentiation
Insecta Duspiva
Rembold
DNA-binding
Insecta Hansen
early stages
Amphibia Brahma
Darnbrough
Romanovsky
Saag
Stanisstreet
Aves Janssen
McMaster
Modak
Crustacea Hultin
Echinoidea Backstrom
Giudice
Immers
Insecta Schnetter
Mammalia Johnson
Petzoldt
Teleostei Kostomarova
egg
Amphibia Brachet
elastin
Mammalia Moczar
electrophoresis
Amphibia Bucci
embryo
Aves Janssen
Starre
environmental factors
Insecta Papillon
experimental study
Amphibia Nedvidek
Romanovsky
Sladecek
eye
Amphibia Mitashov
Sviridov
Aves Janssen
Starre
Vertebrata Mikhailov
fat body
Insecta Papillon
Fe metabolism
Amphibia Chalumeau
Homo Chalumeau
Mammalia Chalumeau
fetal
Mammalia Serman
Skreb
fetoprotein
Peters
Aves Janssen
Homo Adinolfi
Seller
Serman
Shoro
Mammalia Adamson
Adinolfi
gene activation
Insecta Ish
genetics
Amphibia Beetschen
Gasser
Jaylet
Mammalia Goswami
heat-shock
Insecta Ish
hemoglobin
Homo Ramirez
hemolymph
Insecta Papillon
imaginal disc
Insecta Blais
Mandaron
immunology
Teleostei Heesen
keratin
Aves Dhouailly
Sengel
Mammalia Dhouailly
Reptilia Dhouailly
kininogenesis
Mammalia Choroszewska
liver
Mammalia Goswami
mammary gland
Mammalia Paskin
mitotic apparatus
ap Gwynn
muscle
Aves Caravatti
Pelloni
Perriard
Insecta Bode
Lehmann
Mammalia Perriard
Teleostei Perzanowska
mutant
Insecta Graziosi
nervous system
Aves Meller
nuclear
Amphibia Van Gansen
Yamada
Echinoidea Cognetti
oocyte
Insecta Papillon
oogenesis
Amphibia Darnbrough
Ficq
Ford
Moreau
Echinoidea Bäckström
Cognetti
organogenesis
Mammalia Skreb
pattern
Insecta Denucé
Porifera Denucé
Teleostei Denucé
peptide
Insecta Chen
phosvitin
Aves Caruso
physiology
Mammalia Hemmings
pineal organ
Vertebrata Collin
polypeptides
Actinozoa Lenicque
Turbellaria Lenicque
regeneration
Amphibia Anton
Vedder
Mammalia Dyson
Turbellaria Le Moigne
Martelly
reticulin
Homo Posinovec
reproductive system
Insecta Chen
ribonucleoprotein
Insecta Knust
ribosomal
Euglenophyc Freyssinet
Insecta Fragoulis
S-100
Amphibia Mitashov
Sviridov
salivary gland
Insecta Eeken
soluble
Amphibia Brahma
Saag
Mammalia Skreb
spermatozoa
Mammalia Monesi
synthesis
Amphibia Mitashov
Aves Janssen
Starre
theoretical study
Paskin
tooth
Mammalia Linde
transport to brain
Mammalia Hemmings
transport to fetus
Mammalia Hemmings
Wild
transport to milk
Mammalia Hemmings
tumour
Mammalia Serman
uterine
Homo Beier
Mammalia Beier
venom
Mammalia Gabriel
vitellin
Crustacea Charniaux
Croisille
Junera
Meusy
vitellogenin
Amphibia Felber
Ryffel
Weber
yolk
Teleostei Heesen

RADIATION
see Irradiation

RADIOMIMETIC AGENTS

REAGGREGATION
see Cell(s)

REARING METHODS

Brachyura Ingle
Crustacea Castel
Fincham
Williamson
Lagomorpha Beatty
Lamellibr Le Pennec
Le Roux
Lucas
Prieur
Polychaeta Cazaux

REGENERATION (physiological)

Amphibia Martin
Aves Balakhonov
Gastropoda Bergerard

REGENERATION (traumatic)
see also Interstitial cells; Wound healing

Actinozoa Van Praet
Amphibia Relexans
Arachnida Jacunski
Archiann Malikova
Brachiopoda Emig
Mammalia Relexans
Oligochaeta Relexans
Saussey
Phasmida Bart
Phoronidea Emig
Polychaeta Di Grande
Malikova
Pfannenstiel
Sabelli
Porifera Boury
Korotkova
Reptilia Bellairs
Turbellaria Bautz
Kritchinskaya
Tokin

autoradiography
Amphibia Dabagian
axial structures
Vertebrata Hauser
biochemistry
Amphibia Anton
Vedder
Hepaticae Viell
Mammalia Dyson
Mayer
Polychaeta Coulon
Thouveny
biophysics
Turbellaria Tei
capacity
Turbellaria Barastegui
cell reprogramming
Polychaeta Fontes
cellular basis
Nemertea Pedersen
chromosome
Turbellaria Deri
connective tissue
Turbellaria Pedersen
control
Hydrozoa Schmid
contr. by first & sec. messeng.
Actinozoa Lenicque
Turbellaria Lenicque

culture in vitro
Insecta Bart
Bulliere
Turbellaria Baguna
Chandebois
cytology
Oligochaeta Mouton
dedifferentiation
Amphibia Harrebomee
determination
Insecta Bulliere
differentiating cells
Turbellaria Baguna
differentiation
Amphibia Harrebomee
Turbellaria Le Moigne
digestive system
Mammalia Timashkevich
ear
Mammalia Joseph
effect of chemical
Turbellaria Palladini
effect of drugs
Aves Balakhonov
Mammalia Joseph
Turbellaria Barastegui
effect of fasting
Turbellaria Bautz
effect of hormones
Insecta Fournier
Mammalia Joseph
Turbellaria Franquinet
effect of nervous system
Amphibia Chapron
Hydrozoa Vannini
Oligochaeta Chapron
Turbellaria Schilt
Stephan
Tognato
Vannini
Vertebrata Hauser
effect of neurohormones
Amphibia Sliwa
Srebro
effect of neurosecretion
Hydrozoa Vannini
Turbellaria Tognato
Vannini
effect of neurotransmitters
Turbellaria Franquinet
effect of starvation
Oligochaeta Pylilo
effect of vascularisation
Amphibia Chapron
Oligochaeta Chapron
effect of venom
Mammalia Cullen
elastic tissue
Mammalia Moczar
embryo
Insecta Fournier
Rogueda
endocrinology
Crustacea Noulin
Insecta Bart
Fournier
Rogueda
Mammalia Desser
Polychaeta Hofmann
enzymes
Turbellaria Le Moigne
epithelium
Mammalia Joseph

experimental study
Annelida Boilly
Oligochaeta Stephan
Turbellaria Schilt
Stephan
eye
Amphibia Dabagian
Korochkin
Mitashov
Sviridov
eye lens
Amphibia Campbell
Truman
Vertebrata Horder
factors
Turbellaria Baguna
fate of tissues
Amphibia Lheureux
gene control
Insecta Bulliere
general study
Needham
head
Turbellaria Palladini
histo- & cytochemistry
Polychaeta Thouveny
imaginal disc
Insecta Bownes
Dewes
Wilcox
induction
Hydrozoa Muller
inhibitor
Oligochaeta Marcel
Turbellaria Torok
inner organs
Mammalia Ryabinina
involution
Turbellaria Bautz
irradiation
Turbellaria Bautz
leaf
Angiosp Neville
Woltz
leaf cutting
Angiosp Bragt
limb
Amphibia Lheureux
Vedder
Wallace
Watson
Arachnida Weychert
Crustacea Noulin
Insecta Bulliere
Fournier
liver
Mammalia Craciun
Desser
Mayer
Mutolo
Nadal
Preda
Protase
Romanova
lung
Mammalia Romanova
magnetic field
Turbellaria Marinelli
mechanism
Insecta Bownes
Mammalia Liosner
metabolism
Needham

mitosis
Insecta Bart
molecular biology
Amphibia Burgess
Polychaeta Durante
Fontes
Marilley
Puccia
Turbellaria Le Moigne
Martelly
Torok
morphogenesis
Hydrozoa Muller
muscle
Mammalia Cullen
neoblast
Turbellaria Baguna
nervous system
Amphibia Baffoni
Insecta Schurmann
Tesch
Mammalia Berry
Illis
Nie
Sumner
Oligochaeta Marcel
Vertebrata Horder
nucleotides
Turbellaria Franquinet
operculum
Polychaeta Durante
Puccia
pharynx
Turbellaria Schilt
Stephan
polar
Hydrozoa Muller
potentialities
Vertebrata Horder
posterior
Oligochaeta Mouton
regeneration cells
Annelida Boilly
regulation
Amphibia Campbell
Mammalia Sidorova
retina
Amphibia Mitashov
role of cuticle
Insecta Barbier
role of epidermal gland
Insecta Barbier
role of hormones
Mammalia Craciun
Preda
Protase
root
Angiosp Guillemonat
spleen
Mammalia Kharlova
tail
Amphibia Brustis
thymus
Mammalia Kharlova
tissue
Mammalia Dyson
tooth
Mammalia Artis
trophic factor
Oligochaeta Marcel
ultrastructure
Ctenophora Pylilo
Turbellaria Chandebo
Le Moigne
undifferentiated cells
Turbellaria Chandebois
wing
Insecta Bart
Browaeys

REGULATION (embryonic)

Amphibia Campbell
Aves Amprino
Kieny
Cephalop Marthy
Ciliata Jerka
Kink

REPRODUCTION (asexual)
see Asexual reproduction

REPRODUCTION (sexual)
see also Egg(s); Fertility (& sterility; Reproductive system; Spermatozoa, etc.

Angiosp Cock
Copepoda Lescher
Mammalia Huber
Polychaeta Hofmann
Teleostei Durand
Tcherniaev
Urodela Durand
apomixis
Angiosp Izmailow
artificial insemination
Mammalia Gulamhusein
comparative study
Mammalia Harrison
contraception
Mammalia Eckstein
cycle
Crustacea Besse
Picaud
Echinoderm Kasyanov
Gastropoda Bergerard
Lamellibr Kasyanov
Mammalia Huber
Reptilia Herbert
Teleostei Koshelev
effect of pollutants
Teleostei Karlsson
endocrinology
Polychaeta Hauenschild
Reptilia Wilson
environmental factors
Insecta Delay
enzyme
Hydrozoa Muller
immunology
Homo Billington
Dillon
Jenkinson
Searle
Sellens
Smith
Mammalia Billington
Dillon
Jenkinson
Searle
Sellens
Smith
Porifera Evans
inhibition in dense popul.
Amphibia Sturdee
Teleostei Sturdee
inhibition of protein synth.
Oligochaeta Lattaud
rate
Crustacea Neumann
Insecta Neumann
spawning
Gastropoda Bergerard
Teleostei Koshelev
species crosses
Mammalia Gulamhusein

REPRODUCTIVE SYSTEM
see also specific parts; Genital tract; Urogenital system

Hydrozoa Fioroni
Mammalia Pelliniemi
accessory sex gland
Insecta Chen
Gallois
Mammalia Beier
Colenbrander
Kuhnel
comparative study
Mammalia Strauss
descriptive study
Cephalopoda Di Grande
development
Amphibia Ashby
Teleostei Ashby
diploids
Insecta Woyke
effect of antiandrogens
Mammalia Bondi
Marinelli
Vagnetti
effect of pesticide
Aves Protase
Insecta Ramade
endocrinology
Amphibia Ashby
Aves Protase
Insecta Hartmann
Teleostei Ashby
experimental study
Amphibia Gipouloux
Cephalop Di Grande
Mammalia Beier
female
Mammalia Bulmer
Peel
Strauss
function
Gastropoda Gomot
glands
Insecta Chauvin
histochemistry
Mammalia Kuhnel
morphogenesis
Aves Cuminge
morphology
Amniota Matejka
Homo Matejka
Mammalia Kuhnel
phylogenesis
Amniota Matejka
Homo Matejka
prostate
Homo Pelliniemi
spermatheca
Insecta Hartmann
ultrastructure
Insecta Hartmann
Mammalia Bondi
Marinelli
Vagnetti

RESPIRATION
see also Metabolism

Angiosp Ryczkowski
Ascidiacea D'Anna
Aves Dawes
Homo Challier
Guiet
Thiery
Mammalia Clegg
Teleostei Braum

RESPIRATORY TRACT

Homo Choffel
Dollander

RETICULO-ENDOTHELIAL SYSTEM
see Macrophage system

RHESUS FACTORS
see Immunology

RIBONUCLEIC ACID
see also Nucleic acids

5s
Amphibia Ford
anucleate cell
Chlorophyc Schweiger
calliphorin & drosophilin
Insecta Sekeris
capping
Echinoidea Giudice
Pirrone
Sconzo
cell differentiation
Amphibia Jacob
Homo Jacob
chromosomal
Amphibia Lacroix
cytoplasmic
Echinoidea Giudice
Sconzo
early stages
Amphibia Wall
Ascidiacea Mansueto
Echinoidea Giudice
Pirrone
Rinaldi
Sconzo
Hydrozoa Muller
Insecta Buning
Schnetter
effect on cell culture
Aves McKenzie
effect on early stages
Aves McKenzie
egg
Amphibia Thomas
Ascidiacea Farinella
embryo
Aves Wylie
eye
Chondrostei Baburina
Mitashov
Stroeva
gene
Aves Wylie
imaginal disc
Insecta Tarroux
informational
Amphibia Ford
liver
Mammalia Mutolo
messenger
Amphibia Darnbrough
Aves Clayton
Jackson
McMaster
Modak
Thomson
Truman
Williamson
Crustacea Kondo
Euglenophyc Verdier
Homo Jones
Insecta Jones
Lassak
Nellen
Sekeris
Weideli
Mammalia Jones
metabolism
Aves Desveaux
Insecta Ineichen
mitochondrial
Echinoidea Mutolo
Mammalia Mutolo
nuclear
Amphibia Angelier
Insecta Schmidt
oocyte
Aves Wylie
oogenesis
Amphibia Denoulet
Ford
ovary
Insecta Mays
Nagl
Ribbert
regeneration
Amphibia Burgess
Turbellaria Le Moigne
Martelly
regulation
Insecta Sekeris
ribonucleoprotein
Insecta Derksen
ribosomal
Amphibia Thomas
Aves Wylie
Echinoidea Mutolo
Insecta Mischke
Schafer
Polychaeta Durante
Puccia
salivary gland
Insecta Eeken
spermatozoa
Mammalia Monesi
synthesis
Amphibia Thomas
Insecta Buning
transfer
Insecta Kubli
Mammalia Eliasson
translation
Insecta Sekeris
translation in vitro
Insecta Nellen
translational control
Acrasiales Hames
transport
Echinoidea Gezelius

RIBOSOMES
see Subcellular components

ROOT
see also Meristem

Angiosp Dexheimer
Guillemonat
Gulluni
Lindenmayer
Neville
Santoro

SACCUS VASCULOSUS

SALIVARY GLAND

Homo Posinovec
Insecta Danieli
Dennhofer
Eeken
Gaudecker
Maehr
Vossen
Mammalia Lawson

SCALE(S)
see also Skin

Insecta Mauchamp

SEED (& Germination)

Angiosp Douay
Neville
Ryczkowski
Schopfer

SELF–RECOGNITION

SEMEN
see Reproduction (sexual)

SENESCENCE
see Age

SENSE ORGANS
see also specific organs; Placodes

Amphibia Brändle
Fox
Whitear
Annelida Heimler
Aves Saxod
Coelomata Heimler
Insecta Larink
Schurmann
Mammalia Saxod
Vertebrata Oksche

SERUM
see Blood

SEX CHROMATIN
see Nucleus

SEX DETERMINATION
see also Sexual development

Gastropoda Gomot
Griffond

Hydrozoa Stagni
Insecta Camenzind
Nöthiger
Went
Mammalia Buehr
Wolf
Zenzes
Urodela Wallace

SEX DIFFERENTIATION
see also Sexual development

Amphibia Ashby
Cambar
Collenot
Di Grande
Tognato
Zaborski
Zaccanti
Aves Limborgh
Lutz
Rashedi
Reyss
Cephalopoda Di Grande
Crustacea Juchault
Legrand
Martin
Payen
Touir
Gastropoda Andre
Hydrozoa Stagni
Vannini
Insecta Richard
Mammalia Balakier
Burgoyne
Byskov
Colenbrander
Drews
McLaren
Mestres
Swanson
Vilanova
Wolf
Zenzes
Mollusca Sabelli
Oligochaeta Andre
Lattaud
Relexans
Polychaeta Hauenschild
Pfannenstiel
Teleostei Ashby
Turbellaria Tognato
Vannini

SEX HORMONES
see Hormones

SEX RATIO
see also Sexual development

SEX REVERSAL
see also Sexual development

Amphibia Stagni
Vannini
Aves Reyss
Crustacea Legrand
Homo Tudose
Mammalia Drews
Teleostei Sola

SEXUAL DEVELOPMENT
see also specific sex organs; Reproductive system; Sex determination; Sex differentiation; Sex ratio; Sex reversal

Aves Cuminge
Dubois
Lamellibr Lucas
Oligochaeta Saussey
cryptorchidism
Mammalia Straaten
endocrinology
Amphibia Ashby
Homo Tudose
Mammalia Swanson
Teleostei Ashby
experimental study
Fungi Wessels
genetics
Homo Tudose
hybrids
Aves Deray
Gomot
inducing factors
Aves Salzgeber
monogeny
Crustacea Juchault
sexual dimorphism
Cladocera Gaino

SHELL (body covering)
see also Carapace

Dinophyc Netzel
Gastropoda Meshcheryakov
Thiriot
Vela
Lamellibr Le Pennec
Rhizopoda Netzel

SHELL (eggs)
see Egg coverings

SHELL GLAND
see Integument; Oviduct

SHOOT
see also Meristem

Angiosp Bopp

SHOULDER GIRDLE
see Skeleton

SILK GLAND

Insecta De Turenne

SKELETON
see also specific parts; Bone(s); Cartilage

Aves Bellairs
Chevallier
Nardi
Ruano
Suso
Thorogood
Homo Bagnall
Becker
Gathmann
Mazhuga
Mammalia Bellairs
Bugrilova
Konyukhov
Mazhuga
Pratt
Reptilia Bellairs

SKIN
see also Carapace; Epidermis; Integument; Pigment(ation); Wound healing

Amphibia Clemen
Hanke
Schultheiss
Aves Becchetti
Carinci
Desveaux
Mauger
Rinaudo
Saxod
Sengel
Stabellini
Suso
Verna
Homo Breathnach
Rodentia Hanke
Teleostei Bereiter

SKULL (& visceral skeleton)
see also Chondrocranium

Amniota Slaby
Amphibia Raunich
Aves Baehny
Limborgh
Nijweide
Tonneyck
Homo Becker
Gathmann
Iannello
Slaby
Mammalia Doorenmaalen
Huber
Kvinnsland
Lendon
Markens
Nijweide
Oudhof
Tonge

SOMATIC MUTATIONS
see Genetics

SOMATIC RECOMBINATION
see Cell heredity

SOMITE(S)

Amphibia Brustis
Burgess
Ivanov
Kordylewski
Aves Christ
Curtis
Fazekas
Ivanov
Jacob
Lanot
Menkes
Sandor
Vertebrata Hauser

SPERMATOGENESIS
see also Gametes

Arachnida Pijnacker
Insecta Pijnacker
Mammalia Abro
Merkle
Platyhelm Hendelberg
Teleostei Zaitzev
Turbellaria Farnesi
anomalies
Homo Posinovec
autoradiography
Teleostei Riehl
biochemistry
Insecta Knust
Mammalia Monesi
comparative study
Deuterostomata
Colombera
Invertebr Franzen
culture in vitro
Mammalia Monesi
descriptive study
Cestoda Bazitov
diploids
Insecta Woyke
effect of various factors
Homo Harrison
Mammalia Harrison
endocrinology
Crustacea Payen
environmental factors
Teleostei Zaitzev
histo- & cytochemistry
Cephaloch Riehl
Hydrozoa Stagni
Mammalia Bernocchi
Fraschini
Manfredi
Porcelli
Redi
Scherini
Teleostei Riehl
meiosis
Homo Polani
Insecta Camenzind
Lamellibr Vassetzky
Mammalia Polani
microcinematography
Insecta Camenzind
molecular biology
Insecta Mischke
pathology
Mammalia Bernocchi
Fraschini
Manfredi
Porcelli
Redi
Scherini
role of Sertoli cell
Mammalia Monesi
temperature
Mammalia Frankenhuis
ultrastructure
Ascidiacea Villa
Cephaloch Riehl
Hydrozoa Stagni
Teleostei Riehl

SPERMATOZOA
see also Gametes

chromatin
Echinoidea Geraci
comparative study
Invertebr Franzen
cytology
Homo Guedenet
effect of benzopyrene
Amphibia Ceas
molecular biology
Mammalia Monesi
motility
Homo Brun
Mammalia Brun
pathology
Mammalia Birch
Blom
ultrastructure
Ascidiacea Villa
Chondrostei Ginsburg
Mammalia Birch
Blom
Wabik

SPERMIOGENESIS
see Spermatogenesis

SPINAL CORD

Amphibia Kort
Roberts
Thors
Trevisan
Aves Ambrosi
Camosso
Mauger
Mitolo
Teleostei Marini

SPLEEN

Aves Dieterlen
Mammalia Kharlova

SPORE (& sporulation)

Bacteria Seddon
Fungi Zonneveld

STATIC ORGAN

Amphibia Briegleb
Neubert
Cyclostom Hagelin
Mammalia Marty

STERILITY
see Fertility (& sterility)

