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Recd Nov. 17<sup>th</sup> 1862

**DESCRIPTION OF A NEW GENUS (TRYPANOSTOMA)**

OF THE

Family MELANIDÆ, and of Forty-five New Species.

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**DESCRIPTION OF TEN NEW SPECIES OF UNIONIDÆ**  
OF THE UNITED STATES.

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**DESCRIPTION OF TWO NEW SPECIES OF EXOTIC**  
UNIONES AND ONE MONOCONDYLÆA.

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**DESCRIPTION OF A NEW GENUS (GONIOBASIS)**  
OF THE

Family MELANIDÆ, and Eighty-two Species.

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**DESCRIPTION OF ELEVEN NEW SPECIES OF MELANIDÆ**  
OF THE UNITED STATES.

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BY

**ISAAC LEA, LL. D.**

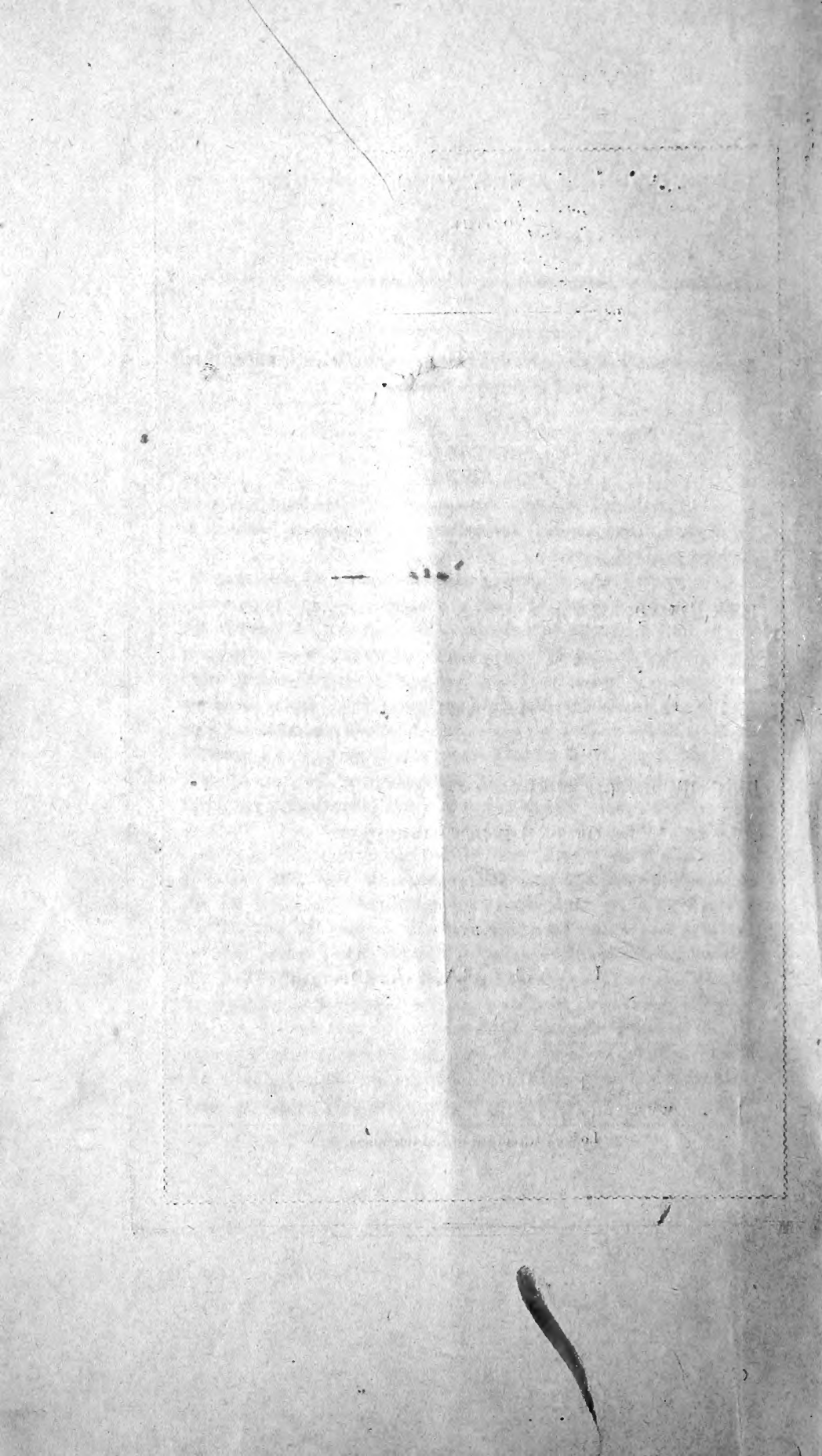
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Extracts from the Proceedings of the Academy of Natural Sciences of Philadelphia, of papers,  
By ISAAC LEA.

Description of a New Genus, (TRYPANOSTOMA) of the Family MELANIDÆ,  
and of forty-five New Species.

BY ISAAC LEA.

Read April 15th, 1862.

Family MELANIDÆ.