STEROIDS
see also Cortisone; Hormone(s)

androgen
Homo Sulcova
Mammalia Kratochwil
Vilanova
antiandrogen
Mammalia Bondi
Marinelli
Vagnetti
Vilanova
ecdysone
Crustacea Blanchet
Insecta Bulliere
Eeken
Koolman
Lafont
Mandaron
Vijverberg
ecdysterone
Insecta Fournier
effect on conceptus
Homo Gennser
effect on egg & ovulation
Teleostei Colombo
effect on embryo
Mammalia Cockroft
effect on gall bladder
Mammalia France
effect on genital duct
Aves Rashedi
effect on gonads
Aves Scheib
Homo Ludwig
Mammalia Ludwig
Peters
Vilanova
effect on implantation
Mammalia Surani
effect on mammary gland
Mammalia Kratochwil
effect on mouth
Mammalia Luke
effect on regeneration
Insecta Bulliere
Fournier
Mammalia Joseph
effect on sexual development
Amphibia Zaccanti
effects on sexual different.
Amphibia Ashby
Stagni
Vannini
Mammalia Swanson
eff. on vitellogenin synth.
Amphibia Felber
Ryffel
Weber
embryo
Mammalia Okker
enzymes
Amphibia Dupuis
estrogens
Aves Gabriel
Homo Gebhardt
Mammalia Colombo
Gabriel
gonadal
Mammalia Brinkmann
metabolism
Vertebrata Antila
metabolism & binding
Homo Sulcova
oogenesis
Teleostei Colombo
placental
Mammalia Okker
production
Homo Stark
Mammalia Stark
receptors
Aves Gasc
synthesis
Mammalia Lombard

teratogenesis
Aves Gabriel
Mammalia Gabriel
New
transplacental carcinogen.
Mammalia Elger

STOLON
see Asexual reproduction

STOMACH

Homo Swain
Mammalia Morris
Timashkevich

SUBCELLULAR COMPONENTS
see also Membrane

biophysics
Hydrozoa Müller
cell differentiation
Insecta Molen
chloroplast
Angiosp Street
Chlorophyc Schweiger
Euglenophyc Freyssinet
Heizmann
Nicolas
Nigon
Salvador
Verdier
co-operation in morphogen.
Chlorophyc Schweiger
early embryo
Gastropoda Wal
egg
Teleostei Scriba
enzymes
Insecta Duspiva
fibrils
Ciliata Kink
Golgi complex
Insecta Giorgi
Polychaeta Dhainaut
lysosomes
Amphibia Decroly
Guardabassi
Steinert
Aves Simkiss
membrane
Mammalia Kaluza
metamorphosis
Insecta Priester
microfilament
Amphibia Gabrion
Geuskens
microtubule
Gabrion
Echinoidea Cognetti
mitochondria
Amphibia Bereiter
Billett
Lovtrup
Nelson
Echinoidea Rinaldi
Gymnosp Willemse
myofibril
Aves Eppenberger
Heizmann
Pelloni
Insecta Beinbrech
Mammalia Cullen
Heizmann
myofilament
Mammalia Cullen
oocyte
Insecta Giorgi
relation yolk-membrane
Gastropoda Wal
ribosomes
Amphibia Wall
Euglenophyc Freyssinet
Insecta Fragoulis
Lassak
Nellen
Mammalia Hach
Virtanen
Wartiovaara
role in development
Amphibia Bluemink
surface organelles
Ciliata Jerka

SUBCOMMISSURAL ORGAN
see Brain

SUCKER
see Gland(s)

SUGARS
see Carbohydrate(s)

SULPHYDRYL GROUPS

Polychaeta Brachet

SWIM BLADDER
see Lungs

SYMBIOSIS
see also Mycetome

Coleoptera Ressouches

SYMMETRY (& asymmetry)
see also Gradient(s)

Amphibia Albert
Boterenbrood
Hara
Nieuwkoop
Ubbels
Aves Clavert
Lutz
Pautou
Tickle
Ciliata Jerka
Gastropoda Meshcheryakov
Verdonk
Insecta Vreezen
Mollusca Biggelaar

SYNAPSE

Amphibia Baker
Stefanelli
Aves Filogamo
Giacobini
Meller
Robecchi
Sisto
Stefanelli
Insecta Schurmann
Mammalia Baker
Cochard
Illis
Marty
Meller
Teleostei Grun
Stefanelli

TAIL
see also Regeneration (traumatic)

Amphibia Brustis
Fox
Guardabassi

TEMPERATURE
see also Environmental factors

Amphibia Briegleb
Arachnida Mikulska
Aves Fischer
Rusu
Ciliata Golinska
Crustacea Legrand
Insecta Bulyzhenkov
Fourche
Ivanov
Juberthie
Mglinetz
Papillon
Mammalia Frankenhuis
Keith
Lawrence
New
Teleostei Morgan
Zaitzev

TENTACLE

TERATOGENESIS (experimental)
see also Anomalies (early development); Drugs; Mouth; Malformations; Pathology; Thalidomide; specific agents; specific organs

Arachnida Jacunski
Mikulska
Aves Fazekas
Horvath
Peterka
Mammalia Checiu
Csaba
Herman
Horvath
Kleinebrecht
Muller
Peterka
Seller
action of chemicals
Aves Meiniel
action mechanism
Aves Landauer
allantois
Aves Marrara
amino acids
Mammalia Choroszewska
axial structures
Aves Meiniel
biochemistry
Aves Ojeda
Mammalia Svejcar
blood serum
Aves Jelinek
chemical
New

Aves Landauer
Van Toledo
Homo Brun
Insecta Bownes
Duke
Mammalia Beck
Brun
Cockroft
Fickentscher
Horvath
Keith
Madjerek
Mercier
Peters
Roussel
Tuchmann
chromosomal aberrations
Mammalia Niemierko
chromosomes
Mammalia Horvath
culture in vitro
Mammalia Morriss
different agents
Mammalia Smirnova
early development
Amphibia Burgess
Mammalia Morriss
effect of culture in vitro
Homo Barnes
Mammalia Barnes
effect of diabetes
Mammalia Deuchar
effect of histidinaemia
Mammalia Campbell
effect of IUD
Homo Hurst
Mammalia Hurst
effect of weightlessness
Insecta Briegleb
Neubert
environmental factors
Aves Menkes
Mammalia Keith
exencephalus
Mammalia Lendon
experimental
Mammalia Amels
Sandor
experimental study
Mircov
eye
Mammalia Akhabadze
Stroeva
face
Mammalia Lendon
food dyes
Amphibia Gulluni
Santoro
head
Aves Schowing
Mammalia Schowing
heart
Aves Laane
Los
Roest
Mammalia Laane
Los
Roest
hormones
Aves Faucounau
in vitro
Mammalia Thesleff
irradiation
Mammalia Horvath
Roux
kidney
Mammalia Garcia
lathyrism
Amphibia Gerzeli
limb
Amphibia Lauthier
Aves Salzgeber
Mammalia Shoro
mechanism
Mammalia Cockroft
methods
Mammalia Peters
micromelia
Mammalia Druga
necrosis
Menkes
Aves Capalnasan
Tosici
Mammalia Capalnasan
nervous system
Amphibia Palladini
Aves Alexandru
Checiu
Mammalia Wender
neural tube
Peters
neuromuscular blocking agent
Mammalia Shoro
potatoes
Mammalia Keith
preimplantation
Mammalia Elbling
relation with fetoprotein
Peters
RNAse
Aves Lanot
role of neural crest
Aves Keith
Mammalia Keith
sensitivity
Insecta Duke
spina bifida
Mammalia Lendon
supernumerary limb
Crustacea Noulin
temperature
Aves Fischer
Mammalia New
teratogens
Clayton
de Pomerai
Pritchard
Mammalia Amels
Sandor
trypan blue
Aves Lanot
Mammalia Lendon
ultrastructure
Aves Ojeda
venom
Mammalia Clavert
Gabriel
virus
Homo Groscurth
Mammalia Groscurth
vitamin
Mammalia Lendon
xylene
Mammalia Mankowska

TERATOLOGY
see Anomalies (early development); Malformations

TERATOMA(S)

Aves Salaun
Homo Gaillard
Graham
Mammalia Adamson
Crnek
Cudennec
Evans
Gaillard
Graham
Lazard
Papaioannou
Salaun
Serman
Skreb
Sobis

TESTIS

Mammalia Abro
culture in vitro
Mammalia Drews
Wensing
descent
Mammalia Wensing
development
Mammalia Straaten
endocrinology
Aves Weniger
Mammalia Brinkmann
histochemistry
Mammalia Straaten
Wensing
hybrid
Aves Gomot
Marchand
morphogenesis
Mammalia Jantosovicova
Müllerian duct inhibitor
Aves Groenendijk
mutant
Mammalia Drews
pathology
Homo Posinovec
Mammalia Blom
pattern formation
Homo Posinovec
physiology
Aves Gomot
Marchand
Sertoli cells
Mammalia Merkle
temperature
Mammalia Frankenhuis
transplantation
Mammalia Straaten

THALIDOMIDE

Fickentscher
Aves Salzgeber
Mammalia Keith

THEORETICAL BIOLOGY (developmental)

cell cycle
Angiosp Lindenmayer

cell interactions
Angiosp Lindenmayer
cell lineage
Angiosp Lindenmayer
chemical turn over
Aves Dubois
computer analysis
Bezem
Raven
computer model
Ransom
Wilde
Aves Mitolo
computer simulation
Message
differentiation
Zotin
flowering
Angiosp Lindenmayer
growth
Johnson
Zotin
Aves Mitolo
Crustacea Mocquard
limb
Aves Mitolo
mitosis
Harte
models
Angiosp Lindenmayer
multidimensional development
Aves Lindenmayer
Insecta Lindenmayer
multivariate analysis
Johnson
pattern formation
Lewis
protein turnover
Paskin

THORACIC CAVITY
see Body cavities

THYMUS

Amphibia Balls
Clothier
Horton
Manning
Aves Jotereau
Homo Gaudecker
Groscurth
Rembiszewska
Roszczynska
Mammalia Abrunhosa
Fontaine
Groscurth
Kharlova
Tondury

THYREOSTATIC AGENTS
see Thyroid gland

THYROID GLAND
see also Thyroxine

Gabrion
Amphibia Campantico
Guastalla
Pehlemann
Schultheiss
Aves Maraud
Stoll
Mammalia Blahser
Mitskevich
Wroblewski
Young

THYROXINE

Amphibia Giroud
Hartwig
Aves Faucounau
Chondrostei Davidova
Dettlaff
Mammalia Mitskevich

TISSUE(S)
see also Chalones

culture in vitro
Heaysman
Aves Abercrombie
Deleanu
Dunn
Dutton
Dyer
Heath
Prelipceanu
Homo Adinolfi
Dutton
Insecta Dubendorfer
Mammalia Abercrombie
Dunn
Dutton
Heath
dynamics
Aves Pexieder
endocrinology
Aves Dyer
enzymes
Aves Croisille
Dutton
Homo Dutton
Mammalia Dutton
interactions
Aves Gumpel
stability
Hydrozoa Schmid

TONGUE
see Mouth

TOOTH (TEETH)

ameloblast
Vertebrata Wakita
autoradiography
Mammalia Beynon
biochemistry
Mammalia Linde
calcification
Mammalia Linde
culture in vitro
Amphibia Capuron
Mammalia Fejerskov
Josephsen
Thesleff
development
Amphibia Chibon
Mammalia Kindahl
Tonge
enamel
Homo Thylstrup
Mammalia Beynon
Josephsen
epith.-mesench. interact.
Mammalia Karcher
Ruch
eruption
Mammalia Tonge
experimental study
Homo Thylstrup
Mammalia Thylstrup
fluor
Mammalia Ilies
Tewari
function
Mammalia Josephsen
histochemistry
Mammalia Beynon
in teratoma
Mammalia Gaillard
incisor
Mammalia Josephsen
induction
Amphibia Capuron
involution
Mammalia Kindahl
morphology
Mammalia Josephsen
neural crest cells
Amphibia Wakita
papilla
Homo Murbach
Schroeder
physiology
Mammalia Tonge
proliferation
Mammalia Karcher
Ruch
pulp
Homo Murbach
Schroeder
regeneration
Mammalia Artis
stereology
Homo Murbach
Schroeder
tissue interactions
Mammalia Thesleff
ultrastructure
Amphibia Clemen
Homo Thylstrup

TOXINS
see also Bacteria; Teratogenesis

Amphibia Gulluni
Santoro
Aves Gabriel
Schowing
Insecta Maisonhaute
Mammalia Clavert
Gabriel
Schowing

TRACE ELEMENTS
see Chemical elements

TRACHEAL SYSTEM

TRANSFER (blastocyst, etc.)

Mammalia	Barnes
	Brand
	Checiu
	Eckstein
	Gulamhusein
	Jirsova
	Marston
	Mercier
	Roussel
	Zeilmaker

TRANSPLANTATION
see also Immunology; Nucleus

Mammalia	Wroblewski
allograft rejection	
Mammalia	Steele
autoplastic	
Mammalia	Kvinnsland
biochemistry	
Mammalia	Robert
brain	
Aves	Baehny
cartilage	
Mammalia	Kvinnsland
cytoplasm	
Amphibia	Delarue
early embryo	
Mammalia	Crnek
	Skreb
head	
Amphibia	Brändle
heteroplastic	
Aves	Le Douarin
Mammalia	Wrba
homoplastic	
Aves	Chevallier
immunology	
Amphibia	Horton
	Newth
interspecific	
Aves	Baehny
limb	
Amphibia	Brändle
method	
Aves	Passaponti
Mammalia	Passaponti
pineal organ	
Aves	Marraro
recognition	
Mammalia	Robert
skin	
Homo	Makinen
	Raekallio
Mammalia	Makinen
	Raekallio
tissue	
Amphibia	Deparis
xenoplastic	
Amphibia	Farinella
Aves	Chevallier

TROPHOBLAST
see Blastocyst

TUMOUR(S)
see also Carcinogenetic agents; Teratoma(s)

Amphibia	Balls
Insecta	Gateff
Mammalia	Elbling
carcinogenesis in vitro	
Mammalia	Duke
comparative study	
Mammalia	Gaillard
culture in vitro	
Homo	Wolff
differentiation	
Homo	Rousseau
embryo transfer	
Mammalia	Barnes
embryonic	
Homo	Gaillard
embryonic carcinoma	
Mammalia	Crnek
	Skreb
epith.-mesench. interact.	
Vertebrata	Tarin
fetal enzymes	
Mammalia	Raftell
genetics	
Insecta	Gateff
germ cell	
Mammalia	Lazard
histology	
Vertebrata	Tarin
immunology	
Aves	Stenman
	Vaheri
	Wartiovaara
induction	
Mammalia	Wrba
interact. with embr. cells	
Homo	Propper
Mammalia	Propper
	Salaun
neuroblastoma	
	Augusti
paraneoplastic phenomena	
	Lakshmi
	Sherbet
pigment	
Amphibia	Hach
Homo	Hach
Mammalia	Hach
sarcoma	
Aves	Beug
susceptibility & resistance	
Mammalia	Barnes
transformation	
Aves	Beug
ultrastructure	
Vertebrata	Tarin
virus-induced	
Mammalia	Sobis
yolk sac	
Mammalia	Gaillard
	Sobis

TWINS (& other multiple births)

Homo	Thiery

ULTIMOBRANCHIAL BODY

Aves	Blahser
	Thesingh

ULTRASOUND
see also Environmental factors

Aves	Dyson
	Lutz
Mammalia	Dyson

ULTRAVIOLET IRRADIATION

Gastropoda	Jura
Insecta	Bownes
	Kalthoff
	Zissler
Mollusca	Labordus

UMBILICAL CORD
see also Vascular system

URETER
see Urogenital system

URINARY BLADDER
see Urogenital system

URINARY SYSTEM
see Excretory system

UROGENITAL SYSTEM
see also Excretory system; Genital tract; Reproductive system

	Ruano
Amphibia	Cambar
Aves	Duncker
Mammalia	Gabriel
	Madjerek
	Pleeging
	Tejedo
Teleostei	Ramsay

UTERINE TUBE
see Oviduct

UTERUS

Mammalia	Brun
biophysics	
Mammalia	Naaktgeboren
decidua	
Homo	Hoyes
Mammalia	Madjerek
endocrinology	
Mammalia	Surani
endometrial secretion	
Mammalia	Choroszewska
immunology	
Mammalia	Bulmer
	Peel
implantation	
Mammalia	Surani
perinatal	
Mammalia	Naaktgeboren
physiology	
Mammalia	Bontekoe
	Naaktgeboren
secretions	
Mammalia	Eckstein
stem cell	
Mammalia	Surani
ultrastructure	
Homo	Hoyes
Mammalia	Gulamhusein

VAGINA
see Genital tract

VASCULAR SYSTEM
see also Circulation; Heart (& great vessels); specific organs, etc.

Aves	Pexieder
	Rickenbacher
	Roncali
Homo	Kocova
	Makinen
	Mazhuga
	Raekallio
	Woollam
Mammalia	Abrunhosa
	Becchetti
	Bugge
	Chapron
	Knudsen
	Makinen
	Mazhuga
	Pexieder
	Raekallio
	Woollam

VASCULAR TISSUE

Angiosp	Amer
	Neville
Gymnosp	Denne

VASCULARIZATION
see specific organs, etc

VEGETATIVE GRADIENT
see Gradients
see also Embryology (exper.); Embryology (physiological)

VEGETATIVE NERVOUS SYSTEM
see Autonomic nervous system

VERTEBRAE (vertebral column)

Aves	Chevallier
	Christ
	Jacob
	Lanot
	Strudel
Mammalia	Theiler
Vertebrata	Hauser

VIRUS(ES)

	Kilarski
Aves	Beug
Crustacea	Legrand
Homo	Groscurth
	Kistler
	Tondury
Mammalia	Both
	Groscurth
	Kistler
	Lansdown

VISCERA

Mammalia	Babayeva
	Sidorova

VISCERAL SKELETON
see Skull (& visceral skeleton)

VITAL STAINING

VITAMIN(S)

Mammalia	Lendon
	Peters

VITELLINE MEMBRANE
see Egg(s)

VITELLOGENESIS
see also Yolk

Amphibia	Giorgi
	Ragghianti
	Van Gansen
Aves	Bellairs
Crustacea	Blanchet
	Charniaux
	Croisille
	Johannisson
	Junera
	Meusy
	Zerbib
Gastropoda	Bottke
Insecta	Bilinski
	Giorgi
Teleostei	Riehl

VIVIPARITY

Reptilia	Wilson
Teleostei	Benedetti
	Gotting
	Tcherniaev

WATER

Insecta	Chauvin

WING(S)

Aves	Amprino
	Camosso
Insecta	Bart
	Browaeys
	Lindenmayer
	Vreezen

WOLFFIAN DUCT
see Urogenital system

WOUND HEALING

Aves	Efimov
	Thevenet
Homo	Makinen
	Raekallio
	Viljanto
Insecta	Bohn
Mammalia	Andersen
	Efimov
	Fejerskov
	Kopec
	Makinen
	Raekallio
Turbellaria	Pedersen

XANTHOPHORES
see Chromatophore(s)

X-IRRADIATION
see also Irradiation; Radiomimetic agents

Amphibia	Alexandre
	Di Grande
	Jaylet
	Peters
Arachnida	Tempelaar
Aves	Beaupain
	Fischer
Chondrostei	Chmilevsky
	Faleeva
	Gureeva
	Persov
	Sakun
	Zubova
Mammalia	Alexandre
	Baker
	Berry
	Lierse
Teleostei	Chmilevsky
	Faleeva
	Gureeva
	Persov
	Sakun
	Zubova
Turbellaria	Bautz

YOLK
see also Egg; Nutrition; Vitellogenesis

Amphibia	Decroly
	Giorgi
	Ignatjeva
	Steinert
Aves	Carinci
	Caruso
	Evangelisti
	Evans
	Gilbert
	Perry
Cephalopoda	Fioroni
Crustacea	Raineri
Gastropoda	Albanese
	Bolognari
	Bottke
	Fioroni
	Wal
	Zaccone
Insecta	Giorgi
Reptilia	Grodzinski
Teleostei	Fioroni
	Heesen
	Ignatjeva

YOLK SAC
see Embryonic membranes

The Hubrecht Laboratory (International Embryological Institute) (for address see page 2 of this issue)

Individual guest workers from all countries are welcome at the Laboratory. Partial financial support is available in special cases only.

Annual Progress Reports are available on request. They are in English and summarise the current research of the staff and guest workers (both Dutch and foreign).

Persons interested in receiving reprints of the Laboratory's publications may ask to be placed on the Mailing List. They will receive a reprint check list at regular intervals.

The Laboratory offers the following international facilities:

a) *The Central Embryological Collection*, containing embryonic material of man, many mammals, and all other vertebrate classes, some of it very rare. Details will be supplied on request. A catalogue in book form is available.

b) *The Central Embryological Library*, an extensive reprint library covering the entire field of developmental biology, with documentation and bibliographical services attached. Details will be supplied on request.

c) *International Research Groups in Developmental Biology*. Aim: to stimulate research in developmental biology by introducing young scientists from different countries into the field and enabling them to engage in practical international co-operation. Age limit 35, maximally 12 members. The ninth Research Group will probably be held in the first half of 1979 or 1980.

International Society of Developmental Biologists (Developmental Biology section of the I.U.B.S.)

The I.S.D.B. organises an International Embryological Congress once every four years (IXth Congress to be held in 1981), as well as one or two regional Symposia every year. Members receive a Developmental Biology Newsletter. International Secretary: Nicole LeDouarin, Institut d'Embryologie du C.N.R.S. et du Collège de France, 49bis av. de la Belle Gabrielle, 94130 Nogent-sur-Marne, France. Secretary-Treasurer: M.Spiegel, Department of Biological Sciences, Dartmouth College, Hanover, NH 03755, U.S.A. Membership close to 600. Membership list follows below.

International Society of Differentiation

This society holds triennial conferences, the next one being scheduled for August-September 1978 in Minneapolis. Secretary: R. G. McKinnell, Dept. of Genetics and Cell Biology, University of Minnesota, 250 BioScience Center, St.Paul, MN 55108, U.S.A.

European Developmental Biology Organization (E.D.B.O.)

The Organization was provisionally established in 1976. At present it encompasses some ten national Societies or Sections for Developmental Biology, as well as ca. 100 individual members in other countries in Europe and the Middle East. For the time being its main purpose is to disseminate information and to co-ordinate scientific meetings. Provisional Secretary/Treasurer: J. McKenzie, Dept. of Developmental Biology, University of Aberdeen, Marischal College, Aberdeen AB9 1AS, Scotland, U.K.

Other Collections of Embryos available for study

a) *Carnegie Embryological Collection*

Man, other Primates, some Insectivora. Address: R. O'Rahilly, Carnegie Laboratories of Embryology, University of California, Davis, CA 95616, U.S.A.

b) *Cornell University, Ithaca*

Sectioned embryos and slides; *Homo, Bos, Canis, Felis,* etc. Address: H. Evans, Department of Anatomy, New York State College of Veterinary Medicine, Cornell University, Ithaca, NY 14853, U.S.A.

c) *Zoology Museum, Madison* (formerly: *Mossman collection*)

Wet specimens and slides; mammals, primarily fetal membranes and male and female reproductive tract. Address: Zoology Museum, 415 Noland Zoology Building, 250 North Mills St., Madison, WI 53706, U.S.A.

d) *Hochstetter Collection, Wien*

Human embryos. Address: W. Zenker, Anatomisches Institut der Universität Wien, Währingerstrasse 13, Wien IX/68, Austria.

Membership List of the International Society of Developmental Biologists

This list was drawn up by the Secretary-Treasurer on September 1st, 1977. Full addresses of most of the European members can be found in the Directory of Names and Addresses in this issue. Full addresses of most members from countries outside Europe will appear in vol. 17 pt. 2.

* emeritus members
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J. T. Bonner, Princeton, N.J., '60
Ms. C. Borek, New York, N.Y., '74
E. Borghese, Napoli, '56
J.-C. Boucaut, Paris, '75
B. G. Boving, Detroit, Mich., '57
J. L. A. Brachet, Rhode-St.-Genèse, '48
S. K. Brahma, Utrecht, '66
A. C. Braun, New York, N.Y., '70
R. Brentani, Sao Paulo, '76
H. V. Brøndsted, Copenhagen, '48*
D. D. Brown, Baltimore, Md., '69
R. Brun, Chênc-Bougeries, '75
P. J. Bryant, Irvine, Calif., '72
Ms. S. V. Bryant, Irvine, Calif., '75
M. M. Bryden, St. Lucia, '75
D. N. Butcher, Cambridge, '70
J. M. Butros, Beirut, '67
R. D. Cahn, Seattle, Wash., '69
J. M. Cairns, Springville, N.Y., '69
R. Cambar, Talence, '57
R. Cambino, Napoli, '76
Ms. C. Campanella, Napoli, '76
Ms. C. C. Candelas, Rio Piedras, Puerto Rico, '77
E. C. Cantino, East Lansing, Mich., '70
A. I. Caplan, Cleveland, Ohio, '73
B. M. Carlson, Ann Arbor, Mich., '76
J. D. Caston, Cleveland, Ohio, '74
J. N. Cather, Ann Arbor, Mich., '75
Ms. M. Th. Chalumeau, Bobigny, '73
Ms. R. Chandebois, Marseille, '76
C. Y. Chang, Peking, '57
Ms. H. Charniaux (Cotton), Paris, '64
H. B. Chase, Providence, R. I., '60
D. Chen, Rehovot, '72
P. S. Chen, Zürich, '60
G. Chieffi, Napoli, '64
Chuang Hsiao-Hiu, Shanghai, '48
J. M. J. Clavert, Strasbourg, '57
Ms. R. M. Clayton (Freedman), Edinburgh, '60
A. C. Clement, Atlanta, Ga., '57*
G. Cognetti, Palermo, '76
S. Cohen, Nashville, Tenn., '64
J. R. Coleman, Providence, R. I., '70
A. M. Collenot, Ivry-sur-Scine, '69
J. R. Collier, Brooklyn, N.Y., '69
G. Colombo, Ferrara, '60
A. L. Colwin, Long Island, N.Y., '56*
Ms. L. Hunter Colwin, Long Island, N.Y., '60*
G. W. Conrad, Manhattan, Kansas, '75
M. A. Corner, Amsterdam, '72
D. P. Costello, Chapel Hill, N.C., '48
A. J. Coulombre, Bethesda, Md., '69
M. Crippa, Genève, '70
Y. Croisille, Nogent-sur-Marne, '66
P. S. Crowell, Bloomington, Ind., '60
A. S. G. Curtis, Glasgow, '69
G. Czihak, Salzburg, '74
H. C. Dalton, University Park, Pa., '70*
V. D'Amelio, Palermo, '64
Ms. F. Dameron, Nogent-sur-Marne, '70
Ms. J. C. Dan, Tokyo, '57

K. Dan, Tokyo, '57
J. C. Daniel, jr., Knoxville, Tenn., '70
I. B. Dawid, Baltimore, Md., '69
Ms. M. Decroly (Briers), Rhode-St.-Genèse, '71
R. L. DeHaan, Atlanta, Ga., '69
H. A. Denis, Gif-sur-Yvette, '69
Ms. S. Denis-Donini, Napoli, '76
Ms. B. De Petrocellis, Napoli, '72
Ms. T. A. Dettlaff, Moscow, '56
Ch. Devillers, Paris, '57
M. De Vincentiis, Napoli, '64
Ms. M. A. Di Berardino, Philadelphia, Pa., '66
Ms. D. F. Dieterlen (Lièvre), Nogent-sur-Marne, '68
Ms. W. Doane, Tempe, AZ, '74
A. Dollander, Nancy, '60
W. J. v. Doorenmaalen, Utrecht, '60
A. Dorfman, Chicago, Ill., '72
D. B. Drachman, Baltimore, Md., '70
N. I. Dragomirov, Moscow, '48
U. Drews, Münster, '74
Ms. A.-M. Duprat, Toulouse, '76
M. Durchon, Villeneuve d'Ascq, '69
F. Duspiva, Heidelberg, '69
R. M. Eakin, Berkeley, Calif., '48*
J. D. Ebert, Woods Hole, Mass., '56
J. M. Echave Llanos, La Plata, '73
E. M. Eddy, Seattle, Wash., '77
D. A. Ede, Glasgow, '73
A. Egelhaaf, Köln, '70
G. Eguchi, Kyoto, '69
S. Elias, Timisoara, '73
H. Emanuelsson, Lund, '72
M. Engelhardt, Copenhagen, '74
H. Engländer, Köln, '60
Ms. H. Esper Enesco, Montréal, Que., '74
W. Etkin, Bronx, N.Y., '70*
H. E. Evans, Ithaca, N.Y., '72
M. J. Evans, London, '77
Ms. H. Eyal (Giladi), Jerusalem, '64
J. Faber, Utrecht, '64
B. C. Fabian, Johannesburg, '77
J. F. Fallon, Madison, Wisc., '70
G. Fankhauser, Princeton, N.J., '48*
Ms. A. Fausto-Sterling, Providence, R.I., '75
J. C. Fautrez, Gent, '57
M. Feldman, Rehovot, '60
Dame H. B. Fell, Cambridge, Eng., '36*
W. R. Ferris, Tucson, Ariz., '70
Ms. A. A. Ficq, Rhode-St.-Genèse, '60
G. Filogamo, Torino, '60
C. V. Finnegan, Vancouver, B. C., '70
M. Fischberg, Genève, '57
A. Fischer, Köln, '75
D. A. Fischman, Chicago, Ill., '75
R. A. Flickinger, Buffalo, N.Y., '60
Ms. F. Martindale Foote, Carbondale, Ill., '64*
G. Forti, Bari, '70
L. Franklin, Covington, La., '70
M. Friedländer, New Haven, Conn., '70
T. Fujii, Tokyo, '60
C. M. Fulton, Waltham, Mass., '70
M. Furuya, Tokyo, '70
P. J. Gaillard, Leiden, '60*
J. G. Gall, New Haven, Conn., '69
J. Gallera, Genève, '57
C. L. Gallien, Paris, '73
B. B. Garber, Chicago, Ill., '74
W. L. M. Geilenkirchen, Utrecht, '72
N. B. Gilula, New York, N.Y., '77
A. Giroud, Paris, '48*
G. Giudice, Palermo, '69
R. W. Glade, Burlington, Vt., '70
T. W. Glenister, London, '60
Ms. A. Globerson, Rehovot, '70
Ms. S. Gluecksohn Waelsch, Bronx, N.Y., '60
S. C. Goel, Poona, '75
P. F. Goetinck, Storrs, Conn., '70
E. Goldwasser, Chicago, Ill., '71
R. J. Goss, Providence, R.I., '69
C. T. Grabowski, Coral Gables, Fla., '70
Ph. Grant, Eugene, Ore., '64
Ms. P. B. Green, Stanford, Calif., '70
J. H. Gregg, Gainesville, Fla., '69
J. R. Gregg, Durham, N.C., '57
T. A. I. Grillo, Ibadan, '66
C. Grobstein, La Jolla, Calif., '56
Z. Grodziński, Krakow, '60*
A. Gropp, Lübeck, '76
J. Gross, Boston, Mass., '70
P. R. Gross, Cambridge, Mass., '69
H. Grüneberg, London, '56
J. B. Gurdon, Cambridge, Engl., '69
T. Gustafson, Stockholm, '56
Ms. K. E. Haffen (Stenger), Strasbourg, '64
A. Haget, Talence, '60
T. Hama, Nagoya, '60
V. Hamburger, St. Louis, Mo., '48*
H. L. Hamilton, Charlottesville, Va., '56
J. Hämmerling, Wilhelmshaven, '60
W. S. Hammond, Syracuse, N.Y., '60
Ms. F. Hanocq, Rhode-St.-Genèse, '75
Ms. J. A. Hanocq (Quertier), Rhode-St.Genèse, '69
Ms. M. Hardy-Fallding, Guelph, Ont., '73
J. W. S. Harris, London, '68
M. Hašek, Praha, '57
R. E. Hausman, Chicago, Ill., '75
Ms. E. D. Hay, Boston, Mass., '64
Y. Hayashi, Tokyo, '60
W. G. Heim, Colorado Springs, Colo., '66
W. A. Hemmings, Bangor, Wales, '69
Ms. S. Hennen, Milwaukee, Wis., '70
H. Herrmann, Storrs, Conn., '60
O. Hess, Düsseldorf, '69
S. R. Hilfer, Philadelphia, Pa., '71
J. R. Hinchliffe, Aberystwyth, '75
Ms. G. W. Hinsch, Tampa, Fla., '70
Y, Hiramoto, Tokyo, '60
H. Holter, Copenhagen, '57*
J. K. F. Holtfreter, Rochester, N.Y., '36*
T. J. Horder, Oxford, '76
R. Hori, Toyama, '76
Ms. C. Horváth, Paris, '72
Y. Hotta, La Jolla, Calif., '70
Ch. Houillon, Paris, '67
Ms. D. Huchon, Paris, '75
J. M. T. Hultin, Stockholm, '56
R. R. Humphrey, Bloomington, Ind., '49*
T. D. Humphreys, Honolulu, Hawaii, '70
J. Ilan, Cleveland, Ohio
J. Ishida, Tokyo, '60
K. Ishihara, Saitama, '76
M. Ishikawa, Matsuyama, '70
Ms. L. E. Iten, Irvine, Calif., '76
A. G. Jacobson, Austin, Tex., '70
D. C. O. Jacobson, Uppsala, '69
L. F. Jaffe, Lafayette, Ind., '70
Ms. A. G. Johnen, Köln, '64
A. D. Jost, Paris, '56
Ms. C. Kafiani, Moscow, '73
A. J. B. Källén, Lund, '60
P. P. Kallio, Turku, '70
H. Kanatani, Tokyo, '71
R. E. Kane, Honolulu, Hawaii, '72
Y. Kanoh, Akkeshi, '60
S. Karasaki, Montréal, Que., '69
P. R. Karfunkel, Amherst, Mass., '74

I. Kawakami, Fukuoka, '57
L. H. Kedes, Palo Alto, Calif., '71
N. E. Kemp, Ann Arbor, Mich., '57
A. Keynan, Jerusalem, '70
R. C. King, Evanston, Ill., '70
S. Kinoshita, Tokyo, '77
V. Kiortsis, Athens, '69
Y. Kishida, Kanazawa, '77
A. O. Klein, Waltham, Mass., '70
N. W. Klein, Storrs, Conn., '70
Ms. U. Kocher (Becker), Berlin, '66
W. Kocher, Würzburg, '66
L. D. Koehler, Mt. Pleasant, Mich., '70
E. J. Kollar, Farmington, Conn., '70
Y. C. Kong, Hong Kong, '75
I. R. Konigsberg, Charlottesville, Va., '69
K. Kratochwil, Salzburg, '69
G. Krause, Würzburg, '56
A. Krishnakumaran, Milwaukee, Wis., '70
R. G. Kulka, Jerusalem, '71
Ms. T. K. Kuusi, Helsinki, '56
Ms. M. Labrousse, Paris, '73
T. C. Lacalli, Saskatoon, '76
J. C. Lacroix, Ivry-sur-Seine, '69
R. A. Lallier, Villefranche-sur-Mer, '60
C. C. Lambert, Fullerton, Calif., '77
W. Landauer, London, '57*
A. Lang, East Lansing, Mich., '70
J. Langman, Charlottesville, Va., '56
J. Lash, Philadelphia, Pa., '69
H. Laufer, Storrs, Conn., '69
P. A. Lawrence, Cambridge, Eng., '75
Ms. L. Lazard (Hauben), Nogent-sur-Marne, '68
G. LeDouarin, Nantes,
N. LeDouarin, Nogent-sur-Marne, '74
S. Leghissa, Bologna, '60
H. E. Lehman, Chapel Hill, N.C., '57
J. Leighton, Philadelphia, Pa., '70
A. Leikola, Helsinki, '76
H. M. Lenhoff, Irvine, Calif., '70
V. Leone, Milano, '57
Ms. R. Levi-Montalcini, St Louis, Mo., '56
J. E. Lilien, Madison, Wis., '73
H. F. Linskens, Nijmegen, '73
B. H. Lipton, Madison, Wis., '74
G. V. Lopashov, Moscow, '48
D. S. Love, Cleveland, Ohio, '74
S. Løvtrup, Umeå, '60
H. Lutz, Aubière, '57
D. Luzatti, Paris, '72
D. J. McCallion, Hamilton, Ont., '64
D. S. McDevitt, Philadelphia, Pa., '64
K. Madhavan, Irvine, Calif., '75
A. P. Mahowald, Bloomington, Ind., '75
G. M. Malacinski, Bloomington, Ind., '73
Ms. P. Malpoix (Higgins), Rhode-St.-Genèse, '72
G. Mancino, Pisa, '70
H. Manelli, Roma, '76
F. Manzia, Roma, '76
K. Maramorosch, Yonkers, N.Y., '70
Ms. L. Marin (Lewin), Nogent-sur-Marne, '68
C. L. Markert, New Haven, Conn., '57
P. A. Marks, New York, N.Y., '70
E. Marrè, Milano, '69
J. P. Mascarenhas, Albany, N.Y., '70
Y. Masui, Toronto, Ont., '69
S. Meier, Los Angeles, Calif., '75
B. Menkes, Timisoara, '73
S. Metafora, Napoli, '71
C. B. Metz, Coral Gables, '56
J.-J. Meusy, Paris, '70
M. I. Michael, Alexandria, '75
Y. Mikami, Tsu, '60
J. Milaire, Bruxelles, '64
R. Milkman, Iowa City, Iowa, '70
A. Minganti, Genova, '56
Ms. B. Mintz, Philadelphia, Pa., '57
T. Mizuno, Tokyo, '75
B. Moav, Tel-Aviv, '72
M. Molinaro, Roma, '76
V. Monesi, Roma, '76
A. Monroy, Napoli, '56
Ms. F. Moog, St Louis, Mo., '56
Ms. B. Clark Moore, Riverside, Calif., '69
J. A. Moore, Riverside, Calif., '57
J. Morrill, Sarasota, Fla., '73
Ms. V. B. Morris, Sidney, '73
Ms. G. M. Morriss, Oxford, '75
A. A. Moscona, Chicago, Ill., '57
H. W. Mossman, Madison, Wis., '56*
I. Motomura, Sendai, '57*
Ms. L. Mulherkar, Poona, '69*
J. G. Mulnard, Bruxelles, '57
Ms. M. R. Murray, Bethesda, Md., '60
V. Mutolo, Palermo, '70
G. W. Nace, Ann Arbor, Mich., '60
O. Nakamura, Osaka, '57
E. Nakano, Nagoya, '57
J. Needham, Cambridge, Eng., '48*
L. Nelson, Toledo, Ohio, '70
M. Nemer, Philadelphia, Pa., '69
D. A. T. New, Cambridge, Eng., '69
D. R. Newth, Glasgow, '57
G. Nicolet, Genève, '69
P. D. Nieuwkoop, Utrecht, '57
H. Nishimura, Kawasaki, '69
M. C. Niu, Philadelphia, Pa., '56
S. Nordling, Helsinki, '76
H. Oberlander, Gainesville, Fla., '73
I. Ohad, Jerusalem, '75
T. Oikawa, Yamagata, '76
H. Oka, Tokyo, '60*
M. Okada, Ibaraki, '77
T. S. Okada, Kyoto, '73
Y. K. Okada, Tokyo, '52*
Ms. K. Okazaki, Tokyo, '60
O. M. Olivo, Bologna, '57
Ms. J. M. Oppenheimer, Bryn Mawr, Pa., '56
R. O'Rahilly, Davis, Calif., '64
Ms. M. C. Ward Orsini, Madison, Wis., '64
Ms. E. Ortiz, Rio Piedras, Puerto Rico, '70
J. R. Ortiz, Rio Piedras, Puerto Rico, '76
F. Orts Llorca, Madrid, '56*
D. S. Ostrovsky, Millerville, Pa., '76
Ms. J. H. Overton, Chicago, Ill., '60
H. Ozaki, East Lansing, Mich., '75
Ms. H. A. Padykula, Wellesley, Mass., '70
S. Pai, Shanghai, '48
J. Papaconstantinou, Oak Ridge, Tenn., '69
E. Parisi, Napoli, '72
P. Pasquini, Roma, '57*
J. J. Pasteels, Bruxelles, '38
J. Paul, Glasgow, '69
C. Pelling, Tübingen, '69
L. J. Pelliniemi, Turku, '77
S. Penman, Cambridge, Mass., '69
H. P. Perlmann, Stockholm, '60
T. Pexieder, Lausanne, '75
J. Piatigorsky, Bethesda, Md., '70
J. J. Picard, Louvain-la-Neuve, '77
B. Picheral, Rennes, '75
L. J. Pierro, Storrs, Conn., '70
L. Pikó, Sepulveda, Calif., '64
J. D. Pitts, Glasgow, '76
L. V. Polezhaev, Moscow, '48
K. R. Porter, Boulder, Colo., '64
J. Postlethwait, Eugene, Oreg., '75