Genus TRYPANOSTOMA.\*—Testa conica, apertura rhomboidea, infernè sub-canaliculata. Labro expanso. Columella lævis, infernè contorta. Operculum corneum, ad spiram pertinens.

The enormous number of species in the genus *Melania*, has made it very desirable to eliminate as many as possible, by founding new genera, when well-characterised groups can be established. With this view, I proposed, in the Proceedings of the Academy in April last, the genus *Strepobasis*. The genus now proposed, under the name of *Trypanostoma*, will include all the well-known *Melaniae* with an *auger-shaped* aperture, the type of which may be considered Mr. Say's *Melania canaliculata*, a common and well-known species from the basin of the Ohio River. It will include a number of large species, indeed, nearly all of the large and ponderous species of the United States. Many new ones will be found in this paper. Objections may be raised against increasing the number of genera without the aid of the examination of the soft parts. But there is no validity in this objection, from the fact, that in the present condition of the Science of Malacology, we are becoming acquainted with a vast number of new and interesting forms, without the hope, at present, of seeing the soft portion of the animals. These may, at some future time, and, no doubt, will be examined and carefully described by Zoologists, who may dwell near the waters where these numerous and highly developed species reside. Until this takes place, we can only group them upon the characters which are presented by their outward hard portions, which are accessible to us now.

In proposing this new genus, I am aware that European Zoologists have made many genera and subgenera in this Family, but none have made groups of our numerous species by which they can be properly divided. They have mixed

\* Τρύπανον, an auger, and στόμα, a mouth.

High name may be syn. with *Ceriphasia*, Swains, 1830.  
It is certainly identical with that ~~or~~ *Telescopella*  
of Gray 1847, which is thought by some, including Mr.  
Gray, to be a sic. of Swainson's S. The type of  
*Telescopella*, is *Mel. undulata*, Say, a true *Trypanostoma*  
of Lea. Gray's name should probably be used.  
*Megara*, Adams 1850, is in part syn. with this group,  
though the type is *Trypanostoma*

them up, notwithstanding all the time and care they have bestowed upon them, in a manner so as to make great confusion. Mr. Swainson, in his "Treatise on Malacology," proposed a subgenus of *Melania* under the name of *Ceriphasia*, and gives a figure, page 204, (*C. sulcata*), stating it came from Ohio. It is evident, on looking on this figure, that it does not represent any Ohio species, neither in the aperture nor in the revolving ribs. Dr. Gray and the Messrs. Adams\* adopt the genus, and the latter give a figure (pl. 31, fig. 6) of *canaliculata*, Say, as the type, which I do not think answers to the description or figure of Mr. Swainson. Dr. Gray, in his excellent "List of the genera of Recent Mollusca," in the Proceedings of the Zoological Society, expresses a doubt whether his *Telescopella* may not be the same with *Ceriphasia*. Mr. Reeve, in his beautiful work, "Conchologia Iconica," mixes many of our species in a manner that does not admit of their being separated into groups; and Dr. Cheau ("Manuel de Conchyliologie") groups together some very incongruously. Many of our groups are emphatically American, and the divisions made by our zoologists have not had the attention they deserve from European writers. Thus, neither Dr. Gray, Mr. Reeve, nor the Messrs. Adams adopt Prof. Haldeman's genus *Lithasia*, established so long since, and which is an easily recognized group. Mr. Reeve puts the various species of that group into my genus *Io* to which they certainly do not belong, and Dr. Chenu puts part of them there. The genus *Ammicola*, long since proposed by Gould and Haldeman, for a very natural group of small shells, divided from *Paludina*, is not recognized by Chenu or Reeve.

In a future paper I propose to define the groups into which our *Melanide* seem naturally to divide themselves, adopting the well recognized genera which have been established.

TRYPANOSTOMA DUX.—Testâ carinatâ, pyramidatâ, crassâ, rufo-fuscescente; spirâ valdè elevatâ; suturis paulisper impressis; anfractibus instar novenis, planulatis; aperturâ subgrandi, rhombicâ, intus pallido salmoniâ; labro acuto, sinuoso; columellâ incrassatâ et valdè contortâ.

Hab.—Tennessee River, W. Spillman, M. D. Fox River, Illinois, J. Sampson. Oostenaula, Rev. G. White. Tusculumbia, B. Pybas.

TRYPANOSTOMA THORTONII.—Testâ carinatâ, pyramidatâ, subcrassâ, corneâ

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\* Messrs. Adams for the type of subgenus *Juga* give *Buddii*, Say. I am not aware that Mr. Say described any Melanian under that name; and in *Megara* they give *abveare*, Con. and *basalis*, Lea, as types, while they certainly belong to very different groups, having very differently formed apertures.

# yes it is recognized by Chenu (see p. 308 vol. 1. of his Man. de Conch.)

vel vittatâ vel evittatâ; spirâ regulariter elevatâ; suturis parum impressis; anfractibus instar denis, planulatis; aperturâ parviusculâ, rhomboideâ, intus albidâ; labro acuto, valdè sinuoso; columellâ infernè incrassatâ et valdè contortâ.

*Hab.*—Tuscumbia, Ala., L. B. Thorton, Esq. and Rev. G. White. Chatanooga, Tenn., J. Clark.