D. F. Poulson, New Haven, Conn., '60
Ms. N. M. Pourreau (Schneider), Kremlin-Bicêtre, '68
Ms. D. Price, Chicago, Ill., '60*
R. J. Przybylski, Cleveland, Ohio, '74
S. Ranzi, Milano, '48
J. Rapola, Helsinki, '69
L. Raunich, Ferrara, '56
Chr. P. Raven, Utrecht, '41
A. Raynaud, Sannois, '60
O. R. Reeves, Vancouver, '76
G. Reverberi, Palermo, '48*
R. W. Reyer, Morgantown, W. Va., '56
R. A. Rifkind, New York, N.Y., '70
Ms. L. Rinaldi, Parma, '70
L. Robert, Créteil, '72
G. G. Robertson, Memphis, Tenn., '66
E. A. Rollins, Springfield, Ill., '70
S. M. Rose, Belle Chasse, La., '56*
J. Rostand, Ville d'Avray, '60*
L. N. Ruben, Portland, Ore., '68
J. V. Ruch, Strasbourg, '69
F. H. Ruddle, New Haven, Conn., '70
Ms. D. Rudnick, New Haven, Conn., '56*
M. N. Runner, Boulder, Colo., '60
S. Russo-Caia, Roma, '74
L. Sachs, Rehovoth, '70
T. Sachs, Jerusalem, '70
H. Sakai, Tokyo, '69
M. Sala, Padova, '60
Ms. J. Salaün, Nogent-sur-Marne, '71
Ms. B. Salzgeber, Nogent-sur-Marne, '64
K. Sander, Freiburg, '66
S. Sandor, Timisoara, '73
T. Sato, Nagoya, '57
N. Satoh, Kyoto, '77
H. W. Sauer, Würzburg, '70
J. W. Saunders, Albany, N.Y., '56
L. O. Saxén, Helsinki, '60
E. Scarano, Napoli, '69
Ms. D. Scheib (Pfleger), Nogent-sur-Marne, '64
K. Scherrer, Paris, '69
J. A. Schiff, Waltham, Mass., '70
H. A. Schneiderman, Irvine, Calif., '64
Ms. J. Schoeller (Raccaud), Paris, '69
O. E. Schotté, Amherst, Mass., '56
B. Schreiber, Parma, '56
T. E. Schroeder, Friday Harbor, Wash., '70
H. M. Schulman, Montréal, Que., '69
Ms. N. B. Schwartz, Chicago, Ill., '77
R. L. Searls, Philadelphia, Pa., '70
S. N. Sedra, Alexandria, '60
R. E. Seegmiller, Provo, Utah, '77
S. J. Segal, New York, N.Y., '57
F. Seidel, Marburg, '60*
G. G. Selman, Edinburgh, '60
K. Sembrat, Wrocław, '60
Ph. Sengel, Grenoble, '60
Ms. M. A. Sengel (Kieny), Grenoble,
P. Sentein, Montpellier, '60
S. Shapiro, Amherst, Mass., '70
J. R. Shaver, East Lansing, Mich., '60
S. C. Chen, New York, N.Y., '60
G. V. Sherbet, London, '75
Y. Shimada, Chiba, '75
K. Shiokawa, Fukuoka, '75
C. A. Shivers, Knoxville, Tenn., '73
S. Shostak, Pittsburgh, Pa., '70
A. Sibatani, Epping, '76
R. E. Sicard, Boston, Mass., '75
J. Signoret, Caen, '67
M. Sigot, Nogent-sur-Marne, '71
M. Singer, Cleveland, Ohio, '69
G. Siracusa, Roma, '76
J. L. Sirlin, New York, N.Y., '60
Ms. D. M. Skinner, Oak Ridge, Tenn., '70
F. Skoog, Madison, Wis., '70
N. Škreb, Zagreb, '60
F. Sládecek, Praha, '60
H. C. Slavkin, Los Angeles, Calif., '74
L. D. Smith, Argonne, Ill., '69
Ms. S. Smith-Gill, Washington, D.C., '76
D. R. Sonneborn, Madison, Wis., '73
L. I. Soriano, Nogent-sur-Marne, '70
R. W. Sperry, Pasadena, Calif., '64
M. Spiegel, Hanover, N.H., '64
A. A. Spirin, Moscow, '69
A. Spirito, Roma, '56
P. Stambrook, Cleveland, Ohio, '76
A. Stefanelli, Roma, '52
M. Stefanini, Roma, '76
M. S. Steinberg, Princeton, N.J., '69
Ms. F. Stéphan (Dubois), Nancy, '60
S. Stern, Boston, Mass., '73
L. C. Stevens, Bar Harbor, Me., '69
F. E. Stockdale, Stanford, Calif., '71
L. S. Stone, New Haven, Conn., '48*
F. Strauss, Kehrsatz, '60*
G. Strudel, Nogent-sur-Marne, '64
S. Subtelny, Houston, Tex., '69
H. Sugino, Osaka, '57
M. Sugiyama, Nagoya, '57
M. Sussman, Pittsburgh, Pa., '69
F. Suzuki, Osaka, '77
G. Székely, Debrecen, '69
A. E. Szulman, Pittsburgh, Pa., '73
C. Taddei, Napoli, '76
H. Takahashi, Hakodate, '70
K. Takata, Nagoya, '60
H. Takaya, Kobe, '57
I. Takeuchi, Kasugai, '75
P. Tardent, Zürich, '69
D. Tarin, London, '73
A. K. Tarkowski, Warszawa, '60
A. C. Taylor, Houston, Tex., '57
J. D. Taylor, Detroit, Mich., '73
N. Telang, Bombay, '76
Ms. R. Tencer, Rhode-St.-Genèse, '70
H. Terayama, Tokyo, '75
Ch. Thomas, Rhode-St.-Genèse, '75
H. Tiedemann, Berlin, '60
C. A. du Toit, Stellenbosch, '60*
S. I. Toivonen, Helsinki, '48
G. Töndury, Zürich, '48*
H. A. L. Trampusch, Amsterdam, '56*
R. L. Trelstad, Boston, Mass., '70
J. P. Trinkaus, New Haven, Conn., '60
D. E. S. Truman, Edinburgh, '71
H. Tuchmann-Duplessis, Paris, '56
P. H. Tuft, Edinburgh, '64
T. C. Tung, Peking, '48
K. S. Tweedell, Notre Dame, Ind., '70
Ms. S. L. Ullmann, Glasgow, '70
E. Urbani, Roma, '56
H. Ursprung, Zürich, '69
L. C. A. Vakaet, Antwerpen, '60
G. Vandebroek, Louvain, '57
Ms. P. Van Gansen (Rasmont), Rhode-St.-Genèse, '70
N. H. Verdonk, Utrecht, '74
W. S. Vincent, Newark, Dela., '60
M. C. Vittorelli, Palermo, '76
E. P. Volpe, New Orleans, La., '70
O. E. Vyazov, Moscow, '60
R. A. Wallace, Oak Ridge, Tenn., '69
J. J. Wartiovaara, Helsinki, '70
A. J. Waterman, Bethesda, Md., '56*
A. Watson, Ithaca, N.Y., '76

R. L. Watterson, Urbana, Ill., '56
R. Weber, Bern, '60
P. A. Weiss, New York, N.Y., '48*
L. J. Wells, Minneapolis, Minn., '60*
B. S. Wenger, Saskatoon, Sask., '70
N. K. Wessells, Stanford, Calif., '69
J. A. Weston, Eugene, Ore., '70
A. H. Whiteley, Seattle, Wash., '57
G. S. Whitt, Urbana, Ill., '76
J. R. Whittaker, Philadelphia, Pa., '70
Sir V. B. Wigglesworth, Cambridge, Eng., '57*
C. E. Wilde, jr., Kingston, R.I., '57
R. Williamson, London, '72
F. H. Wilt, Berkeley, Calif., '69
W. A. Wimsatt, Ithaca, N.Y., '56
C. v. Woellwarth, Ditzingen, '56
Ms. Em. Wolff (Hennig), Paris, '64
Et. C. Wolff, Paris, '48*
L. Wolpert, London, '69
A. Wolsky, New York, N.Y., '60
J. P. Wourms, Clemson, S.C.,
C. C. Wylie, London, '77
D. Yaffe, Rehovot, '70
J. Yamada, Hakodate, '70
T. Yamada, Epalinges, '57
K. Yamamoto, Hakodate, '60
T. Yamamoto, Nagoya, '60
K. Yamana, Fukuoka, '75
G. Yanagami, Tokyo, '76
T. Yanagisawa, Tokyo, '77
C. J. Yntema, Syracuse, N.Y., '48*
Ms. J. J. P. Zaayer, Leiden, '60
A. A. Zimmerman, Houston, Tex., '56*
J. Zwaan, Boston, Mass., '69

BOOK NOTICES

Most of these notices are descriptive rather than critical. Their main aim is to provide an idea of the scope and potential usefulness of the books. All notices (unless signed) are written by the editor; if necessary he solicits the opinion of the staff of the Hubrecht Laboratory or of other specialists.

Dissertations, some research monographs, and other works of a very specialized nature or written in languages not generally known, are usually provided with brief annotations only.

Various types of books are distinguished according to the following criteria:

Treatises: large comparative or systematic works, incl. serial publications
Textbooks: incl. "readers", introductions, compendia, practical manuals, etc.
Monographs: incl. collections of reviews, essays, atlases etc.
Dissertations: academic theses
Symposium reports: incl. reports of congresses, conferences, meetings, etc.
Collections of papers: containing original research papers by various authors, or reprintings of papers by one author
Books of readings: containing reprintings of papers by various authors
Reference works: incl. glossaries, data books, source books, etc.

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GENERAL DEVELOPMENTAL BIOLOGY (see also 46, 86, 94, 99)

Textbooks

1.
N. J. BERRILL and G. KARP. 1976. DEVELOPMENT
McGraw-Hill, New York, etc. X,566 pp., 332 figs., 3 tabs., subject index. $ 15.95, £ 10.85

This text can be conveniently contrasted with Berrill's "Developmental Biology" issued by the same publisher in 1971. The present book is more conventional in the arrangement of its subject matter but the scope is similar and it is equally excellent in its way. Perhaps this book is more suitable for the usual type of developmental biology course.

The treatment is beautifully balanced and integrated and the style is fluent and captivating. Equal attention goes to structural, cellular and molecular aspects, and the integration of the organism is emphasised throughout. Examples from the world of plants are restricted. Special features are separate chapters on the immune system, malignancy, aging, metamorphosis, regeneration, and asexual development. (Two subjects that are conspicuously lacking are germ cell determinants and induction in the amphibian blastula.) There is a most useful brief appendix on the sophisticated modern methods in use today.

The illustrations, many of which are the same as in the earlier book, are well chosen, have good captions, and are well reproduced. The reading lists at the end of all chapters are excellent.

2.
C. F. GRAHAM and P. F. WAREING, eds. 1976. THE DEVELOPMENTAL BIOLOGY OF PLANTS AND ANIMALS
Blackwell, Oxford, etc. XII, 393 pp., 238 figs., 33 tabs., combined subject and taxonomic index. £ 7.75 (paper)

Contents (abridged): Part 1, The origin of cell heterogeneity in early development; Part 2, Determination and pluripotentiality; Part 3, Cell interactions in development; Part 4, Hormonal control of development; Part 5, The molecular biology of development; Part 6, Environmental control of development. (23 chapters)

This is the first unified account of plant and animal development written for advanced undergraduate and graduate courses, at least in English. It was written by 20 predominantly British authors, established authorities as well as younger people. The starting point in selecting topics was that they would be treated in depth rather than giving comprehensive coverage at a general level; hence, topics were chosen both for their general bearing and for the amount of well-established information available on them. The editors have been very successful in integrating the chapters by introducing and summarising the

Parts and by extensive cross-referencing. Although there of course remain differences in style among the chapters, the result is a very readable and stimulating whole. The relatedness of plant and animal data is very well brought out throughout the text. Moreover, the treatment is as up to date as can be desired in such a collaborative undertaking.

Of course there always remain grounds for criticism. In one of the areas with which this reviewer is most familiar, it has been obvious to him that the author of ch.3.6 (Pattern formation in animal embryos) is not intimately acquainted with amphibian embryogenesis or its literature. This is most apparent in his neglect of mesoderm induction in the blastula, a phenomenon discovered by Nieuwkoop and others about a decade ago. (Although the chapter contains interesting ideas it is written in a rather out-of-the-way manner.) The same criticism applies to ch.3.4 (Embryonic induction), which has a somewhat parochial reference list; moreover, it uses the important notion of competence but fails to define it.

The numerous illustrations, both photographs and drawings, have good captions and add greatly to the value of the text; some of the diagrams are feats of didactic clarity. The index is extensive.

3.
P. J. HOGARTH. 1976. VIVIPARITY
Arnold, London. Studies in Biology no. 75. IV, 68 pp., 24 figs., 2 tabs. £ 3.00 (cloth), £ 1.50 (paper)

This is a selective but useful survey of the very varied types of viviparity found in many vertebrate groups as well as invertebrates. Ovoviviparity is included because it cannot be distinguished reliably from true viviparity. The line drawings are very simple and often insufficiently labelled. There is a glossary pertaining to reproductive hormones and a useful reading list.

4.
A. C. NEVILLE. 1976. ANIMAL ASYMMETRY
Arnold, London. Studies in Biology 67. IV, 60 pp., 51 figs., 5 tabs. £ 2.60 (cloth), $ 1.30 (paper)

This little book is fun to read and, though far from exhaustive, gives many interesting examples of morphological, developmental and functional asymmetries. However, it is too synoptic and too incompletely documented to perform a useful function for the researcher. It raises many questions but hardly begins to provide the answers. The illustrations are simple but adequate.

5.
F. SEIDEL. 1975-1976. ENTWICKLUNGSPHYSIOLOGIE DER TIERE. II and III. 2nd. ed.
de Gruyter, Berlin, etc. Sammlung Göschen Band 2601, 2602
Band II (1975) Bildung der Körpergrundgestalt. 238 pp., 47 figs., author and subject indexes. DM 19.80 (paper)
Band III (1976) Morphologische und histologische Differenzierung der Organe. 199 pp., 33 figs., author and subject indexes. DM 19.80 (paper)

The first part (1972) of this three-part text was reviewed in Gen. Embryol. Inf. Serv. *15, 2,* 1974. The laudatory first paragraph of that review on the whole applies equally to the present two books, yet this reviewer feels more critical about them. The major subdivisions of the original book, which is now almost a quarter of a century old, have been retained, and because the incorporation of newer data has been erratic the books definitely impress one as somewhat dated.

Although the presentation of the older data remains excellent, there are curious gaps in the newer data. To mention a few examples: modern work on gradients in insects is

not represented; there is no mention of mesoderm induction in the amphibian blastula; the data on imaginal discs are mostly very old and data on homoeotic mutants are lacking: the information on polar granules in insects is scanty; and cellular metaplasia in amphibian lens regeneration is not mentioned. The selective reference list of some 260 titles reflects these and other gaps.

The books are well illustrated and have good glossaries.

Monographs

6.
D. H. O'DAY and P. A. HORGEN, eds. 1977. EUCARYOTIC MICROBES AS MODEL DEVELOPMENTAL SYSTEMS
Dekker, New York, etc. Microbiology Series vol.2. XIV, 440 pp., 116 figs., 41 tabs., author index, combined subject & species index. SFr. 130.00

Contributors: Dingle, Durston, Francis, Haber, Horgen, Johnson, Kochert, LéJohn, LeStourgeon, Loomis, Lovett, O'Day, Sutter, Thompson, Van Etten, Wright, Yuyama

This volume shows convincingly how much primitive eucaryotic organisms are already contributing to the solution of several basic problems of development, and how great is their potential. It is a series of reviews of current research by predominantly American and Canadian authors, and can be recommended to all developmental biologists, including those preparing courses or books.

The 17 chapters deal with a great variety of "microbes" (in a very broad sense): various unicellular organisms, a colonial alga, true and cellular slime moulds, and various fungi. The chapters are arranged in three parts, each preceded by a brief editors' introduction which places them in a general perspective and facilitates reading by non-specialists.

Part I (Growth and cellular differentiation, 9 chapters) deals with genetic analysis of development, transcription, and enzyme accumulation and function. Part II (Cell communication and morphogenesis, 4 chs.) discusses four different types of effectors: glycoproteins, terpenoid and steroid hormones, and cyclic nucleotides. Part III (Dormancy and germination, 4 chs.) considers membrane behaviour, extracellular enzymes, and macromolecular synthesis.

The book is produced in good offset print but has relatively few illustrations, in view of which the price seems excessive.

Books of readings

7.
C. FULTON and A. O. KLEIN. 1976. EXPLORATIONS IN DEVELOPMENTAL BIOLOGY
Harvard Univ. Press, Cambridge, Mass., etc. XVI, 704 pp., numerous figs. and tabs., subject index (including authors of papers). $ 17.50, £ 11.90

Contents: Introduction; Phenotypic change with genotypic constancy (4 papers); Development as a problem of differential gene function (8); From protein synthesis to ordered structures (10); Multicellularity; cell interactions in development (13); Cell differentiation (19); Development beyond the embryo (5)

Rather than producing another standard text the authors have chosen to assemble a large number of original research papers in fascimile print, linking them up with much background material and sometimes extensive comment. They have tried to make the book readable for students with one year of general biology and genetics. Although it is always possible to disagree about details of selection and omission, the present reviewer found their approach stimulating, their coverage admirable, and their editorial efforts on the whole successful.

The six main sections listed above are subdivided into 22 chapters. In most of these the

papers range from the late fifties or early sixties to the early seventies. The oldest papers are those by Spemann and Mangold ('24), Waddington, Needham and Needham ('33), and DuShane ('35). The last main section has chapters on the genesis of neural connections and on autonomous growth in plants (crown-gall tumour). Most of the research papers are on current animal developing systems, but there are also papers on *Lilium* (anthers), *Blastocladiella* (spore germination), *Dictyostelium* (enzyme programmes), and various unicellular organisms and bacteriophages (self-assembly). Mammalian embryos are only considered in connection with the clonal origin of melanocytes.

The book is attractively produced. The editorial sections have their own very good illustrations.

THEORETICAL AND MATHEMATICAL DEVELOPMENTAL BIOLOGY (see also 20, 21,107)

Symposium reports

8.
S. A. LEVIN, ed. 1974. SOME MATHEMATICAL QUESTIONS IN BIOLOGY. VI
Amer. Mathem. Soc., Providence, R. I. Lectures on Mathematics in the Life Sciences, vol. 7. VI, 232 pp., 69 figs.

It is a pity that these volumes are not widely publicised and therefore reach us very late. Much of the material may therefore by now be superseded. We will content ourselves with briefly enumerating those contributions that might still be of interest to our readers.

The first is a long article by Zeeman on primary and secondary waves in developmental biology. He applies the now much debated catastrophe theory to embryogenesis in amphibians and to slime mould culmination. Gierer and Meinhardt discuss pattern formation involving "lateral inhibition" and outline several possible biological applications. Blomfield (from Lawrence and Crick's group) presents a diffusion model of pattern formation in the insect cuticle. Finally Kopell and Howard discuss "pattern formation" in the Belousov (or Zhabotinskii) reaction, a non-biological oscillating system.

9.
A. LINDENMAYER and G. ROZENBERG, eds. 1976. AUTOMATA, LANGUAGES, DEVELOPMENT
North-Holland, Amsterdam, etc. VIII, 529 pp., 147 figs. Dfl. 120.00, $ 46.00

This volume is the result of an international conference held in the Netherlands in the spring of 1975. In it took part biologists, mathematicians and computer scientists from many different countries, predominantly in Western Europe. Of the 38 contributions seven are reviews and the rest research reports.

The papers are arranged in four parts as follows: Mathematical and computer models of development (12 papers), Theory of L systems (17), Cellular automata theory (3), and Parallel graph generating and related systems (6). Almost all of the papers of direct developmental relevance are to be found in part one. These cover not only branching systems in plants but also a variety of animal developing systems and growth phenomena generally. Two or three papers in the other parts have some relevance to development beyond the strictly mathematical. Part four represents a very new field of research, which may be the first step towards the application of L systems in more than one dimension, in other words, to more complex patterns than those characteristic of linear branching structures.

Treatises

10.
W.BRAUNE, A.LEMAN and H.TAUBERT. 1976. PRAKTIKUM ZUR MORPHOLOGIE UND ENTWICKLUNGSGESCHICHTE DER PFLANZEN, zur Einführung in den Bau, das Fortpflanzungsgeschehen und die Ontogenie der niederen Pflanzen und die Embryologie der Spermatophyta
Fischer, Jena. 448 pp., 128 figs., subject and taxonomic indexes. 37.00 M., DM 39.00

This is an enormously rich work. Although conceived as an educational aid, it will also be very useful as a reference work for researchers, particularly because of the illustrations and the wealth of practical information it contains. Some 600 plant genera and species are described or at least mentioned in the book, all of them forms that are easily available in nature.

The subject matter is arranged strictly taxonomically, beginning with the bacteria and ending with the angiosperms (forms lower than the spermatophytes occupy more than 80% of the volume). The mode of treatment is dictated by practical considerations and varies according to the relative emphasis on e.g. phylogenetic and ontogenetic viewpoints, wealth of forms, ecological relationships or economic significance. Most of the 30-odd subdivisions are preceded by a brief theoretical section, often including a review of the taxonomy and/or a determination key.

All the illustrations are original. The main figures are either beautiful line drawings or plates consisting of hundreds of mostly excellent photographs taken with a variety of techniques. In addition, numerous good line drawings and diagrams in the page margins serve to clarify the text. The book is very cheap for its high standard of production.

Textbooks

11.
S. S. BHOJWANI and S. P. BHATNAGAR. 1975. THE EMBRYOLOGY OF ANGIOSPERMS
Vikas, New Delhi, etc. XIV, 264 pp., 170 figs., 19 tabs., combined author, taxonomic and subject index. Rs 14.25 (paper)

The first edition of this book appeared in 1974 and was reviewed in Gen. Embryol. Inform. Serv. *16*, 2, 1976. For the present edition the text has been completely revised but there are no major changes. Some photographs have been replaced by line drawings.

12.
H. E. STREET and H. ÖPIK. 1976. THE PHYSIOLOGY OF FLOWERING PLANTS: their growth and development. 2nd edit.
Arnold, London. A series of student texts in contemporary biology. VIII, 280 pp., 96 figs., 14 tabs., combined author, taxonomic and subject index. £ 9.00 (cloth), £ 4.50 (paper)

The first edition of this book appeared in 1970 and was reviewed in Gen. Embryol. Inf. Serv. *14*, 1971. The book has been updated and also extended particularly in the parts dealing with development. The original 39-page chapter on Morphogenesis and development has been replaced by two chapters, one on Vegetative development and one on Reproductive development (together 54 pp.). There are now separate sections on apical dominance, bud dormancy, and photomorphogenesis.

Some new illustrations have been inserted and the reading lists have been updated.

13.
J.A. BRYANT, ed. 1976. MOLECULAR ASPECTS OF GENE EXPRESSION IN PLANTS
Academic Press, London, etc. Experimental Botany: An International Series of Monographs, vol. 11. X, 338 pp., 113 figs., 25 tabs., combined species and subject index. £ 9.60, $ 21.00

Contents: 1. Nuclear DNA (Bryant); 2. RNA structure and metabolism (Grierson); 3. Protein synthesis (Bray); 4. Nucleic acids and protein synthesis in chloroplasts and mitochondria (Bryant); 5. The cell cycle (Bryant); 6. Molecular aspects of differentiation (Bryant); 7. Plant growth substances (Trewavas)

This book is stated to be the first to deal specifically with this subject, and arose out of a much-felt need. It is written by a team of British experts and will be of great use to graduate students, research workers and lecturers.

The last three chapters are of most immediate interest to our readers. Together they occupy 122 pages. Ch.6 is very selective and concentrates on examples that clearly illustrate general principles and current hypotheses. Ch.7 is concluded by a new unifying hypothesis that relates the effects of plant growth substances to membrane physiology. All chapters are well written and adequately cross-referenced. All have a brief list of suggestions for further reading.

The bulk of the references are brought together in a bibliography of close to 550 titles which runs far into 1975. The book is well produced and illustrated mainly with diagrams and graphs. Much material is condensed into useful tables.

14.
M. E. CONKLIN. 1976. GENETIC AND BIOCHEMICAL ASPECTS OF THE DEVELOPMENT OF DATURA
Karger, Basel, etc. Monographs in Developmental Biology Vol. 12. X, 170 pp., 13 figs., 4 tabs., author and subject indexes. SFr. 75.00, DM 75.00, ca.$ 29.00 (paper)

The author of this monograph has been familiar with the genus *Datura* for over 30 years. The book is a well-organised review of almost all that is known of the herbaceous species of this genus, with emphasis on the advances of the last 15 years.

Of the 12 chapters we mention The *Datura* life cycle (26 pp.), Embryogenesis *in vitro* (8 pp.), Androgenesis and the production of haploids (11 pp.), *In vitro* culture of tissues or cells (3 pp.), Factors affecting growth and development (11 pp.), Abnormal tissue development and tumorisation (8 pp.), and Isozymes (7 pp.). The ontogeny of alkaloids is also reviewed.

The book is scantily illustrated but has some good photographic plates. The bibliography of over 400 titles runs well into 1974.

15.
H. van den ENDE. 1976. SEXUAL INTERACTIONS IN PLANTS, the role of specific substances in sexual reproduction
Academic Press, London, etc. VIII, 186 pp., 38 figs., 26 tabs., combined subject and taxonomic index. £ 7.80

Inasmuch as sexual reproduction involves the differentiation of sex organs and sex cells, the subject of this monograph belongs to developmental biology. The book is intended as an introduction for students but will certainly be of interest to investigators. The author, who has worked in the area for a decade or more, devotes special attention to the molecular aspects both of hormone-mediated and cell-to-cell interactions.

A lengthy introductory chapter places the subject in perspective and devotes considerable attention to hormone receptors and cell surface constituents in animal systems. The

rest of the book is taken up by a series of chapters of varying length which examine specific groups or species separately: Fungi (3 chapters), yeasts (1), algae (4), ferns (1), and flowering plants (1).

The book is well produced and has good illustrations, both line drawings and photographs. The bibliography contains more than 350 titles and is up to date until early 1975.

16.

M. LUCKNER, L. NOVER, and H. BÖHM. 1977. SECONDARY METABOLISM AND CELL DIFFERENTIATION

Springer, Berlin, etc. Molecular Biology, Biochemistry and Biophysics, vol. 23. VI, 130 pp., 52 figs., 7 tabs., subject index. DM 48.00, $ 21.20

The bulk of this book consists of an interesting review of some 80 pages by Luckner and Nover (Halle, DDR) entitled Expression of secondary metabolism- An aspect of cell specialization of microorganisms, higher plants, and animals. It deals with what may be broadly called differentiation programmes (with special reference to the formation of the enzymes of secondary metabolism), their effectors, and their temporal integration. Although the majority of the evidence reviewed is derived from microorganisms and plants, some animal examples are also discussed. The references from the international literature cover 20 pages and are up to date until early 1976.

The second review by Böhm (Halle, DDR) discusses the secondary metabolism of cultured plant cells and the problem of why these often fail to form secondary substances. The bibliography of this article contains many recent publications in German.

The book is produced in good offset print and is illustrated mainly with graphs.

17.

V. RAGHAVAN. 1976. EXPERIMENTAL EMBRYOGENESIS IN VASCULAR PLANTS

Academic Press, London, etc. Experimental Botany; an International Series of Monographs, vol.10. X, 603 pp., 156 figs., 17 tabs., author, taxonomic and subject indexes. £ 21.00, $ 46.00

This is the first book to be devoted entirely to this subject and it is likely to be the major survey and reference work for many years. The author has been actively involved in research in this field for over a decade and therefore writes with authority. Because he knows the whole literature he is able to point out the major (and indeed large) gaps that still exist in our knowledge.

The book is in three sections, the first of which is entitled, From egg to embryo and occupies about three quarters of the book. The first five chapters review the structural, biochemical, growth and nutritional aspects of embryogenesis. The remaining six chapters then deal with *in vitro* studies, various aspects of the control of embryogenesis, and applied aspects of embryo culture. Section Two (62 pp.) deals with diploid and haploid adventive embryogenesis, and Section Three (46 pp.) with seed dormancy and germination viewed as a problem of the auto-inhibition of growth. An appendix lists 18 of the most commonly used media for embryo culture.

The book is profusely illustrated with good line drawings and photographs (some of the electron micrographs are too darkly reproduced). The bibliography of close to 2.000 entries contains many titles in languages other than English and is up to date until 1974.

18.
L. W. ROBERTS. 1976. CYTODIFFERENTIATION IN PLANTS, xylogenesis as a model system
Cambridge Univ. Press, Cambridge, etc. Developmental and Cell Biology Series vol. 2. XIV, 160 pp., 34 figs., 3 tabs., combined taxonomic and subject indexes. £ 8.00

Contents: 1. Cytodifferentiation in perspective; 2. Historical survey of xylem differentiation studies; 3. Hormones in primary xylem differentiation; 4. Role of the cell cycle; 5. Regulation of secondary xylem differentiation; 6. Ultrastructural studies of differentiating xylem elements; 7. Nutritional factors; 8. Environmental influences; 9. Chemical inhibitors and cytodifferentiation; 10. Epilogue

This monograph by a distinguished authority examines the differentiation of one particular cell type from as many angles as possible, with the emphasis on the cell biology of the process. The treatment is critical but not exhaustive; most of the attention goes to internal control mechanisms as against environmental factors, which are probably not critical variables. Because the author places his subject in the broad perspective of developmental biology as a unified science, the book will be read with interest by zoologists.

The table of contents speaks for itself. The bibliography numbers over 600 titles and goes into early 1974. The Epilogue is concluded by a 5-page section highlighting some recent developments, complete with references going into 1975.

The book is well produced and illustrated mainly with very good photographs from many different primary sources.

19.
H. SMITH. 1975. PHYTOCHROME AND PHOTOMORPHOGENESIS, an introduction to the photocontrol of plant development
McGraw-Hill, London. XVI, 235 pp., 107 figs., 23 tabs. £ 7.95, $ 22.00, DM 45.20

Although this book was published more than two years ago we briefly mention it for the benefit of our readers. The book has been well received in the scientific press. The term photomorphogenesis is taken in a narrow sense, excluding phototropism and photoperiodism. The former subject is nevertheless treated in some detail; the latter is not covered, and the reader is referred to a companion volume by Vince-Price (1975), which was reviewed in Gen. Embryol. Inform. Serv. *16*, 2, 1976.

20.
J. H. M. THORNLEY. 1976. MATHEMATICAL MODELS IN PLANT PHYSIOLOGY, a quantitative approach to problems in plant and crop physiology
Academic Press, London, etc. XIV, 318 pp., 81 figs., 11 tabs., subject index. £ 9.80, $ 24.25

This book is concerned largely with quantitative approaches to plant growth and development, a fact which is not clearly brought out in the title. The author has himself contributed greatly to this area, as is apparent from the bibliographies.

The author presents his "modelling philosophy" in the introductory chapter. Chapters 10-13, together occupying about a quarter of the book, are of most interest to our readers. They are entitled Development and senescence, a new growth equation; Unrestricted vegetative plant growth, with senescence and transport; A biochemical switch, development, and flower initiation; and Primordial initiation and phyllotaxis. The model developed in the latter chapter uses polar coordinates and a morphogen and is related to Turing's early approach. Ch. 14 deals largely with the external form of plants and deliberately ignores temporal growth patterns as being at present too difficult.

The book has a very useful glossary.

Dissertations

21.
D. H. M. FRIJTERS. 1976. CONTROL MECHANISMS AND COMPUTER DESCRIPTIONS OF INFLORESCENCE DEVELOPMENT
Ph. D. thesis, Utrecht. 95 pp., 57 figs.

Based on three published papers (1974-'76); introduction, theoretical model and appendices added; models for vegetative and reproductive branching patterns in two Composite species, based predominantly on interactionless L-systems; integration mechanisms; paracladial relationships; many branching diagrams.

22.
R. LETOUZÉ. 1976. QUELQUES MANIFESTATIONS MORPHOGÉNÉTIQUES ET BIOCHIMIQUES DE L'ACTION DES LUMIÈRES MONOCHROMATIQUES SUR LE DÉVELOPPEMENT DU BOURGEON AXILLAIRE D'UNE BOUTURE DE SAULE. (SALIX BABYLONICA L.) EN CULTURE IN-VITRO
Ph. D. thesis, Angers. 154 pp., 24 figs., 4 tabs. (mimeographed)

Willow shoots produced by meristem culture and clonal propagation; growth of axillary buds after decapitation in monochromatic light of different wave lengths; interference with apical dominance; phytochrome-type mechanism; phenylalanine ammonialyase as a biochemical marker.

INVERTEBRATE DEVELOPMENT (general) (see also 98, 104, 105, 106)

Monographs

23.
O. M. IVANOVA-KAZAS. 1977. COMPARATIVE EMBRYOLOGY OF THE INVERTEBRATES; animals with trochophore larvae, Tentaculata, Chaetognatha, Pogonophora (in Russian)
Izdat. Nauka, Moscow. 312 pp., 181 figs., index of terms; taxonomic index. 2R 89K (paper)

Treatment according to eight different phyla, the first four being trochophorate; numerous good line drawings from various sources; extensive bibliographies.

Dissertations

24.
J. P. NENON. 1977. ÉCOLOGIE ET BIOLOGIE DU DÉVÉLOPPEMENT D'UN ENTOMOPHAGE POLYEMBRYONNAIRE; Ageniaspis fuscicollis Thomson 1875 (Hyménoptère, Chalcidien, Encyrtidé)
Ph. D. thesis, Reims. 323 pp., 68 figs., 29 tabs. (mimeographed)

Thorough, mainly descriptive study on the life cycle of a polyembryonic Hymenopteran living as a parasite on several harmful Lepidopterans; short chapter on polyembryony in plants and animals; some 150 pp. on reproduction, cleavage, fragmentation of embryos, influence of temperature and host, growth of parasitoids, influence of hormones *in vitro*, postembryonic development; some good photographs and line drawings; long bibliography.

25.
P. CAPPUCCINELLI and J. M. ASHWORTH, eds. 1977. DEVELOPMENT AND DIFFERENTIATION IN THE CELLULAR SLIME MOULDS
Elsevier-North Holland, Amsterdam, etc. Developments in Cell Biology, Vol.1. XX, 317 pp., 145 figs., 12 pls., 35 tabs., subject index.

This symposium volume is a must for all those working on or interested in cellular slime moulds. The meeting was held in Sardinia in April 1977 and publication was thus extremely rapid. There were 70 participants from all over the globe, including many of the younger members of the "slime mould community".

The 24 research reports and reviews of recent work range in length from about five to about 20 pages. Between them they cover almost all conceivable aspects of the development of these fascinating organisms, including membrane physiology, biochemistry, molecular biology and genetics. No discussions are recorded. The Editors' Preface contains a brief account of the basic biology of these organisms. Although there is not much unity in the book, it is extremely useful as a "cross section" of most of the work that is going on right now.

The papers are reproduced from typescripts. They are well illustrated.

26.
J. R. COLLIER, F. J. LONGO, R. L. MILLER and J. B. MORRILL, organizers. 1976. SPIRALIAN DEVELOPMENT
Amer. Soc. of Zoologists, Thousand Oaks, Calif. American Zoologist vol. 16, 3. 352 pp., 308 figs., 24 tabs.

This symposium was held in December 1974 and consequently part of the material may now be outdated. Nevertheless, it is very helpful to have much work prior to 1974 together in the form of a series of well-written and well-illustrated reviews. All contributors but one were from North America, but one contribution is a joint American-Dutch paper.

The material discussed pertains to a large number of different spiralian forms. The discussions range from the morphological to the molecular-biological level. After a review of basic types of spiral cleavage the remaining papers are arranged in five sections as follows: Gametogenesis and fertilization (5 papers); Experimental cytoembryology (6); Biochemistry of development (5); Larval development and metamorphosis (2); Regeneration and adult growth (2).

The volume is profusely illustrated, predominantly with light and electron micrographs.

27.
P. A. LAWRENCE, ed. 1976. INSECT DEVELOPMENT
Blackwell, Oxford, etc. Symposia Royal Entomol. Soc. London vol. 8. X, 230 pp., 114 figs., 8 tabs., combined subject and taxonomic index. £ 10.50

Contributors: Ashburner, Bohn, Gehring, Illmensee, Kalthoff, Lawrence, Morata, Nöthiger, Richards, Sander, Schneiderman, Shelton, Whittle, Wigglesworth

This symposium was held in London in September 1975. That it was a didactic symposium is evident from the fact that all contributors have tried to write non-technically and have provided essential background material. The result is a collection of very readable reviews which clearly reflect the excitement engendered by the rapid flow of new data in this field. There is considerable overlap among some contributions but there are adequate cross-references.

The first essay (by Schneiderman) is the longest and spans the entire field. Of the other contributions three deal with eggs and embryos, four with imaginal discs, and four with

pattern in later development (eye development, leg regeneration, the role of JH in pattern formation, and chromosome puffing and ecdysone). All papers are followed by brief discussions which are often illuminating. Most reference lists go well into 1976.

The book is very well produced and well illustrated with line drawings and photographs.

28.
H. M. McCAMMON and W. A. REYNOLDS, organizers. 1977. BIOLOGY OF LOPHOPHORATES
Amer. Soc. of Zoologists, Thousand Oaks, Calif. American Zoologist vol. 17, 1. 150 pp., 139 figs., 11 tabs.

This symposium was held in August 1975. The Lophophorates are a loose group including the Bryozoa, Brachiopoda and Phoronida. Of the 13 papers in this volume six deal in one way or another with descriptive aspects of the development of these organisms: embryonic, larval and postlarval development, colony development, and growth and differentiation of adventitious structures. All of these papers report on original research against a varying background of review material of a morphological or evolutionary nature. They are written by specialists from five countries and are very well illustrated with line drawings, photographs and micrographs.

VERTEBRATE DEVELOPMENT (general)

Treatises

29.
B. LOFTS, ed. 1976. PHYSIOLOGY OF THE AMPHIBIA. vol. 3
Academic Press, New York, etc. XIV, 644 pp., 224 figs., 26 tabs., author, species and subject indexes. $ 58.50, £ 41.55

Contents: 1. Color change (Bagnara); 2. Physiology of molting (Larsen); 3. Ground substance: an anuran defense against desiccation (Elkan); 4. The physiology of Amphibian cells in culture (Rafferty); 5. Immunity mechanisms (Cooper); 6. Pathology in the amphibia (Elkan); 7. The nervous system (Oksche and Ueck); 8. The visual system (Ingle); 9. The auditory system (Capranica); 10. The biology of metamorphosis (Dodd and Dodd)

It is particularly the last chapter of this volume that is of special interest to developmental biologists. It is a well-organised and authoritative review, which moreover presents a new theory of thyroxine action in metamorphosis. Several other chapters (notably chs. 4, 5, 6 and 7) contain information of developmental relevance.

Most of the chapter bibliographies are up to date until 1974. The book is well produced and illustrated.

30.
F. S. RUSSELL. 1976. THE EGGS AND PLANKTONIC STAGES OF BRITISH MARINE FISHES
Academic Press, London, etc. XVI, 524 pp., 137 figs., 7 tabs., systematic and subject indexes. $ 19.50

Although this book by a great authority is largely a guide for the identification of early fish stages in ecological studies, it could be useful to fish embryologists as a reference work and for its additional information. It is a definitive work.

After a series of brief chapters dealing in a general way with such matters as the egg and its development, the larva, the postlarva, and feeding habits, 40 families are taken up

in succession. Each of these chapters has a general introduction and then proceeds to characterise one or more, sometimes many species. Apart from the illustrations, documented information is provided for each species on some or all of the following topics: egg, larva, postlarva, food and feeding, rearing, growth rate, behaviour, and distribution. Strictly oceanic species and descriptions of young and fry are excluded.

The book has a host of careful line drawings and a bibliography of close to 600 titles.

Textbooks

31.
P. CHIBON. 1977. EMBRYOLOGIE CAUSALE DES VERTÉBRÉS
Presses Univ. de France. Série Le Biologiste. 224 pp., 54 figs., subject index

This little book was probably written for advanced undergraduate students. It presents a highly selective outline of classical vertebrate experimental embryology, with rather much emphasis on the work of French embryologists. This is supplemented by chapters on the analysis of cell proliferation (the author's own speciality) and on cell death in morphogenesis.

The book is well organised and clearly written. There are some odd omissions, however, such as mesoderm induction prior to gastrulation and the role of the apical ectodermal ridge in limb development. The definition of"morphogenetic field" is rather narrow, while other basic concepts such as epigenesis and morphogenesis are not defined at all.

The line drawings and diagrams are helpful, but the few photographic illustrations are not very well reproduced. The bibliography is restricted to some 20 titles. The index is grossly inadequate.

32.
L. HAMILTON. 1976. FROM EGG TO ADOLESCENT, Xenopus - a model for development
English Univ. Press, London. XII, 78 pp., 34 figs., subject index. £ 3.45

It is difficult to form a judgement of this book because one would have to see it through the eyes of those for whom it is intended: English sixth formers and beginning students. It will certainly convey to them something of the excitement of scientific discovery; on the other hand it is perhaps too unbalanced and at the same time sometimes too difficult in its treatment to convey a really integrated mental picture. Embryology is a difficult subject, and it depends so much on correct (particularly spatial) mental images that the book may fall short particularly due to its pictorial limitations.

Apart from this, the style is not always clear and there are some odd inaccuracies. I suspect many embryologists would agree that *Xenopus* is probably not unique among anurans in having internal prospective mesoderm. Some subjects get an inordinate share of attention (for instance cleavage), while others are not treated in sufficient depth to give proper understanding. Many more difficult words could have been explained in the glossary.

The 40-odd literature references are well selected and the appendix describing some simple operations is very good. The line drawings are good and the electron micrographs are well reproduced.

33.
W. W. MATHEWS. 1976. ATLAS OF DESCRIPTIVE EMBRYOLOGY. 2nd edit.
Macmillan, New York; Collier Macmillan, London. X, 195 pp., 180 figs. £ 6.00 (paper)

The first edition of this atlas was reviewed in Gen. Embryol. Inform. Serv. *15*, 1, 1973. No major changes have been made but 16 drawings and 27 excellent photomicrographs have been added. Gametogenesis has been extended to non-mammalian forms.

34.
R. RUGH. 1977. A GUIDE TO VERTEBRATE DEVELOPMENT, 7th edit.
Burgess, Minneapolis, XVIII, 390 pp., numerous figs. $ 9.95 (spiral bound)

This new edition of a well-known students' guide has been somewhat extended. A brief chapter on human development has been added, as well as a 17-page chapter entitled Experimental embryology. This is entirely methodological in character; it suggests no specific experiments and does not discuss the results of such experiments.

Dissertations

35.
G. HENTSCHEL. 1974. ISOLATIONS- UND KOMBINATIONSEXPERIMENTE ZUR ANALYSE DER DIFFERENZIERUNGSLEISTUNGEN FRÜHEMBRYONALER ENTWICKLUNGSSTADIEN VON AMBYSTOMA MEXICANUM
Ph. D. thesis, Köln. 100 pp., 16 figs., 19 tabs.

Explants from the animal portion of axolotl embryos (8-cell stage till late gastrula) treated with LiCl; quantitative determination of amount of Li inside living cells; correlation with differentiation; combinations of treated with untreated explants.

36.
U. LANDSTRÖM. 1977. ON THE DETERMINATION OF EARLY CELL DIFFERENTIATION IN AMPHIBIAN EMBRYOS Ph. D. thesis, Umeå. 117 pp., 48 figs., 18 tabs.

Collection of 7 published papers and preprints (1974-'77) preceded by a 17-page introduction and summary; two main themes: (a) dorso-ventral polarity and metabolism in the blastula, (b) interactions between animal and vegetative cells in the blastula and their possible chemical basis.

DEVELOPMENT OF MAMMALS AND MAN (general) (see also 48, 61, 97, 101, 102)

Treatises

37.
M. H. JOHNSON, ed. 1977. DEVELOPMENT IN MAMMALS. Vols. 1 and 2
North-Holland, Amsterdam, etc.
Vol.1: VIII, 390 pp., 118 figs., 36 tabs, subject index. $ 34.50, Dfl. 84.00
Vol. 2: VIII, 241 pp., 54 figs., 13 tabs., subject index. $ 29.50, Dfl. 72.00

Contributors to vol. 1: Aitken, Beato, Bell, Borland, Ducibella, Johnson, Kaufman, O'Grady, Schultz, Surani, Tucker, Warner
Contributors to vol. 2: Atienza, Beato, Braude, Bullock, Canipari, Handyside, Izquierdo, Jenkinson, Johnson, Katz, Mangia, Overstreet, Rossant, Salomon, Sherman, Wudl

This new serial publication will certainly be of great value to mammalian embryologists. If the promise of the first two volumes is fulfilled it will develop into a real forum for the exchange of facts and ideas. Moreover, publication is extremely rapid as books go. Contributions will be both by invitation and submission, and no rigid format is prescribed. This is exactly the sort of thing that a rapidly developing area of science needs. For vol.3 the editor particularly seeks contributions on sex determination and differentiation.