*TRYPANOSTOMA TROOSTII.*—Testâ carinatâ, conoideâ, valdè inflatâ, vel luteo-corneâ vel viridescente, vel vittatâ vel evittatâ; spirâ elevatâ; suturis valdè et irregulariter impressis; anfractibus instar novenis, subimpressis, interdum canaliculatis; aperturâ grandi, rhomboideâ, intus albidâ, interdum vittatâ; labro acuto, sinuoso; columellâ infernè incrassatâ et valdè contortâ.

*Hab.*—Tennessee, Prof. G. Troost. Florence, Ala., Rev. G. White. Oostenaula River, Ga., Bishop Elliott; and Fox River, near New Harmony, Indiana, J. Sampson.

*TRYPANOSTOMA INCURVUM.*—Testâ carinatâ, conoideâ, subtenui, corneâ; spirâ subelevatâ; suturis regulariter impressis; anfractibus octonis, planulatis, infernè obsolete striatis; aperturâ parviusculâ, rhomboideâ, intus albidâ; labro acuto, sigmoideo; columellâ valdè contortâ.

*Hab.*—Florence, Ala., Rev. G. White.

*TRYPANOSTOMA POSTELLII.*—Testâ carinatâ, pyramidatâ, subcrassâ, corneâ; spirâ regulariter conicâ; suturis valdè impressis; anfractibus octonis, vel planulatis vel impressis, ultimo parviusculo; aperturâ parvissimâ, rhomboideâ, intus albidâ; labro acuto, valdè sinuoso; columellâ infernè incrassatâ et valdè contortâ.

*Hab.*—Tennessee River, J. Postell. North Alabama, Prof. Tuomey.

*TRYPANOSTOMA TUOMEYI.*—Testâ carinatâ, crassiusculâ, elevato-conicâ, tenebroso-fuscâ; spirâ elevato-conicâ; suturis vix impressis; anfractibus instar denis, planulatis, infernè obsolete striatis; aperturâ parvâ, rhomboideâ, intus tenebrosâ; labro acuto, sinuoso; columellâ paulisper incrassatâ, et valdè contortâ.

*Hab.*—North Ala., Prof. Tuomey. Florence, Ala., Rev. G. White.

*TRYPANOSTOMA FLORENCENSE.*—Testâ subcarinatâ, turrîtâ, subcrassâ, tenebroso-fuscâ vel luteo-corneâ, obsolete vittatâ vel evittatâ; spirâ valdè elevatâ; suturis leviter impressis; anfractibus instar undenis, paulisper convexis; aperturâ parviusculâ, rhomboideâ, intus cæruleo-albâ; labro acuto, sinuoso; columellâ albidâ et valdè contortâ.

*Hab.*—Florence, Ala., Dr. Spillman. Tuscumbia, L. B. Thornton, Esq.

*TRYPANOSTOMA CLARKII*.—Testâ obtusè carinatâ, conicâ, subcrassâ, tenebroso-olivâ; spirâ elevatâ; suturis valdè impressis; anfractibus instar octonis, planulatis; aperturâ parviusculâ, rhomboideâ, intus albidâ; labro acuto, sinuoso; columellâ albâ et contortâ.

*Hab.*—French-Broad and Tellico Creeks, Tenn., J. Clark and Prof. Christy. Florence, Ala., G. White. Noxubee River, Miss., Dr. Spillman; and Clinch River, Tenn., Dr. Warder. Coosa, Cahawba and Alabama Rivers, Ala., Dr. Showalter.

*TRYPANOSTOMA ALABAMENSE*.—Testâ carinatâ, crassiusculâ, subfusiformi, tenebroso-corneâ; spirâ subattenuatâ; suturis regulariter impressis; anfractibus instar octonis, planulatis, infernè striatis; aperturâ parviusculâ; rhomboideâ, intus albidâ; labro acuto, sinuoso; columellâ infernè incrassatâ et valdè contortâ.

*Hab.*—North Alabama, Prof. Tuomey. Florence, Ala., Rev. G. White.

*TRYPANOSTOMA LIGATUM*.—Testâ carinatâ, fusiformi, subcrassâ, inflatâ, nitidâ, vittatâ vel evittatâ, luteo-olivâ; spirâ obtusè conicâ; suturis impressis; anfractibus septenis, convexiusculis, ultimo pergrandi, ligatâ apud peripheriam; aperturâ grandi, rhomboideâ, intus obsoletè vittatâ; labro acuto, sinuoso; columellâ infernè incrassatâ, ad basim rufo-maculatâ, valdè contortâ.

*Hab.*—Tennessee, Prof. Troost. Cumberland, River, T. C. Downie. North Ala., Prof. Tuomey. Ohio River at Cincinnati, U. P. James.

*TRYPANOSTOMA PYBASHI*.—Testâ obtusè carinatâ, obtusè conicâ, solidâ, bivittâ, viridi-fuscâ; spirâ obtusâ; suturis valdè impressis; anfractibus instar octonis, convexiusculis; aperturâ parvâ, rhombicâ, intus albâ et vittatâ; labro acuto, valdè sinuoso; columellâ infernè incrassatâ et valdè contortâ.