The 17 reviews in the first two volumes, with an average length of 35 pages, concentrate on peri-implantation stages and blastocyst-uterine relationships. Some are more like essays, and many contain interesting new ideas, to which readers are requested to react in subsequent volumes. Many contributions are by younger scientists. The majority of the authors

are from North America and the United Kingdom but there are contributions from Western Europe and South America as well.

The books are produced in small but readable typescript-offset. The photographic illustrations are well reproduced.

Textbooks

38.
E. BLECHSCHMIDT. 1976. WIE BEGINNT DAS MENSCHLICHE LEBEN
Christiana-Verlag, Stein am Rhein. 168 pp., 63 figs.

This is an entirely rewritten version of the author's earlier book *Vom Ei zum Embryo* (1968). It is based on unorthodox ideas which are by now well known, particularly in the German-speaking world: kinetic anatomy, developmental dynamics, formative movements *(Gestaltungsbewegungen)*, and "metabolic fields" *(Stoffwechselfelder)*. The latter two concepts are derived from a painstaking morphological analysis of human development, the results of which have already been laid down in a number of more extensive works for the specialist. The present book is an outline that is apparently meant primarily for the general reader.

The book is illustrated with excellent line drawings and photographs, for the most part taken from the author's earlier works. It is concluded by tabular surveys of human development and a glossary.

39.
G. MICHEL. 1977. KOMPENDIUM DER EMBRYOLOGIE DER HAUSTIERE. 2nd edit.
Fischer, Jena. 398 pp., 232 figs., 15 tabs., subject index. M 28.00

The first edition of this book (1972) was reviewed in Gen. Embryol. Inform. Serv. *15*, 1 (1973). The book is essentially unchanged. The text is some 25 pages longer, three of which are taken up by a new chapter on teratology. A few new illustrations were added and the list of additional reading was somewhat extended.

40.
G. H. SPERBER. 1976. CRANIOFACIAL EMBRYOLOGY. 2nd edit.
Wright, Bristol. Dental Practioner Handbook No.15. XIV, 163 pp., 106 figs., subject index. £ 5.00 (paper)

The first edition of this book appeared in 1973 and was reviewed in Gen. Embryol. Inf. Serv. *15*, 2, 1974. The book has remained essentially the same but expansion in several places has led to an increase in length of 30 pages. A short chapter on the development of the sense organs of the head was added. Several new figures were inserted and several others replaced. The chapter bibliographies were extended.

Monographs

41.
R. W. BEARD and P. W. NATHANIELSZ, eds. 1976. FETAL PHYSIOLOGY AND MEDICINE: the basis of perinatology
Saunders, London, etc. XII, 542 pp., 123 figs., 62 tabs., subject index. £ 15.00, $ 28.50

This book deals almost entirely with the fetus and is therefore predominantly of interest to members of the medical profession. However, it can be of value as a work of reference to mammalian and human embryologists. Of the 37 contributors 29 are British or Commonwealth. The 26 chapters are compendious reviews with long reference lists and together provide almost complete coverage of our knowledge of human and mammalian

fetal life as the product of physiological and clinical research. Most of them are up to date until 1974 or '75.

The book is well produced. It is illustrated almost entirely with graphs and diagrams. The large majority of the literature cited is in English.

42.

I. R. PHILLIPS. 1976. THE EMBRYOLOGY OF THE COMMON MARMOSET (Callithrix jacchus)

Springer, Berlin, etc. Advan. Anat. Embryol. Cell Biol. Vol. 52, 5. 47 pp., 22 figs., 14 tabs., subject index. DM 26.00 (paper), $ 10.70

Brief description of a somewhat incomplete series of Streeter stages beginning with VII and ending with XXI; discussion of timing of morphogenesis in comparison with other primates; good drawings and micrographs.

Symposium reports

43.

F. T. PERKINS and P. N. O'DONOGHUE, eds. 1975. BREEDING SIMIANS FOR DEVELOPMENTAL BIOLOGY

Laboratory Animals Ltd, London. Laboratory Animal Handbooks, vol. 6. II, 353 pp., 93 figs., 57 tabs., combined subject and taxonomic index. £ 12.00, $ 30.00

This symposium was held in London in June 1974 and was attended by more than 100 specialists from many different countries. The significance of the published proceedings will be obvious to all those working or planning to work with primates. There are 30-odd papers interspersed with discussions.

Rather than enumerating all the contributions we want to single out some topics that are of specific importance to embryologists working with primate material: comparison of embryonic and foetal development of man and rhesus monkey (29 pp. including discussion); chronology of development of embryo and placenta in *Tupaia* (3 pp.); determination of early pregnancy and stage of foetal development in *Macaca* (16 pp.); macaque and marmoset as animal models for birth defects (11 pp.); comparison of developmental stages in primates (12 pp.); and possibilities of using *Macaca arctoides* in teratology (8 pp.). Most of the remaining contributions deal with the husbandry, breeding, reproduction and diseases of monkeys.

The book is well produced and illustrated.

44.

D. F. ROBERTS and A. M. THOMSON, eds. 1976. THE BIOLOGY OF HUMAN FETAL GROWTH

Taylor & Francis, London. Symposia Soc. for the Study of Human Biology, vol. 15. X, 309 pp., 70 figs., 47 tabs., author and subject indexes. £ 6.50

This symposium was held in England in November 1974 and all contributors but one are English. The book is clearly of most immediate importance to obstetricians but some contributions may be of interest to mammalian embryologists. Most papers are reviews of greatly varying length; two are research reports.

The 15 contributions are grouped as follows (we briefly indicate the subjects of more general importance in parentheses); Techniques (2 papers); Growth in size and its postnatal implications (6, of which one on metrical growth and skeletal development and one on vulnerable periods in brain and somatic growth); Growth in function (4, among which endocrine function, biochemical development, immune competence); Factors affecting growth (3, of which one on non-specific esterases).

The book is well produced and adequately illustrated.

Textbooks

45.
C. R. AUSTIN and R. V. SHORT, eds. 1976. FORTPFLANZUNGSBIOLOGIE DER SÄUGETIERE. Band 1 Keimzellen und Befruchtung, aus dem Englischen übersetzt von G. Obe, U. Hollihn und B. Beek
Parey, Berlin, etc. Pareys Studientexte No. 6. 116 pp., 50 figs., 3 tabs., subject index. DM 25.00 (paper)

This is the translation of the first of an excellent series of five short texts first published in 1972. The reader is referred to our earlier reviews in Gen. Embryol. Inf. Serv. *15*, 1 (1973).

The translation is competent and conscientious. The original beautiful illustrations are somewhat too darkly reproduced, thus occasionally losing some of their information content. One illustration has been replaced. The index has been greatly extended.

46.
J. COHEN. 1977. REPRODUCTION
Butterworths, London, etc. XX, 356 pp., 86 figs., 17 pls., 11 tabs., combined subject and taxonomic index.

In so far as developmental biology deals with phenomena occurring during the life cycle, it is natural to place it in the broad context of reproduction. In this book the author, who is both an embryologist and a reproductive biologist, does this on the whole in an admirable manner. The book paints a very wide panorama indeed, and would be very suitable to make students of development aware of the place of their science in the whole of biology (in the non-reductionist sense).

That the book arose out of lectures is apparent from its easy style. It is full of unorthodox ideas, often amusing, and occasionally provocative (especially in the sections dealing with social and cultural patterns.) The amount of embryology in the modern sense is naturally restricted and the chapters in question are slightly marred by some mistakes and inaccuracies. Particularly useful and informative are the chapters on larval forms, viviparity, life cycles and evolution.

The illustrations, both line drawings and photographs, are all original and on the whole very good. There is a good glossary. The 15-page reference list serves as an author index. The index is extensive (but does not include "induction").

Monographs

47.
A. E. BEER and R. E. BILLINGHAM. 1976. THE IMMUNOBIOLOGY OF MAMMALIAN REPRODUCTION
Prentice-Hall, Englewood Cliffs. XVI, 240 pp., 31 figs., 3 tabs., subject index, $ 24.10, £ 15.15

Although this book is obviously of primary importance to medical students and members of the medical profession, it could be very useful to mammalian embryologists. It is a concise synthesis of the basic observations and principles in this field and is well suited for rapid orientation. Due to the limited documentation it is not suitable as a reference work.

The book is easy to read and the treatment is critical, as we may expect from such eminent authorities. In a series of 15 chapters of convenient length virtually all aspects pass in review. Eight chapters deal in one way or another with the period of gestation,

and one (briefly) with the ontogeny of immune responses. Each chapter has a selective reference list of one to a few dozen titles.

The book is adequately produced. All illustrations are original and serve their purpose well.

48.

R. B. L. GWATKIN. 1977. FERTILIZATION MECHANISMS IN MAN AND MAMMALS
Plenum, New York, etc. X, 161 pp., 34 figs., 6 tabs., subject index. $ 21.80, £ 11.03

Knowledge of mammalian fertilisation has greatly increased in the last five years. In this book the eminently qualified author reviews the new knowledge in a concise but well-documented form, paying attention to morphological, physiological and molecular aspects. Recent data on amphibian and invertebrate (mainly sea urchin) gametes have been included wherever appropriate.

The book consists of 15 brief chapters. Fertilisation is defined broadly: there are chapters on the egg and the sperm, on gamete transport, on sperm capacitation, and on parthenogenesis. Other subjects are the prevention of polyspermy and pronucleus formation. An epilogue lists some two dozen questions which should be attacked in the near future.

The book is well produced and illustrated with good line drawings, photographs and electron micrographs. The 34-page bibliography is up to date until well into 1976.

49.

E. C. ROOSEN-RUNGE. 1977. THE PROCESS OF SPERMATOGENESIS IN ANIMALS
Cambridge Univ. Press, Cambridge, etc. Developmental and Cell Biology Series, vol. 5. VIII, 214 pp., 38 figs., 14 pls., 12 tabs., author, taxonomic and subject indexes. £ 15.50

This scholarly monograph is comparative in character and emphasises spermatogenesis as the development of a peculiar population of cells set apart in the metazoan body, an organismic process in some ways similar to early embryogenesis. It follows that much attention is devoted to the relationships between germ cells and somatic cells. Differentiation and endocrine and genetic control are treated as supplementary subjects. Much older work that is in need of re-investigation is cited.

After an interesting historical survey the treatment is at first strictly systematic, starting with the *Porifera* and ending with the vertebrates (with comparatively little space devoted to mammals). Next there are brief chapters dealing in a general manner with the kinetics of spermatogenesis; degeneration, polymorphism and genetic control; and compartments and auxiliary cells. Much useful information is presented in tabular form.

The book has a glossary that is meant as a contribution to the conscious use of terms. The bibliography covers 31 pages of small print. In the text there are numerous good line drawings reproduced from various (often older) sources. These are supplemented by 14 plates of good quality, several of which are again beautiful old drawings.

50.

J. S. SCOTT and W. R. JONES, eds. 1976. IMMUNOLOGY OF HUMAN REPRODUCTION
Academic Press, London; Grune & Stratton, New York. XXII, 476 pp., 58 figs., 26 tabs., subject index. £ 15.00, $ 32.75

This book was written primarily as a quide for clinicians to an expanding field of knowledge. It contains 14 well-organised reviews written by experts in the field. They are not exhaustive but are meant as surveys of current knowledge.

The chapters of most immediate interest to mammalian embryologists are those by Johnson (Fertilisation and implantation, 28 pp.), Mendenhall (The immunology of the fetal-maternal relationship, 20 pp.), Billington (The immunology of trophoblast, 22 pp.), Jones (Fetal and neonatal immunology, 42 pp.), and Scott (Immunological aspects of trophoblastic neoplasia, 20 pp.). Several other chapters may be of interest to teratologists.

The volume is well produced and adequately illustrated.

51.
M. EDIDIN and M. H. JOHNSON, eds. 1977. IMMUNOBIOLOGY OF GAMETES
Cambridge Univ. Press, Cambridge, etc. Clinical and Experimental Immunoreproduction vol. 4. X, 310 pp., 91 figs., 40 tabs., subject index. £ 14.50

This meeting of 26 specialists was held in Boston in May 1976. Of the 11 papers presented 10 were by American authors. Most of the contributions are concentrated reviews of recent research and all are followed by extensive and interesting group discussions, complete with references.

The first seven papers all deal in one way or another with the membranes, surface antigens and enzymes of mammalian spermatozoa. The last four are of wider interest to embryologists. Two of these are somewhat outside the scope of the volume (one by Van Blerkom on electrophoresis of rabbit oocyte and embryonic proteins, and one by Epel on fertilisation in sea urchins). The other two are by Solter (organisation and antigenic properties of mammalian egg membrane) and by Yanagimachi (sperm-egg interaction in mammals).

The volume is very well produced and illustrated.

IMPLANTATION, PLACENTA, FETAL MEMBRANES AND FLUIDS (see also 3,37, 47, 50,86,101)

Dissertations

52.
R. BAUR. 1977. MORPHOMETRY OF THE PLACENTAL EXCHANGE AREA
Springer, Berlin, etc. Advan. Anat. Embryol. Cell Biol. Vol. 53, 1. 65 pp., 37 figs., 9 tabs., subject index. DM 32.00, $ 14.10 (paper)

Thorough study based on macroscopic and light-microscopic measurements of volume, chorionic surface area, and villous surface area; developmental data for six species with different types of placenta, starting at ca. 2 wks for the smaller and 5-15 wks for the larger species; full-term placentas of 30 species with compact or diffuse placental types; extensive mathematical analysis; much German literature.

Symposium reports

53.
K. YOSHINAGA, R. K. MEYER and R. O. GREEP, eds. 1976. IMPLANTATION OF THE OVUM
Harvard Univ. Press, Cambridge, Mass. XII, 161 pp., 56 figs., 21 tabs., subject index. £ 11.25

Contents: 1. Introduction (Meyer); 2. Ovarian hormone secretion and ovum implantation (Yoshinaga); 3. The use of agents other than natural hormones (Emmens); 4. Methods for studying the blastocyst (Biggers); 5. A morphological approach to the study of ovum implantation in the rat (Tachi, Tachi, and Lindner); 6. Biochemical approach to ovum implantation (Beier); 7. Interspecific egg-host relationships in the rat and mouse (Zeilmaker); 8. Recent research on ovum implantation (June 1972-June 1975) (Yoshinaga)

This symposium was held in Washington, D. C. in June 1972 and the papers for the book were prepared soon after that. The time-lag until publication is bridged by the last paper, which is up to date until the middle of 1975 and has over 180 references.

The table of contents speaks for itself. All papers are authoritative reviews with varying emphasis on the authors' own research. Nearly all are of great interest to mammalian

embryologists. Several contain very useful surveys of relevant data in tabular form.

The book is attractively produced and illustrated mainly with photo- and electron micrographs.

TERATOGENESIS, CONGENITAL MALFORMATIONS (see also 43,73,79,81,82)

Treatises

54.
H. NISHIMURA and N. OKAMOTO, eds. 1976. SEQUENTIAL ATLAS OF HUMAN CONGENITAL MALFORMATIONS, observations of embryos, fetuses and newborns Igaku Shoin, Tokyo. VIII, 334 pp., 531 figs., subject index. $ 65.00, Y 16,000, Dfl. 160.00

This book, written by four Japanese authors, is mainly meant for clinicians as a guide to the supporting embryological evidence for congenital malformations. Some of the material, as well as the bibliography, may be of use to human embryologists. The book is based mainly on an autopsy population of some 6000 embryos (induced abortions) collected in Kyoto and some 6000 fetuses (mainly induced and spontaneous abortions) collected in Hiroshima.

The bulk of the book consists of some 785 photographs and photomicrographs of mostly good quality, provided with descriptive captions. Most of these are of full-term fetuses or neonates, but there are a fair number of earlier stages among them. They are supplemented by brief texts considering, among other things, the pathogenesis and etiology (if known) of the malformations. The texts often have explanatory line drawings. In some of these the lettering, pointers and captions are somewhat inadequate. The malformations are arranged mainly according to organ systems.

The bibliography covers 29 pages of small print and consists of literature cited in the text plus selected titles form the world literature. There are five pages of selected literature on normal human development, arranged by organ system. The book is well produced on glossy paper.

Monographs

55.
C. L. BERRY, ed. 1976. HUMAN MALFORMATIONS
British Council Med. Dept., London. British Med. Bull. vol. 32, 1. 98 pp., 11 figs., 2 pls., 29 tabs. £ 3.50

Although this issue is obviously meant primarily for members of the medical profession, part of it would be useful collateral reading for those entering the field of teratogenesis. It contains 15 brief reviews, with fairly long to long reference lists, on variety of subjects. About half of these could be of interest to those working in experimental teratology outside the clinic.

We specifically mention the papers by Berry and Barlow on reproductive toxicity testing, by Beck on model systems in teratology, by Poswillo on mechanisms and pathogenesis of malformation, and by Wolpert on mechanisms of limb development and malformation.

56.
N. CHRISTENSEN. 1976. OCULAR MALFORMATIONS INDUCED BY RADIATION OF THE MOUSE EMBRYO, a histopathological study with a particular view to stage specificity FADL, Copenhagen; M. D. thesis, Copenhagen. Acta Pathol. et Microbiol. Scand. Sect. A, suppl. 254. 170 pp., 25 figs., 36 tabs.

Systematic study of gross and microscopic eye malformations after irradiation with mainly 222 R on gestation days 7 through 14; limited dose-response study; data on resorption and embryonic growth retardation; spontaneous eye malformations; good photomicrographs.

57.
L. DENCKER. 1976. TISSUE LOCALIZATION OF SOME TERATOGENS AT EARLY AND LATE GESTATION RELATED TO FETAL EFFECTS
D. V. M. thesis, Uppsala. Acta Pharmacol. et Toxicol., vol. 39, suppl. 1. 131 pp., 41 figs., 10 tabs.

Distribution and localisation of teratogens in pregnant rodents, studied by whole-body autoradiography in sections of whole uteri; teratogens used: heavy metals, trypan blue, 2,4,5-T, salicylic acid; stages from presomite till term; quantitation by impulse counting in some cases; many autoradiographs with corresponding light micrographs.

58.
E. B. van JULSINGHA. 1976. TWO NEW PROCEDURES FOR USE IN TERATOLOGY STUDIES DESIGNED TO EVALUATE THE SAFETY OF AGENTS
Ph. D. thesis, Utrecht. 311 pp., numerous figs. and tabs. (mimeographed)

I. New procedure for processing results of teratological studies by computer (with flow diagrams); II. Procedure to predict embryo-lethality in rabbits caused by some types of steroids, by determining serum transaminase activities; photographic atlas of freehand sections of head of 29-day rabbit foetus.

Symposium reports

59.
J. D. EBERT and M. MAROIS, eds. 1976. TESTS OF TERATOGENICITY IN VITRO
North-Holland, Amsterdam, etc. 497 pp., 225 figs., 7 pls., 30 tabs. $ 61.25, Dfl. 150.00

This international conference was held in Woods Hole, Mass. in April 1975 in honour of Prof. Etienne Wolff and was sponsored by the Institut de la Vie. The title is a little misleading: only about a third of the 27 papers have a direct bearing on the area indicated by the title, and some even seem entirely out of place. On the other hand, many authors make an effort to point out the possible teratogenic implications of their findings on basic aspects of normal development as studied in vertebrate cells, tissues and organs *in vitro*. A great variety of such systems pass in review, usually by established authorities from many countries. Many contributions are extremely interesting but there is little unity in the volume as a whole.

The contributions vary greatly in length and format. Most are brief to medium-length reviews of recent work, often unpublished at the time of writing. There has been minimal editing and the conference discussions are not recorded.

The book is well produced and profusely illustrated; the numerous photographic illustrations are well reproduced. The book has no indexes.

60.
L. WEINSTEIN, ed. 1976. TERATOLOGY AND CONGENITAL MALFORMATIONS, a comprehensive guide to the literature, 3 vols.
Plenum, New York, etc. vol. 1 Bibliograpny: 464 pp.; vol. 2 KWIC Index part one: 570 pp.; vol. 3 KWIC Index part two and author index: 538 pp. $ 234.80 the set

This most useful set of volumes is best characterised by reprinting the entire second paragraph from the Preface:

> The material of this book ranges from experimental to clinical, with the emphasis on the former. A majority of the references concern malformations, especially those induced by chemicals, drugs, pesticides, diseases, stress, environment, etc, Techniques and methods for the study of teratogenesis is another well-represented category. Each reference in this group has had the words "test method" added to the title to assist in locating such papers in the KWIC index. Also included are those aspects of embryology, reproduction, and genetics that lead to a better understanding of the development of the malformations. In recent years, references to mutagenicity and screening tests for carcinogenicity have been added. An effort has been made to include books, book reviews, symposia, conference proceedings, and abstracts from meetings.

The work is a compilation of all references contained in a current awareness bulletin produced by Lederle Laboratories since 1963, plus the references from several retrospective searches going back to around 1950. The total number of references listed is more than 13,000, the last 2,000 of which date from 1974. The listings are in the form of a Bibliography (vol.1) and a computer-produced Key Word In Context index (vols. 2 and 3) referring back to the Bibliography. The KWIC index is based on the titles plus appropriate keywords supplementing them. Titles in 24 languages other than English have been translated into English. The author index at the end of vol. 3 of course also refers back to the Bibliography.

The volumes are sturdily bound. It is to be hoped that the volumes will be updated from time to time.