*Hab.*—Tuscumbia, Ala., B. Pybas.

*TRYPANOSTOMA OLIVACEUM*.—Testâ carinatâ, subfusiformi, subcrassâ, olivaceâ; spirâ subobtusâ; suturis impressis; anfractibus instar octonis, planulatis; aperturâ subgrandi, rhomboideâ, intus albidâ; labro acuto, sinuoso; columellâ infernè incrassatâ et valdè contortâ.

*Hab.*—Tombigbee River, Mississippi, W. Spillman, M. D.

*TRYPANOSTOMA MONILIFERUM*.—Testâ tuberculatâ, crassâ, pyramidatâ, vel luteolâ vel virenti, vittatâ vel evittatâ; spirâ elevato-pyramidatâ; suturis irregulariter impressis; anfractibus instar denis, planulatis, infernè striatis, interdum obsoletè sulcatis, ad peripheriam tuberculatis; aperturâ subgrandi, rhomboideâ, intus vel albidâ vel salmoniâ, plerumquè bivittatâ; labro acuto, valdè sinuoso; columellâ infernè incrassatâ et valdè contortâ.



*Hab.*—Tennessee, Prof. Troost and Mr. Anthony. Florence, Ala., Rev. G. White, Mr. Pybas and Mr. Thornton. Cumberland River, Dr. Powell. Ohio River, near the mouth, in Illinois, J. Donaldson. New Harmony, Indiana, Mr. Carley and Mr. Sampson. Warrior River, Ala., Prof. Brumby.

**TRYPANOSTOMA LEWISII.**—Testâ sulcatâ, subtenui, elevato-conicâ, tenebrososâ vel corneâ, vittatâ; spirâ attenuatâ; suturis paulisper impressis; anfractibus instar undenis, planulatis; aperturâ parvâ, subrhoideâ, intus vittatâ; labro acuto, paulisper sinuoso; columellâ infernè paulisper incrassatâ et valdè contortâ.

*Hab.*—Peoria, Illinois, J. Lewis, M. D.

**TRYPANOSTOMA MOBIFORMI.**—Testâ sulcatâ, subcylindraceâ, solidâ, uno-vittatâ, corneâ, spirâ obtusè conicâ; suturis impressis; anfractibus instar novenis, impressis, canaliculatis; aperturâ parviusculâ, rhombicâ, intus albâ et uno-vittatâ; labro acuto, valdè sinuoso; columellâ infernè incrassatâ et valdè contortâ.

*Hab.*—Oostenaula River, near Rome, Ga., Rev. G. White. Tenn. River, Dr. Spillman. Tuscumbia, Ala. B. Pybas.

**TRYPANOSTOMA VIRIDE.**—Testâ subsulcatâ, subcrassâ, subfusiformi, olivaceâ; spirâ obtusè conicâ; suturis valdè impressis; anfractibus septenis, convexis, ultimo subcanaliculato; aperturâ subgrandi, rhoideâ, intus vel purpureâ vel albidâ; labro acuto, sinuoso; columellâ infernè incrassatâ et paulisper contortâ.

*Hab.*—Tennessee, Prof. Troost.

**TRYPANOSTOMA SHOWALTERII.**—Testâ striatâ, interdum lævi, valdè exertâ, crassâ, subcylindraceâ, vel corneâ vel fuscâ, interdum infernè vittatâ; spirâ valdè elevatâ; suturis valdè impressis; anfractibus novenis, subplanulatis; aperturâ parvâ, rhoideâ, intus vel albidâ vel salmoniâ; labro acuto, parum sinuoso; columellâ infernè incrassatâ et valdè contortâ.

*Hab.*—Cahawba River, Ala., E. R. Showalter, M. D. Tuscaloosa, Ala., Dr. Budd. Oostenaula River, Ga., Rev. G. White and Bishop Elliott.

**TRYPANOSTOMA ANTHONYI.**—Testâ rugoso-striatâ, pyramidatâ, crassâ, luteo-olivaceâ; spirâ elevatâ; suturis rugoso-impressis; anfractibus instar novenis, planulatis; aperturâ subgrandi, rhoideâ, intus albâ; labro acuto, sinuoso; columellâ infernè incrassatâ et valdè contortâ.

*Hab.*—Tennessee, J. G. Anthony. Warrior River and Yellowleaf Creek, Ala., Dr. Showalter. Fox River, Indiana; J. Sampson.

*TRYPANOSTOMA STRIATUM*.—Testâ striatâ, subulari, subtenui, corneâ; spirâ elevatâ; suturis impressis; anfractibus instar octonis, convexiusculis, ultimo parviusculo; aperturâ parvâ, subrhoiboideâ, intus albidâ; labro acuto, valde sinuoso, expanso; columellâ paulisper incrassatâ et valde sinuosâ.

*Hab.*—Florence, Ala., B. Pybas.

*TRYPANOSTOMA HARTMANI*.—Testâ lævi, interdum obsolete canaliculatâ, solidâ, virente vel rufo-fuscescente, regulariter conicâ, vittatâ vel evittatâ; spirâ pyramidatâ; suturis regulariter impressis; anfractibus instar novenis, convexiusculis; aperturâ parvâ, rhoiboideâ, intus vel albâ vel salmoniâ; labro acuto, sinuoso; columellâ infernè incrassatâ et valdè contortâ.