DEVELOPMENTAL PATHOLOGY, CANCER (see also 67,89,93,101)

Monographs

61.
A. GROPP and K. BENIRSCHKE, eds. 1976. DEVELOPMENTAL BIOLOGY AND PATHOLOGY
Springer, Berlin, etc. Current Topics in Pathology, vol. 62. IX, 216 pp., 86 figs., 18 tabs., subject index. DM 96.00, $ 39.40

The preparation of this volume was prompted by the desire to meet some urgent fundamental needs of developmental pathology. Indeed, some rather recent avenues are explored in it, and it ought to be of great interest not only to pathologists but to all mammalian embryologists. Most of the 19 contributors are established authorities in the field; all but two are from Western Europe. The 12 contributions are well-organised reviews ranging in length from half a dozen to two dozen pages. (Not all of them are equally up to date and only one has been updated.)

After a brief introduction by Austin the contributions are arranged in four sections as follows: Oocyte, early embryo and maternal host; morphology and biochemistry (4 papers), Pharmacological and hormonal influences in early embryogenesis (3), Teratology (2), and Cytogenetics (3). We cannot list all individual contributions but want to make an exception for the paper by Denker, in which he reviews the problem of early determination on a comparative basis and concludes that it is too early to decide between the "inside-out" and the cytoplasmic localisation hypotheses, and that both may be true.

The volume is well printed and superbly illustrated.

62.
J. H. COGGIN, Jr. and N. G. ANDERSON, eds. 1976. SYMPOSIUM CANCER AND CHEMISTRY, part of the Fourth Conference on embryonic and fetal antigens in cancer
Williams & Wilkins, Baltimore. Cancer Research, vol 36, 9, pt. 2. 164 pp., 69 charts, 41 figs., 66 tabs. $ 8.00

This symposium was held in Charleston, S. C. in November 1976. It was concerned with the relationships between cancer and normal development, particularly their biochemical and genetic aspects.

The reviews and research reports of most general scope, and therefore of greatest interest to mammalian and other embryologists, are those in the first two sessions (4 papers each): Molecular basis for programming in development, and Embryonic and fetal development. The remaining sessions deal with Relationships between shared tumor and fetal products, Antigenic determinants of colonic cancers, and Tumor antigens and embryonic antigens on neoplasms. The volume is well illustrated.

63.
W. H. FISHMAN and S. SELL, eds. 1976. REGULATION OF GENE EXPRESSION IN DEVELOPMENT AND NEOPLASIA
Amer. Assoc. for Cancer Res., Bethesda. Cancer Research, vol. 36, 11, pt. 2., 131 pp., 106 figs., 25 tabs.

The borderland between cancer and normal development is becoming a more and more important area. The present symposium, held at Santa Ynez, Calif. in July 1976, was devoted to this area. The participants were predominantly American (with two from Paris and two from Japan). Of the 19 contributions four are reviews while two are theoretical in nature.

The papers of most direct interest to our readers are in part one: Model systems for the study of oncodevelopmental gene expression; this is in two sections, one dealing with murine teratocarcinoma (5 papers) and one with neoplastic transformation (6 papers). The so-called oncodevelopmental gene products appear again and again in the discussions. The eight papers in part two deal with Molecular mechanisms of gene regulation. Among them is a new model for the control of transcription during development involving small RNA chains. The issue is profusely illustrated.

REGENERATION, RENEWAL

Textbooks

64.
P. MATTSON. 1976. REGENERATION
Bobbs-Merrill, Indianapolis. XIV, 178 pp., 52 figs., subject index. $ 4.95 (paper)

This little book was written for the educated layman. It is therefore highly selective, avoids some of the more abstruse problems such as modulation/dedifferentiation and pattern formation, and places much emphasis on the possible applications of regeneration results in medicine. Nevertheless, the treatment is scientifically rigorous. The author writes interestingly and avoids jargon.

The book is restricted almost entirely to present-day regeneration research in the U. S. A., apart from a useful chapter on Russian work. Another feature is a special chapter on regeneration in plants.

The book is well illustrated. It has a list of *Scientific American* articles and extensively annotated book titles.

65.
L. V. POLEZHAEV. 1977. REGENERATION (in Russian)
Znanie, Moscow. Novoe v Zhizni, Nauke Tekhnike, Ser. Biol. no. 6. 64 pp., 7 figs. 11k (paper)

Brief survey of regenerative phenomena in animals, probably written for the educated layman; only a few line drawings; non-Russian authors cited in text but bibliography of a dozen Russian titles only.

66.
V. PREDA and O. CRĂCIUN. 1976. THE REGENERATION OF TISSUES AND ORGANS IN VERTEBRATES (in Rumanian)
Acad. Rep. Soc. Romania, Bucuresti. 317 pp., 124 figs.

Very complete factual and theoretical survey of all aspects of organ and tissue regeneration up till about 1970; 7-page French summary, French table of contents; bibiography of 1,450 titles, very rarely beyond 1971; illustrated mainly with photomicrographs; no index.

Symposium reports

67.
A. B. CAIRNIE, P. K. LALA, and D. G. OSMOND, eds. 1976. STEM CELLS OF RENEWING CELL POPULATIONS
Academic Press, New York, etc. XVI, 389 pp., 102 figs., 25 tabs., subject index. $ 18.00, £ 9.90

This symposium was held in Montreal in October 1975. One of its major aims was to bring together investigators from many disciplines to exchange information on stem cells under normal steady state conditions as well as during development, ageing, regeneration and neoplasia. Of the 38 participants, 27 were from North America, 10 from Great Britain, and one from France. Most of the 26 contributions are surveys of recent original work mixed with varying amounts of review material.

The contributions are arranged in six sessions as follows (abridged): Intestine (6 papers), Epidermis (3), Hemopoietic and lymphoid tissue (4+5), Testis (4), and Growth, ageing and neoplasia (4, of which one on teratocarcinoma). Each session is concluded by an informative digest of the discussions held. L. F. Lamerton has provided thoughtful opening and concluding addresses. The volume is dedicated to C. P. Leblond.

The book is produced in good offset print and very well illustrated.

Collections of papers

68.
N. M. GORELIK, ed. 1976. PROLIFERATIVE PROCESSES AND REGENERATION (in Russian)
Publ. House Moscow Univ., Moscow. Transactions of the Moscow Soc. of Naturalists vol. 41. 184 pp., 44 figs., 31 tabs. 2R. 18K

A collection of review and research papers by Russian authors; biography of L. Y. Blacher; some other subjects; present status of the problem of regeneration (Liosner); compensatory growth of salivary glands (Babaeva *et al.*); liver regeneration in guinea pigs (Rjabinina *et al.*) lung regeneration in anuran tadpoles (Romanova *et al.*); fundus regeneration in rat (Timashkevich *et al.*); similarity of budding and regeneration in *Hydra* (Zamaraev); English summaries.

69.
L. V. POLEZHAEV. 1977. REGENERATION BY INDUCTION (in Russian)
Meditsina, Moscow. 184 pp., 82 figs. English summary. 1R 58K (paper)

Summary of experiments by the author and other (mainly Russian) investigators on cranial vault, dental tissue and cardiac muscle in mammals; new data obtained with autoradiography and diffusion chambers; inducing factors and their nature; origin of regeneration cells; light micrographs and some electron micrographs of mostly reasonable quality; 16-page bibliography (11 pp. Russian - much older literature, most recent titles 1975/'76).

ORGANOGENESIS, HISTOGENESIS (incl. tissue and organ culture, histochemistry) (see also 27,59,67,86,88,90,96)

Treatises

70.
G. GOTTLIEB, ed. 1976. NEURAL AND BEHAVIORAL SPECIFICITY
Academic Press, New York, etc. Studies on the Development of Behavior and the Nervous System, vol. 3. XX, 352 pp., 48 figs., 21 tabs., author and subject indexes. $ 28.50

Contributors: Chow, Daniels, Gottlieb, Grobstein, Keating, Lippe, Meyer, Pettigrew, Sperry, Tees

The two previous volumes of this series were reviewed in Gen. Embryol. Inf. Serv. *15*. 2, 1975. The present book is divided into four sections and an epilogue by the editor. Section 1 is entitled Historical and theoretical aspects and has two chapters. In a brief introduction the editor points out that the nativism - empiricism controversy, reformulated as a developmental problem, plays a role in all the chapters of the book.

Section 2, entitled Neurospecificity: Chemoaffinity theory, has chapters by Keating and by Meyer and Sperry, in which the problems of visual neuronal connectivity in lower vertebrates and mammals are reviewed from slightly differing perspectives. This section is of greatest interest to embryologists. Sections 3 and 4 are called Neurospecificity: Experience, and Behavioral specificity and have two chapters each. They deal with visual and auditory perception in developing birds and mammals.

Textbooks

71.
H. E. SCHROEDER. 1976. ORALE STRUKTURBIOLOGIE, Entwicklungsgeschichte, Struktur und Funktion normaler Hart- und Weichgewebe der Mundhöhle
Thieme, Stuttgart. XII, 368 pp., 117 figs., 22 tabs., subject index. DM 24.80 (paper)

This text for dental students is written from a modern point of view, in which development, cell differentiation, cell biology and structure form an integrated whole. It could therefore be of interest to those biologists who are starting work on tooth development and related subjects.

Special features of the book are its numerous excellent line drawings (many with colour) and the chapter bibliographies consisting of carefully selected older and recent references from the world literature.

72.
N. K. WESSELLS. 1977. TISSUE INTERACTIONS AND DEVELOPMENT
Benjamin, Menlo Park, Calif., etc. X, 276 pp., 135 figs., subject index. $ 10.00 (paper)

Although this book was written for undergraduate students it is so full of ideas that it makes delightful reading for any "mature" developmental biologist. Its illustrations, particularly the many scanning electron micrographs, are a joy to behold.

The advantage of a book such as this is that it can delve much more deeply into the subject than is possible in a comprehensive text. If this is moreover done in such an authoritative and thoroughly modern, yet critical and balanced manner, the result is most enjoyable. The treatment is of course selective but the examples are well chosen and the whole text is well integrated. Whether we move at the level of the organ, the tissue, the cell or the cell surface the sense of unity is never lost. The term "tissue interactions" is taken very broadly and encompasses the role of hormones, nerves, extracellular materials and cell coupling.

Other good features are the summary "concepts" (or rather "conclusions") at the end of each chapter and the annotated lists of readings. It is rather odd that no magnifications are provided for the electron micrographs. In fig. 14.5 two pictures are transposed and there are a number of annoying printing errors.

Monographs

73.
T. PEXIEDER. 1975. CELL DEATH IN THE MORPHOGENESIS AND TERATOGENESIS OF THE HEART
Springer, Berlin, etc. Advan. Anat. Embryol. Cell Biol. vol. 51, 3. 100 pp., 52 figs., 9 tabs., subject index

Summary of author's own research (mainly on chick embryos) from 1968 to 1973 against the background of the literature and findings in rat and man; special emphasis on cell death in bulbar cushions; study of role of hemodynamics by aortic clipping and organ culture; teratogenic experiments; 23-page bibliography.

74.
J. A. TUCKER et al. 1976. SURVEY OF THE DEVELOPMENT OF LARYNGEAL EPITHELIUM
Annals Publ. Co., St. Louis. Annals Otol. Rhinol. Laryngol. vol. 85, 5 pt. 2 (suppl. 30). 16 pp., 11 figs., 2 tabs.

Study of laryngeal epithelium in embryos (Carnegie stages 14-23), fetuses (10-36 wks.), neonate and adult; prenatal stages mainly with light microscopy, later stages with transmission and scanning electron microscopy.

75.
M. WINICK. 1976. MALNUTRITION AND BRAIN DEVELOPMENT
Oxford Univ. Press., London, etc. XVI, 169 pp., 61 figs., 6 tabs., subject index. £ 5.00, $ 9.95

Contents: 1. Clinical malnutrition, 2. Normal cellular growth of the brain, 3. Nutrition and cellular growth of the brain, 4. Malnutrition and prenatal growth, 5. Malnutrition and mental development

The table of contents of this monograph speaks for itself. The author has "tried to select the most important animal and human studies, to evaluate them, and to develop an

overall picture of the consequences of early malnutrition . . .[for] brain structure and function".

Because the present reviewer is not an expert, he feels he ought to say that not all competent reviewers have been equally enthusiastic about the book. It is something between an exhaustive review and a basic account, and should perhaps be contrasted with the equally recent but much longer book by Ph. R. Dodge and others on the same subject.

The book is attractively produced and has many clear graphs and diagrams.

76.
D. WÜNSCH. 1975. BEITRAGE ZUR KENNTNIS DES PRIMATEN-CRANIUMS No. 4, zur Kenntnis der Entwicklung des Craniums des Koboldmaki, Tarsius bancanus borneanus, Horsfield, 1821
Zentrum der Morphologie, Dr. Senckenbergisches Anat. Inst., Frankfurt. 117 pp., 44 figs.

Study based on two fetuses (48 and 55 mm. CRL) and two neonates; description of the skulls by region; reconstructions and micrographs; long bibliography.

Dissertations

77.
J. ALBERT. 1976. ANALYSE EXPÉRIMENTALE DES INTERACTIONS ENDO-MÉSODERMIQUES AU COURS DE L'ORGANOGENÈSE DE L'APPAREIL DIGESTIF CHEZ RANA DALMATINA BON. (AMPHIBIEN ANOURE)
Ph. D. thesis, Bordeaux. VI, 189 pp., 178 figs. 3-p. English and German summaries (mimeographed)

Very complete experimental-morphological study on embryos and larvae from middle neurula onwards; many different experimental approaches; determination of intra-endodermal groove formation; axis determination and late regulative properties of the endoderm; action of chordo-mesoderm on endodermal differentiation; line drawings and photographic plates.

78.
J. BHATTACHARJEE. 1976. ENZYME-HISTOCHEMICAL ANALYSIS OF RETINAL DEVELOPMENT IN THE MOUSE
M. D. thesis, Rotterdam. 108 pp., 55 figs., 2 tabs.

Based on four published papers, plus general introduction and discussion; day 10 of gestation to day 26 after birth; four enzymes studied; good histochemical micrographs and diagrams.

79.
X. DOR. 1976. ÉTUDE DES TORSIONS DISTALES DE L'ÉBAUCHE CARDIAQUE, développement normal et malformations expérimentales réalisées chez l'embryon de poulet
Ph. D. thesis, Nantes. 126 pp., 25 figs., 4 tabs (mimeographed)

Normal development of the conus arteriosus and its ridges in the chick embryo (from st. 23 onwards); experiments involving insertion of pieces of shell membrane or local cauterisation; comparative embryology and anatomy of the conus in vertebrates; conclusions with regard to transposition of great vessels; many line drawings and diagrams, some photographs.

80.
J. SMITH. 1977. QUANTITATIVE ANALYSIS OF SPONTANEOUS GROSS ELECTRICAL BRAIN ACTIVITY IN THE EMBRYONIC AND NEWLY HATCHED CHICK; quantification and scoring of EEG-activity in the developing chick by a mini-computer system
Ph. D. thesis, Utrecht. 134 pp., 29 figs., 6 tabs.

Development of EEG (recorded from accessory hyperstriatum) from stage 41 till two days post-hatching; quantitative analysis with three different computer algorithms; extensive computational methodology; comparison with cytological and biochemical literature data.

Symposium reports

81.
D. BERGSMA and W. LENZ, eds. 1977. MORPHOGENESIS AND MALFORMATION OF THE LIMB
Liss, New York. Birth defects: Original Article Series vol. XIII, 1. XII, 364 pp., 178 figs., 30 tabs., subject index. $ 35.00

This conference was held in West Germany some time during 1976 and was attended by 14 specialists from various Western-European countries and 11 from North America. The volume contains 20-odd medium-length reviews of recent research, mostly that of the contributors themselves. All of them are in English and all are followed by usually brief discussions. About half of them are of predominantly clinical interest.

The first ten reviews will be read with interest by all those working on limbs or on organogenesis generally. Among the aspects dealt with are developmental anatomy, histochemistry, collagen biochemistry, and various teratogenetic and genetical approaches, all of this in man and various mammals (occasionally chick) and with reference to different developmental periods.

The book is well produced and profusely illustrated. The numerous photographs and micrographs are well reproduced.

82.
R. J. BLANDAU and D. BERGSMA, eds. 1977. MORPHOGENESIS AND MALFORMATION OF THE GENITAL SYSTEM
Liss, New York. Birth Defects: Original Article Series vol. 13, no. 2. XII, 161 pp., 73 figs., 11 tabs., subject index. $ 18.00

Contributors: Blandau, Jirásek, Jones, Josso, Jost , Wai-sum O, Ohno, O'Rahilly, Rajfer, Smith, Winter

This symposium was held in the U. S. A. in July 1976 and was attended by specialists from North America and various European countries (two groups from Paris). Of the ten short to medium-length, up-to-date reviews two are of exclusively clinical interest, the others are of interest to mammalian and human embryologists and teratologists.

The subjects covered range from sex determination and differentiation in germ cells, through morphogenesis of various parts of the human genital system, to various endocrinological aspects. No discussions are recorded.

The book is well produced and illustrated; most of the photographs and light micrographs are well reproduced.

83.
M. LIEBERMAN and T. SANO, eds. 1976. DEVELOPMENTAL AND PHYSIOLOGICAL CORRELATES OF CARDIAC MUSCLE
Raven, New York. Perspectives in Cardiovascular Research, vol. 1. XIV, 322 pp., 145 figs., 28 tabs., subject index. $ 25.00

This symposium was held in October 1974 in Tokyo. The 48 contributors are from many different countries, the majority from Japan and the United States. The contributions are for the most part brief research reports or surveys of recent research. Most focus on the application of relatively new techniques to embryonic heart muscle cells of birds and mammals, and all but a few are of interest to developmental biologists.

The 20 contributions deal successively with electron microscopy of heart cells *in vivo* and *in vitro*, with several aspects of membrane permeability and electrophysiology of heart cells, and with physiological correlates of heart muscle. Each contribution is followed by a carefully edited summary of the group discussion succeeding it.

The book is luxuriously produced and profusely illustrated. The photomicrographs and electron micrographs are of high quality.

84.
A. RAYNAUD, organiser. 1975. TEMPÉRATURE ET ORGANOGÉNÈSE; Table ronde organisée par la Société Zoologique de France
Soc. Zool. France, Paris., Bull. Soc. Zool. France suppl. 1. 60 pp., 11 figs., 7 tabs.

Five papers in French by French authors; introduction by Raynaud; sex differentiation in *Emys* and *Orchestia;* effects of hypothermia in chick; cell proliferation and organogenesis in amphibian larvae.

85.
A. RAYNAUD, organiser. 1977. MÉCANISMES DE LA RUDIMENTATION DES ORGANES CHEZ LES EMBRYONS DE VERTÉBRÉS
C.N.R.S., Paris. Colloques Intern. du C.N.R.S. no. 266. 423 pp., 85 figs., 55 pls., 26 tabs. Fr. 190.00 (paper)

"Rudimentation" is a newly coined French word which is unfortunately ambiguous in English. It refers, not to "rudiments" as used in English, but to rudimentary organs and their origin. This symposium was held in Toulouse in September 1976 and was attended by specialists mainly from France, the United Kingdom and other West-European countries. Most contributions are brief reviews or summaries of recent work. They are either in French or in English and most have a summary in the other language. Most are followed by a brief group discussion.

Of the 33 main contributions more than two thirds are of interest to embryologists. Ten of these deal with limb development, the others with a variety of other organs in many different vertebrates. Eight papers deal with developmental inhibition due to hormonal factors, nine with disturbances of morphogenetic mechanisms, and three with chemically induced limb abnormalities. A concluding general discussion has a section on the term "rudimentation" and two contributions on phylogenetic aspects of chick limb development.

The volume is well produced and illustrated with good line drawings, photographs and light and electron micrographs.

Treatises

86.
G. POSTE and G. L. NICOLSON, eds. 1976. THE CELL SURFACE IN ANIMAL EMBRYOGENESIS AND DEVELOPMENT
North-Holland, Amsterdam, etc. Cell Surface Reviews, vol. 1. XXIV, 766 pp., 151 figs, 20 tabs., subject index. D.fl.220.00, $ 89.95

Contents: Fertilization (Gwatkin), Cytokinesis in animal cells: new answers to old questions (Arnold), The implanting mouse blastocyst (Sherman and Wudl), Cell surface antigens in mammalian development (Edidin), The transport of molecules across placental membranes (Miller, Koszalka and Brent), On the mechanism of metazoan cell movements (Trinkaus), Inductive tissue interactions (Saxén, Karkinen-Jääskeläinen, Lehtonen, Nordling and Wartiovaara), Cell coupling and cell communication during embryogenesis (Sheridan), Transduction of positional information during development (McMahon and West), Cell interactions in vertebrate limb development (Ede), Heart development: interactions involved in cardiac morphogenesis (Manasek), Development and differentiation of lymphocytes (Goldschneider and Barton), In vitro analysis of surface specificity in embryonic cells (Maslow)

This first volume of a new series is an ambitious undertaking, but the result is impressive. All of the 13 extensive reviews are authoritative, comprehensive, well organised, and interestingly written. A good balance is struck between events at the tissue and cell level and those at lower levels of organisation.

In works such as this it is always possible to disagree with the choice of subjects. I personally feel the chapter on inductive tissue interactions is a bit too long, and I regret that no attention is devoted to neuronal specificity and to work on insect imaginal discs. The chapter on positional information is stimulating but, perhaps inevitably, very speculative in places. The chapter bibliographies are extensive and up to date until 1975.

The book is superbly produced and illustrated.