*Hab.*—Cahawba and Coosa Rivers, Dr. Showalter. Warrior River, Alabama, Dr. Budd. Knoxville, J. Clark. Tenn. River, Ala., Dr. Spillman.

*TRYPANOSTOMA JAYI*.—Testâ lævi, subpupoideâ, crassâ, nitidâ, rufo-fuscâ; spirâ obtuso-conicâ; suturis valdè impressis, anfractibus octonis, subtumidis, ultimo subgrandi; aperturâ parvâ, rhoiboideâ, subangustâ, intus pallido-fuscâ; labro acuto, sinuoso; columellâ infernè incrassatâ et contortâ.

*Hab.*—, Alabama? J. C. Jay, M. D.

*TRYPANOSTOMA SPILLMANI*.—Testâ lævi, regulariter conicâ, tenebroso-olivâ; spirâ elevatâ; suturis regulariter impressis; anfractibus instar novenis, planulatis; aperturâ parviusculâ, rhoiboideâ, intus albidâ, interdum vittatâ; labro acuto, sinuoso; columellâ albâ et valdè contortâ.

*Hab.*—Noxubee River, Miss., W. Spillman, M. D.; and Tenn., J. Clark.

*TRYPANOSTOMA CHRISTYI*.—Testâ lævi, elevato-conicâ, crassiusculâ, corneâ, rarè vittatâ; spirâ valdè elevatâ; suturis regulariter impressis; anfractibus instar denis, parum convexis; aperturâ parvâ, subrhoiboideâ, intus albidâ; labro acuto, sinuoso; columellâ albâ et contortâ.

*Hab.*—Cane Creek, Tenn., Prof. D. Christy.

*TRYPANOSTOMA LABIATUM*.—Testâ lævi, acuto-conicâ, subcrassâ, nitidâ, virido-corneâ; spirâ attenuatâ, mucronatâ; suturis regulariter impressis; anfractibus instar denis, convexiusculis, ad apicem carinatis, ultimo subgrandi; aperturâ parviusculâ, rhoiboideâ, intus albidâ; labro acuto, juxtâ marginem incrassato, valdè dilatato, valdè sinuoso; columellâ albidâ, infernè incrassatâ et valdè contortâ.

*Hab.*—Big Miami River, Ohio, J. Clark.

*TRYPANOSTOMA WHITEI*.—Testâ lævi, attenuato-conicâ, crassiusculâ, tenebroso-corneâ; spirâ valdè elevatâ; suturis regulariter impressis; anfractibus

instar novenis, convexiusculis; aperturâ parvâ, subrhomboideâ, intus albidâ; labro acuto, sinuoso; columellâ infernè incrassatâ et contortâ.

*Hab.*—Lafayette co. and Marietta, Ga., Rev. G. White. Farland's Creek, Mississippi, Dr. Spillman; and Tenn., J. G. Anthony.

*TRYPANOSTOMA ESTABROOKII.*—Testâ lævi, attenuato-conicâ, subtenui, corneâ; spirâ valdè elevatâ, supernè carinatâ; suturis regulariter impressis; anfractibus instar denis, convexis; aperturâ parvâ, subrhomboideâ, intus albidâ; labro acuto, subsinuoso; columellâ albâ et contortâ.

*Hab.*—East Tennessee, President Estabrook and Bishop Elliott. Near Cleveland, Tenn., Prof. Christy; and Monroe co., Tenn., J. Clark.

*TRYPANOSTOMA KNOXVILLENSE.*—Testâ lævi, subulari, subtenui, pallido-corneâ; spirâ attenuato-conicâ, mucronatâ; suturis regulariter impressis; anfractibus denis, convexiusculis, ad apicem carinatis, ultimo subconstricto; aperturâ parvâ, subrhomboideâ, intus albâ; labro acuto, sinuoso; columellâ infernè incrassatâ et paulisper contortâ.

*Hab.*—Knoxville, Tenn., Pres. Estabrook.

*TRYPANOSTOMA ATTENUATUM.*—Testâ lævi, subulari, subtenui, corneâ; spirâ attenuatâ; suturis impressis; anfractibus novenis, vix convexis, ultimo parvo; aperturâ parvâ, rhomboideâ, intus albidâ; labro acuto, valdè sinuoso; columellâ vix incrassatâ et contortâ.

*Hab.*—Lafayette, Ga., Rev. G. White; and Tenn., Dr. Hartman.

*TRYPANOSTOMA SUBULÆFORME.*—Testâ carinatâ, subulari, subtenui, corneâ; spirâ attenuato-conicâ; suturis valdè impressis; anfractibus denis, infernè planulatis, supernè carinatis; aperturâ parvâ, subrhomboideâ, intus albidâ; labro acuto, sinuoso; columellâ paulisper incrassatâ et contortâ.

*Hab.*—Knoxville, Tenn., Prof. Troost and W. Spillman, M. D.

*TRYPANOSTOMA TORTUM.*—Testâ substriatâ, conicâ, corneâ, subcrassâ; spirâ subobtusio-conicâ; suturis valdè impressis; anfractibus septenis, planulatis; aperturâ subgrandi, subrhomboideâ, intus albidâ; labro acuto, vix sinuoso; columellâ valdè incurvatâ, supernè paulisper incrassatâ, infernè incrassatâ et valdè contortâ.

*Hab.*—Uchee Bar, below Columbus, Ga., J. Lewis, M. D.

*TRYPANOSTOMA PALLIDUM.*—Testâ lævi, attenuato-conicâ, subcrassâ, pallido-corneâ; spirâ valdè elevatâ; suturis valdè impressis; anfractibus undenis, convexiusculis, supernè subgeniculatis; aperturâ parviusculâ, subrhomboideâ, intus albâ; labro acuto, sinuoso; columellâ albâ et valdè contortâ.

*Hab.*—Niagara Falls, New York.

*TRYPANOSTOMA PARVUM*.—Testâ lævi, crassiusculâ, conoideâ, corneâ, vittatâ vel evittatâ; spirâ conoideâ; suturis regulariter impressis; anfractibus octonis, planulatis; aperturâ parvâ, rhomboideâ, intus albidâ; labro acuto, paulisper sinuoso; columellâ infernè paulisper incrassatâ et contortâ.

*Hab.*—Knoxville, Pres. Estabrook; and French Broad River, East Tenn., J. Clark.

*TRYPANOSTOMA MODESTUM*.—Testâ lævi, conicâ, subtenui, virido-corneâ; spirâ subelevatâ; suturis linearibus; anfractibus instar septenis, convexiusculis, ultimo subcompresso; aperturâ parviusculâ, subrhomboideâ, intus cæruleo-albâ; labro acuto, sinuoso, expanso; columellâ infernè paulisper incrassatâ et contortâ.

*Hab.*—Chilogita Creek, Blount co., Tenn., J. Clark.

*TRYPANOSTOMA SIMPLEX*.—Testâ lævi, conicâ, subcrassâ, luteo-olivaceâ; spirâ subelevatâ; suturis paulisper impressis; anfractibus octonis, subconvexis, ultimo subconstricto; aperturâ parvâ, constrictâ, rhomboideâ, intus albidâ; labro acuto, sinuoso; columellâ infernè incrassatâ et contortâ.

*Hab.*—Cincinnati, Ohio, T. G. Lea.

*TRYPANOSTOMA MINOR*.—Testâ lævi, obtusè conoideâ, subcrassâ, luteolâ, vittatâ; spirâ obtuso-conoideâ; suturis valdè impressis; anfractibus septenis, convexiusculis, ultimo grandî; aperturâ grandî, subrhomboideâ, intus albâ, interdum vittatâ; labro acuto, sinuoso; columellâ incurvâ, infernè incrassatâ et paulisper contortâ.

*Hab.*—Tennessee, Prof. Troost.

*TRYPANOSTOMA PUMILUM*.—Testâ lævi, nitidâ, conoideâ, subsolidâ, luteo-virescente, bivittatâ; spirâ obtuso-conoideâ; suturis valdè impressis; anfractibus septenis, subconvexis, ultimo pergrandî; aperturâ subgrandî, rhomboideâ, intus albidâ et trivittatâ; labro acuto, sinuoso; columellâ infernè incrassatâ et valdè contortâ.

*Hab.*—Tennessee, Prof. Troost.

*TRYPANOSTOMA BIVITTATUM*.—Testâ lævi, conoideâ, subcrassâ, luteâ, bivittatâ; spirâ obtuso-conoideâ; suturis valdè impressis; anfractibus septenis, subconvexis, ultimo grandî; aperturâ subgrandî, subrhomboideâ, intus albâ, bivittatâ; labro acuto, paulisper sinuoso; columellâ infernè incrassatâ et valdè contortâ.

*Hab.*—Tennessee, Prof. Troost.

*TRYPANOSTOMA VANUXEMII*.—Testâ lævi, conoideâ, flavidâ, vel bivittatâ vel evittatâ; spirâ obtuso-conicâ; suturis impressis; anfractibus senis, convexius-

culis: aperturâ parviusculâ, subrhomboideâ, intus albidâ; labro acuto, sinuoso; columellâ infernè incrassatâ et valdè contortâ.

*Hab.*—South Carolina, Prof. L. Vanuxem.

*TRYPANOSTOMA TRIVITTATUM.*—Testâ lævi, subfusiformi, subtenui, nitidâ, olivaceâ, trivittatâ; spirâ conicâ, mucronatâ, ad apicem carinatâ; suturis linearibus; anfractibus octonis, planulatis, ultimo subgrandi; aperturâ subgrandi, rhomboideâ, intus vittatâ; labro acuto, sinuoso; columellâ paulisper incrassatâ et incurvâ.

*Hab.*—Tombigbee River, Mississippi, W. Spillman, M. D.

*TRYPANOSTOMA TROCHULUS.*—Testâ lævi, trochiformi, valdè tumidâ, luteâ, infrâ unifasciatâ; spirâ valdè obtusâ; suturis impressis; anfractibus senis, supernè planulatis, infernè inflatis; aperturâ grandi, rhomboideâ, albidâ et unifasciatâ; labro acuto, sinuoso; columellâ infernè incrassatâ et valdè contortâ.