Textbooks

87.
N. MACLEAN. 1977. THE DIFFERENTIATION OF CELLS
Arnold, London. Genetics - Principles and Perspectives: a series of texts, vol. 1. VIII, 216 pp., 96 figs., 14 tabs., subject index. £ 12.00 (cloth), £ 5.95 (paper)

This book was written for advanced undergraduate and graduate students of genetics and cell biology. It is on the whole a successful, well-balanced synthesis from the viewpoint of cell biology; the presentation of embryological data is not always correct.

The style is stimulating and the conclusions are carefully formulated. The subject is developed logically on the basis of evidence from a broad variety of organisms, starting with the *Protozoa*. Equal attention is devoted to the genome and the cytoplasm. There are separate chapters or sections on the role of hormones, on the cell surface and cell contact, on episomes, viruses and abnormal genetic elements, and on cancer and differentiation.

The illustrations on the whole serve their purpose well, but some do not match the text entirely, or the legends are not extensive enough to bring complete understanding. The 15-page bibliography is of course selective but very useful. The books shows signs of inadequate proofreading.

88.
S. H. BARONDES, ed. 1976. NEURONAL RECOGNITION
Plenum, New York; Chapman & Hall, London. XVI, 367 pp., 104 figs., 13 tabs., subject index. $ 33.00

The significance of this book for developmental biologists is much greater than the title would perhaps suggest. Ever since the days of Harrison, Detwiler and Weiss the nervous system has been a paradigm for other developing systems. This book, by a team of predominantly American authors, expertly reviews the "state of the art" of the cellular and molecular aspects of neurogenesis.

The chapters of greatest interest to our readers are to be found in section I (Specificity in synaptic development and regeneration) and section III (Toward a molecular basis of neuronal recognition). We just mention some of the authors: Jacobson, Fambrough, Bunge in section I; Moscona, Roth, Toole, Barondes in section III. The contribution by Barondes and Rosen has the added interest of drawing a parallel between findings in cellular slime moulds and the nervous system.

89.
G. BUTSCHAK. 1976. BIOCHEMISCHE GRUNDLAGEN DER TEILUNG UND DIFFERENZIERUNG VON NORMAL- UND TUMORZELLEN
Fischer, Jena. 348 pp., 40 figs., 4 pls., 3 tabs., subject index. M 39.00 (paper)

This monograph is a thorough, very comprehensive and critical review of the biochemical basis of cell division and cell differentiation. The more is the pity that it has taken so long to produce. It reflects the state of the field in the beginning of 1973, but so much has happened since that in many areas the author would have placed a different emphasis today. Nevertheless, for the literature prior to about 1973 it is a valuable reference work.

The book is in three well-organised main parts: Biochemistry of cell division, Biochemistry of cell differentiation, and Regulation of cell division and cell differentiation in tumour cells. There are 12 subsections in all, which all have concise but clear summaries.

The book is produced in small offset print and is sparsely illustrated. The references number more than 850 in all.

90.
T. P. EVGENEVA. 1976. INTERCELLULAR INTERACTIONS AND THEIR ROLE IN EVOLUTION (in Russian)
Publ. House Nauka, Moscow. 222 pp., 77 figs., 10 tabs. 1R 20k

Review of studies of cell and tissue interactions in invertebrates as studied in diffusion chambers; morphogenetic capacities *in vitro*; lower and higher marine invertebrate phyla and Tunicates; role of the cell surface (SEM); 24-page bibliography (6 pp. Russian, up to date till 1975); many light and scanning micrographs of reasonable quality.

91.
P. O. SEGLEN. 1974. DIFFERONES; control of gene expression and cellular differentiation by hormones and other agents, with particular emphasis on liver tissue
Univ. Forlaget, Oslo, etc. Norwegian J. Zool., vol. 22, suppl. 1. 131 pp., 4 figs.

Survey and integration of information from various sources bearing on the control of gene expression; 10-page chapter on dynamic theory of differentiation, including classification of "differones" (all agents capable of inducing differentiation, whether intra- or extra-cellular or environmental); 50-page review of actions of differones, with special reference to rat liver cells and hepatoma; some 1,600 references up to 1973.

92.
R. A. BRADSHAW, W. A. FRAZIER, R. C. MERRELL, D. I. GOTTLIEB and R. A. HOGUE-ANGELETTI, eds. 1976. SURFACE MEMBRANE RECEPTORS, interface between cells and their environment
Plenum, New York, etc. Nato Advanced Study Inst. Series, Ser. A: Life Sciences, vol. 11. XIV, 482 pp., 189 figs., 60 tabs., subject index. Dfl. 126.50

We briefly announce this volume in the interest of our readers, particularly those working on cellular slime moulds. The NATO Advanced Study Institute in question was held in Bellagio in September 1975. Six of the 32 research reports deal with *Dictyostelium*, particularly with cell-surface lectins and cyclic AMP receptors (one deals with a macromolecular effector of cell differentiation). The authors are Barondes and Rosen and their group, Gerisch, Malchow *et al.*, Town, and Darmon *et al.*

Other papers deal with sponge cell aggregation (Burger's group), adhesion of neurons (Gottlieb's group), and membrane components in differentiating muscle cells (Prives).

93.
N. MÜLLER-BÉRAT, ed. 1976. PROGRESS IN DIFFERENTIATION RESEARCH, proceedings of the Second International Conference on Differentiation, Copenhagen, Denmark, 8-12 September, 1975
North-Holland, Amsterdam; Amer. Elsevier, New York. X, 588 pp., 241 figs., 2 pls., 69 tabs., index to contributors and subject index. $ 46.25, Dfl. 120.00

This conference brought together a large number of workers from all over the world. Among the contributors were established authorities but also many younger people. Like the report of the first conference in this series the book is heterogeneous but provides a useful cross section of the many different approaches and systems being used at present. Most of the contributions are short research reports or reviews of recent work.

The 58 contributions are grouped into six sections as follows: Cell proliferation, growth and expression of differentiation potential by proliferating cells (9 papers); Regulation of gene activity and chromatin activity during cell differentiation (11); Cell membranes and cell surfaces in relation to differentiation (4); Aspects of carcinogenic disorders and differentiation (15); Hormonal induction of cell differentiation (7); Normal and malignant hemopoiesis as a model of differentiation (12). No group discussions are recorded.

The book is produced from typescripts in good offset print and profusely illustrated; the numerous photographs are well reproduced. The subject index is curiously deficient.

DEVELOPMENTAL BIOCHEMISTRY, MOLECULAR BIOLOGY (see also 13,16,25,62 , 63,89,91,93)

Textbooks

94.
E. H. DAVIDSON. 1976. GENE ACTIVITY IN EARLY DEVELOPMENT. 2nd edit. Academic Press, New York, etc. XVI, 452 pp., 87 figs., 16 tabs., combined subject and species index. $ 18.50, £ 13.15

Contents: 1. Introduction: the variable gene activity theory of cell differentiation; 2. The onset of genome control in embryogenesis; 3. First indices of differential embryo

cell function; 4. Quantitative aspects of protein synthesis in early embryos: the role of maternal components; 5. Transcription in early embryos; 6. RNA sequence complexity and structural gene transcription in early embryos; 7. Localization of morphogenetic determinants in egg cytoplasm; 8. Lampbrush chromosomes and the synthesis of heterogeneous nuclear and messenger RNA's during oogenesis

An indication of the enormous growth of the area covered by this book is the length of the bibliography, which has almost doubled since the first edition even though part of the original references have been deleted. The contents of the book have been considerably rearranged and the book is in fact almost a new one. We must be grateful to the author for undertaking this arduous task with such excellent results and without unduly increasing the size. That the treatment is basically organised around his personal views and interpretations is understandable and increases rather than decreases the book's value.

As in the first edition, the basic tenet is that regulation at the transcriptional level is the fundamental process underlying differentiation and development. This, and the emphasis on early stages, is probably the reason why a class of problems which are considered fundamental by many embryologists, i.e. induction, determination and competence, receive little or no attention as subjects in their own right. One hopes that these problems, though elusive at present, will also capture the attention of molecular embryologists in the years to come.

Apart from numerous extensions of the original material, the major new features are ch.4 and the first section of ch.6, which deals with nucleic acid sequence complexity and the kinetics of renaturation and hybridisation.

The book is attractively produced and illustrated. The 48-page bibliography is remarkably up to date. (An oddity is that Crawford and Wilde's 1973 experiments with pactamycin in *Fundulus* are not included.) The absence of an author index is to be regretted; it would have been easy to use the bibliography for that purpose.

Monographs

95.
N.MACLEAN. 1976. CONTROL OF GENE EXPRESSION
Academic Press, London, etc. XII, 348 pp., 21 figs., 6 tabs., author and subject indexes. £ 7.80, $ 19.25

Contents: 1. The control of gene expression and its levels of action; 2. Gene expression in prokaryotes; 3. Experimental systems of differential gene function in eukaryotes - systems involving one type of protein; 4. Experimental systems of differential gene functions in eukaryotes - systems of limited complexity; 5. Experimental system of differential gene functions in eukaryotes - systems not well understood in molecular terms; 6. RNA involvement in gene expression; 7. General concepts of gene regulation

The level of treatment in this well-written book is between that of an introduction and that of a specialised monograph. For the student making up his mind on what research to embark on it is a stimulating guide. The main function it may perform for the specialist is to make him more aware of the advances in and the potential of systems other than that on which he happens to be working.

The main substance of the book is to be found in chapters 3-5. In ch.3 "system" means a particular type of protein; eight such proteins are discussed, ranging from immunoglobulins to vertebrate egg proteins and including two insect proteins. In chs. 4 and 5 "system" usually means a tissue, organ or organism, occasionally an approach or a class of proteins. Many phyla, both plant and animal, are represented.

The bibliography, though selective, covers 34 pages and is up to date until 1974. The book is attractively produced and illustrated.

Dissertations

96.
J. HAKKARAINEN. 1975. DEVELOPMENTAL CHANGES OF PROTEIN, RNA, DNA, LIPID, AND GLYCOGEN IN THE LIVER, SKELETAL MUSCLE AND BRAIN OF THE PIGLET; a methodological and experimental study with special reference to protein synthesis
D. V. M. thesis, Stockholm. Acta Veterinaria Scandinavica suppl. 59. 198 pp., 40 figs., 17 tabs.

Modified method for sequential and quantitative separation and determination of various components in frozen tissues; studies of protein synthesis with ^{14}C-leucine; comprehensive developmental studies from 45 d. *in utero* till 42 d. postnatally; comparison with rat and other mammals.

DEVELOPMENTAL GENETICS, EVOLUTION (see also 87,94,95)

Monographs

97.
A. McLAREN. 1976. MAMMALIAN CHIMAERAS
Cambridge Univ. Press, Cambridge, etc. Developmental and Cell Biology Series vol. 4. VI, 154 pp., 43 figs., 13 tabs., author and subject indexes. £ 8.00

By the time this review appears this monograph will have been completed three years ago, which is a long time in a rapidly moving field like this. Yet we may safely say that it will long remain a firm foundation to build on for those who are entering the field, as well as a great help for all mammalian embryologists.

The subject matter is subdivided into 11 short, readable chapters. Two of these deal primarily with experimental-embryological aspects, five with developmental genetics. The last of these is entitled Chimaeras *versus* mosaics. A separate chapter thoughtfully and critically discusses the distribution of cell populations in the embryo, in other words, the problem of "clones and patches".

The book is beautifully produced and well illustrated. The 14-page bibliography ends in 1974, with the exception of the publications of the author and her associates. Three important papers published in 1975 have been added in proof. The subject index could have been longer; particularly unfortunate is the omission of "determination" and "allocation".

98.
R. MATSUDA. 1976. MORPHOLOGY AND EVOLUTION OF THE INSECT ABDOMEN, with special reference to developmental patterns and their bearings upon systematics
Pergamon, Oxford, etc. Internat. Series in Pure and Applied Biology, Zool. Div. vol. 56. VIII, 534 pp., 155 figs., taxonomic, author and subject indexes. £ 16.00, $ 35.00

The author of this exhaustive monograph has previously written two similar, though shorter works, one on the insect head (1965) and one on the thorax (1970). In the present work, however, more stress is placed on developmental aspects. Part I, which occupies 48 pages and discusses these aspects in a general way, is not restricted to the abdomen nor indeed to insects. It deals with various aspects of heterochrony and with substitution, homology and analogy of organs on the basis of the modern literature. It is odd that heteromorphosis or homeosis, for which some recent authors have suggested important roles in evolution, is not even mentioned in passing.

Part II (60 pp.) deals mainly with general aspects of abdominal segmentation, abdominal appendages, and external and internal genitalia. Finally, Part III covers the available data in the individual orders. In most orders some attention is devoted to the origin of the

germ cells. The musculature is not treated because the author is convinced that it is not important in establishing homologies.

The book is well produced and illustrated with numerous good line drawings. It has a bibliography of 71 pages.

Reference works

99.
R. RIEGER, A. MICHAELIS and M. M. GREEN. 1976. GLOSSARY OF GENETICS AND CYTOGENETICS, classical and molecular. 4th completely revised edit.
Springer, Berlin, etc. 647 pp., 100 figs., 8 tabs. DM 36.00, $ 14.80, £ 8.35 (paper)

It is a pleasure to announce a new edition of this well-known glossary. The tremendous development of the field since 1968 is reflected in a size increase of some 150 pages. About half of the text has been completely rewritten. One seldom turns to the book in vain. After spending an hour with it the only serious omissions this embryologist (!) could find were "germinal granules" and "sturt".

DEVELOPMENTAL PHYSIOLOGY (incl. endocrinology, immunology, behaviour, etc.)

(see also 27,29,41,44,47,50,51,70,72,75,80,91,93)

Textbooks

100
M.-Th. CHALUMEAU. 1976. PRÉCIS D'IMMUNOLOGIE
Presses Univ., de France. Serie: Le Biologiste. 239 pp., 25 figs., 8 tabs.

This is a well-written and well-organised introductory text. The reason why we review it here is that it contains several sections which could be useful to students and others interested in developmental immunology.

Part One deals with the fundamentals of the immune reaction and its technical, biochemical and cellular aspects. Part Two treats the immune reaction in the living organism. It contains brief accounts of the development of immune competence and of the immune system (including cellular differentiation). Part Three, entitled The immune reaction in the laboratory, has a final section on the application of immunological techniques to the problem of cellular differentiation.

Although authors' names are frequently used in the text, the bibliography is restricted to nine recent books and articles. The book is illustrated with good line drawings and diagrams and has a useful glossary.

Monographs

101.
B. L. MIRKIN, ed. 1976. PERINATAL PHARMACOLOGY AND THERAPEUTICS
Academic Press, New York, etc. XII, 455 pp., 38 figs., 31 tabs., subject index. $ 24.50

Contents: 1. Placental transfer of pharmacologically active molecules (Mirkin and Singh); 2. Drug biotransformation reactions in the placenta (Juchau); 3. Disposition of drugs in the fetus (Waddell and Marlowe); 4. Pharmacologically induced modifications of behavioral and neurochemical development (Thorburg and Moore); 5. Clinical implications of perinatal pharmacology (Yaffe and Stern)

This book was written by an all-American team of experts. It consists of five well-organised reviews which discuss critically and in depth the main areas that are currently under active investigation in this field. Areas where the amount of data was considered in-

sufficient to allow of substantive conclusions were omitted.

The table of contents above speaks for itself. Ch. 5 has a 6-page section on teratogenic effects of drugs. The chapter bibliographies run up to 1972/73, with occasional updatings. They reflect the rather strong bias towards literature published in English which is common in books by Anglo-Saxon authors.

The book is well produced and adequately illustrated.

102.
P. W. NATHANIELSZ. 1976. FETAL ENDOCRINOLOGY, an experimental approach North-Holland, Amsterdam, etc. Monographs in Fetal Physiology, vol. 1. XIV, 261 pp., 72 figs., 13 tabs., subject index. Dfl. 75.00, $ 30.75

This monograph is a thorough and critical review of fetal endocrinology against the background of sequential data obtained from the chronically catheterised sheep fetus. The author carefully evaluates the similarities and differences between the sheep and other experimental mammals and man, and devotes much attention to the criteria of physiological normality during experiments.

After a general introduction and a chapter on methodology the subject matter is treated partly by organ systems (testis, hypothalamo-hypophysial-portal system, thyroid - two chapters of which one on ruminants - and neurohypophysis), and partly by hormones. A final chapter deals with parturition and the feto-placental unit. An appendix lists methods for the calculation of the production rate of fetal hormones. The endocrinology of carbohydrate and intermediary metabolism will be dealt with in a subsequent volume of the series.

The book is luxuriously produced; it is illustrated mainly with graphs and line drawings. The bibliography numbers over 600 titles; I do not know whether this reflects the actual state of things, but it is striking that it contains almost no non-English titles.

Dissertations

103.
X. CHARDONNENS. 1976. LA TOLÉRANCE AUX ANTIGÈNES D'HISTOCOMPATIBILITÉ PENDANT LA MÉTAMORPHOSE DE L'AMPHIBIEN ANOURE, XENOPUS LAEVIS: un modèle pour l'étude de la tolérance au self
Ph. D. thesis, Genève. 173 pp., 10 figs., 9 tabs. (mimeographed)

Study on larval, metamorphic and adult stages, using skin grafts, mixed lymphocyte reaction and agglutination reaction; conclusions regarding major and minor histocompatibility systems; evidence for tolerance during metamorphosis.

Symposium reports

104.
M. DURCHON, organizer. 1976. ACTUALITÉS SUR LES HORMONES D'INVERTÉBRÉS
Centre Natl. de la Recherche Scient., Paris. Colloques Internat. du C. N. R. S. 251. 516 pp., 156 figs., 40 tabs. Ffr. 130.00

This international symposium took place in Villeneuve d'Ascq in September 1975. The majority of the participants were from various European countries (with France predominating), but a dozen came from North America. The stress lay on the biosynthesis, metabolism and cellular action of invertebrate hormones. Of the 50 contributions at least ten may be of interest to developmental biologists. These deal with hydroids, planarians, annelids (3), molluscs, and insects (5). Three deal specifically with oogenesis in *Perinereis* and *Octopus*.

The papers are in French or English but all have summaries in both languages. The volume is illustrated with line drawings.

105.
L. I. GILBERT, ed. 1976. THE JUVENILE HORMONES
Plenum, New York, etc, X, 572 pp., 141 figs., 116 tabs., subject index. $ 54.00

Parts: I. Chemistry of the juvenile hormones and juvenile hormone analogs; II. Biosynthesis and metabolism of juvenile hormone; III. Juvenile hormone effects at the cellular level; IV. Juvenile hormone effects at the molecular level (binding and transport); V. Effects of juvenile hormone at the molecular level (protein synthesis)

This symposium was held in Lake Geneva, Wis. in November 1975. Although it is evidently of major significance to insect endocrinologists, at least one third of it is of importance to developmental biologists. The participants came mainly from North America and Western Europe. Most of the contributions are medium-length research reports; some contain considerable review material; much of the material was unpublished at the time of the symposium. Each of the five parts listed above is preceded by a most useful and interesting summary of about half a dozen pages.

Almost all of the eight papers in Part III are of direct interest to workers in insect morphogenesis. Most focus on the interaction between JH and ecdysone. Among the contributors we mention the following: Krishna Kumaran, Riddiford, Oberlander, Masner, Lezzi, Willis, and Sehnal. A paper by Fristrom *et al.* in Part V deals with *Drosophila* imaginal discs.

The book is produced in good offset print and adequately illustrated.

106.
M. LÜSCHER, ed. 1976. PHASE AND CASTE DETERMINATION IN INSECTS, endocrine aspects
Pergamon, Oxford, etc. VIII, 130 pp., 34 figs., 24 tabs., £ 7.50, $ 15.00

Contributors: Brian, de Wilde, Hales, Hrdý, Lenz, Lüscher, Rembold, Röseler, Steel, Velthuis

The notion of an involvement of hormones (particularly JH) in phase and caste determination is a relatively recent one. This symposium, which was held in Washington DC some time during 1976, was devoted to this notion. Most of the contributors came from Western Europe (one each from Australia and Canada). The introductory paper was contributed by Lüscher. Nine of the ten main contributions are reviews in English of recent work on various bees, ants, termites and aphids. The paper by Hrdý is only an abstract.

In the interest of rapid publication the papers were reproduced direct from the typescripts and no attempt was made to reduce overlap. The book is adequately illustrated; it has no indexes.

METHODS (no entries, but see 58,96,102)

HISTORY, BIOGRAPHIES, etc.

Monographs

107.
D. J. HARAWAY. 1976. CRYSTALS, FABRICS, AND FIELDS, metaphors of organicism in twentieth-century developmental biology
Yale Univ. Press, New Haven, etc. X, 231 pp., combined subject and name index. $ 15.00

The argument in this book hinges strongly on Thomas Kuhn's controversial ideas concerning the evolution of science. The author regards the twentieth-century switch from mechanicism to organicism as a paradigm change in the Kuhnian sense. This aspect of the

book will appeal most to the professional historian and philosopher of science.

However, quite apart from such issues the bulk of the book will be of great value to those embryologists who are interested in the origin of the ideas and concepts they are using, and generally to all biologists who want to be conscious of the more philosophical context of their often automatic or traditional ways of thinking. And it cannot be denied that a concept such as morphogenetic field, though pronounced meaningless by some, is still considered useful and even indispensable by many others.

The part of the book to which I am referring consists of chapters 2-5. Ch.2 is a thoughtful brief essay on the origins and elements of organicism. The other three chapters lucidly review the intellectual development of three great men of the era in question: Ross G. Harrison, Joseph Needham, and Paul Weiss. These make delightful reading for anyone even remotely interested.

The book is attractively produced but is disfigured by rather many printing errors. It has no illustrations. The most recent references (e.g. Thom, Wolpert) do not include the definitive published works of these authors. The long index conforms to scholarly standards.

MISCELLANEOUS ITEMS (no entries)