*Hab.*—Holston River, Tenn., Prof. G. Troost.

*TRYPANOSTOMA SYCAMORËNSE.*—Testâ plicatâ, conicâ, luteo-corneâ, subcrassâ; spirâ attenuatâ, mucronatâ; suturis impressis; anfractibus undenis, convexiusculis, supernè carinatis, in medio plicatis; aperturâ parviusculâ, rhomboideâ, intus albidâ; labro acuto, sinuoso; columellâ incurvâ, infernè incrassatâ et contortâ.

*Hab.*—Sycamore, Claiborne co., E. Tenn., J. Lewis, M. D.

*TRYPANOSTOMA CHAKASAHAENSE.*—Testâ lævi, conicâ, fusco-virente, subtenui, bivittatâ; spirâ subattenuatâ; suturis valdè impressis; anfractibus instar octonis, convexis, supernè carinatis; aperturâ parvâ, rhombicâ, intus albâ et vittatâ; labro acuto, sinuoso; columellâ incurvâ, infernè incrassatâ et valdè contortâ.

*Hab.*—Chakasaha River, Ala., Wm. Spillman, M. D.

*TRYPANOSTOMA TENNESSEËNSE.*—Testâ lævi, obtusè conicâ, valdè inflatâ, subcrassâ, tenebroso-fuscâ; spirâ brevi, valdè obtusâ; suturis impressis; anfractibus instar denis, convexis; aperturâ magnâ, rhomboideâ, intus tenebrosâ; labro acuto, expanso, inflecto et valdè sinuoso; columellâ internè valdè incrassatâ et contortâ.

*Hab.*—Tenn., Prof. Troost. Lebanon co., Tenn., J. M. Safford.

*TRYPANOSTOMA KNOXENSE.*—Testâ lævi, conicâ, vel ferrugineâ vel vittatâ, subcrassâ; spirâ subelevatâ, mucronatâ; suturis impressis; anfractibus octonis, convexiusculis, supernè carinatis; aperturâ parvâ, intus vel albidâ vel

fuscâ; labro acuto; sinuoso, expanso; columellâ paulisper incrassatâ et contortâ.

*Hab.*—Flat Creek, Knox co., Tenn., Prof. D. Christy.

*TRYPANOSTOMA CANALITIUM.*—Testâ canaliculatâ, conicâ, crassiusculâ, corneâ, obsoletè vittatâ; spirâ regulariter conicâ, subelevatâ, ad apicem bivittatâ; suturis impressis; anfractibus planulatis; inæstar septenis, ultimo canaliculato; aperturâ parvâ, rhomboideâ, intus vel albâ vel salmoniâ et vittatâ; labro acuto et sigmoideo; columellâ contortâ, ad basim recurvâ.

*Hab.*—Yellowleaf Cr., Ala., E. R. Showalter, M. D.

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**Descriptions of Ten new species of UNIONIDÆ of the United States.**

BY ISAAC LEA.

[Read April 22d, 1862.]

*UNIO GRANDIDENS.*—Testâ valdè tuberculatâ, obliquâ, ad umbones inflatâ; valvulis crassissimis, anticè crassioribus; natibus valdè tumidis terminalibusque; epidermide fuscâ; dentibus cardinalibus pergrandibus, percrassis corrugatisque; lateralibus crassis, sublongis, obliquis et valdè corrugatis; margaritâ albâ et iridescente.

*Hab.*—Near Hot Springs, Arkansas, Byrd Powell, M. D.

*UNIO SPECIOSUS.*—Testâ omninè tuberculatâ, ferè granulatâ, quadrangulari, valdè compressâ, ad latere planulatâ, subæquilaterali, posticè subbiangulatâ et emarginatâ, anticè rotundatâ; valvulis subcrassis, anticè paulisper crassioribus; natibus subelevatis, ad apices acuminatis et elegantissimè perundulatis; epidermide viridi-luteâ, substriatâ, vel obsoletè radiatâ vel eradiatâ, submicanti; dentibus cardinalibus subgrandibus, compressis, obliquis, erectis, striatis, in utroque valvulo duplicibus; lateralibus rectis, sublongis obliquisque; margaritâ argenteâ et iridescente.

*Hab.*—Colorado River, near Lagrange, Texas, Prof. Forshey; and Leon Co., Texas, Lieut. E. F. Beale.

*UNIO LEIBII.*—Testâ lævi, quadrâ, subcompressâ, valdè inæquilaterali, posticè emarginatâ, anticè rotundatâ, valvulis subcrassis, anticè crassioribus; natibus subprominentibus, ferè terminalibus; epidermide stramineâ, eradiatâ; dentibus cardinalibus subgrandibus, erectis striatisque; lateralibus curtis, rectis crassisque, in utroque valvulo duplicibus; margaritâ albâ et paulisper iridescente.

*Hab.*—Erie Co., Michigan, G. B. Leib, M. D.

UNIO GERHARDTH.—Testâ subsulcatâ, ellipticâ, subcompressâ, sublenticulari. inæquilaterali, posticè obtusè angulatâ, anticè rotundâ; valvulis crassiusculis, anticè paulisper crassioribus; natibus subelevatis; epidermide stramineâ, radiis capillaribus; dentibus cardinalibus parviusculis, compressis, in utroque valvulo duplicibus; lateralibus sublongis, lamellatis subcurvisque; margaritâ albâ et valdè iridescente.

*Hab.*—Chatanooga, Geo., Alexander Gerhardt.

UNIO MERCERI.—Testâ lævi, latè ellipticâ, compressâ, posticè compressâ et biangulatâ, anticè rotundatâ, valdè inæquilaterali; valvulis subtenuibus; natibus prominulis; epidermide tenebroso-fuscâ, subnitidâ, eradiatâ; dentibus cardinalibus parvis, tuberculatis striatisque; lateralibus prælongis subcurvisque; margaritâ purpureâ et valdè iridescente.

*Hab.*—Lee Co., Geo., Dr. Mercer.

UNIO ARKANSASENSIS.—Testâ lævi, ovato-obliquâ, inæquilaterali, posticè compressâ et obtusè biangulatâ, anticè rotundâ; valvulis crassiusculis, anticè paulisper crassioribus; natibus subelevatis; epidermide flavescente, obsolete radiatâ; dentibus cardinalibus parvis, striatis crenulatisque; lateralibus sublongis, subrectis subcrassisque; margaritâ albâ et valdè iridescente.

*Hab.*—Near Hot Springs, Arkansas, Byrd Powell, M. D.

UNIO BEALEI.—Testâ lævi, ellipticâ, subcompressâ, inæquilaterali, posticè obtusè angulatâ, anticè rotundatâ; valvulis crassiusculis, anticè crassioribus; natibus prominulis; epidermide vel tenebroso-fuscâ vel nigricante, obsolete radiatâ; dentibus cardinalibus parvis, compressis, crenulatis, acuminatis, in utroque valvulo duplicibus; lateralibus prælongis, subcurvis, lamellatis; margaritâ vel albâ vel dilutè salmoniâ et valdè iridescente.

*Hab.*—Leon County, Texas, Lieut. E. F. Beale, U. S. Navy. Rutersville, Texas, Prof. Forshey.

ANODONTA LEONENSIS.—Testâ lævi, ellipticâ, inflatâ, inæquilaterali, posticè subbiangulatâ, anticè obliquè rotundatâ et paulisper sulcatâ; valvulis tenuibus, anticè paulisper crassioribus; natibus prominentibus, tumidis, ad apices nodosis; epidermide fulgidâ, luteo-virente vel fuscescente, vel obsolete radiatâ vel eradiatâ; margaritâ cæruleo-albâ et valdè iridescente.

*Hab.*—Leon County, Texas, Lieut. E. F. Beale, U. S. Navy.

ANODONTA WILLIAMSII.—Testâ lævi, ovato-oblongâ, inflatâ, subæquilaterali, posticè subbiangulatâ, anticè rotundatâ et paulisper sulcatâ; valvulis subtenuibus, anticè ad marginem incrassatis; natibus prominulis, inflatis, ad apices

undulatis; epidermide vel viridi vel luteo-olivâ, fulgidâ, obsoletè radiatâ vel eradiatâ; margaritâ cæruleo-albâ et valdè iridescente.

*Hab.*—Potomac River, at the White House below Mt. Vernon, H. C. Williams.

*ANODONTA TRYONII.*—Testâ lævi, obliquo-ellipticâ, subcompressâ, sublenticulari, valdè inæquilaterali, posticè subbiangulari, anticè rotundatâ; valvulis tenuibus; natibus prominulis, subcompressis, ad apices undulatis; epidermide fulgidâ, vel virente vel fuscescente, obsoletè radiatâ; margaritâ cæruleo-albâ et valdè iridescente.

*Hab.*—Schuylkill River, above Philadelphia, Delaware River, at League Island, G. W. Tryon, jr. Flemington, Con., Prof. Shepard. Westfield, Mass., Dr. Shurtleff; and Potomac near Chain Bridge, above Washington, Prof. Henry.

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Descriptions of two new species of **EXOTIC UNIONES** and one  
**MONOCONDYLÆA.**

BY ISAAC LEA.

[Read April 22d, 1862.]

*UNIO PARAMATTENSIS.*—Testâ crebrè et leviter sulcatâ, ellipticâ, subinflatâ, valdè inæquilaterali, posticè obtusè angulatâ, anticè rotundatâ; valvulis crassiusculis, anticè paulisper crassioribus; natibus prominulis, ad apices radiis undulatis; epidermidè tenebroso-fuscâ, nigricante, eradiatâ; dentibus cardinalibus parvis, valdè compressis, obliquis, valvulæ dextræ duplicibus; lateralibus prælongis, lamellatis subrectisque; margaritâ albâ et valdè iridescente.

*Hab.*—Paramatta River, New South Wales, Smithsonian Institution.

*UNIO PAZII.*—Testâ lævi, obliquâ, anticè inflatâ, valdè inæquilaterali, posticè acuto-angulatâ et attenuatâ, anticè rotundatâ; valvulis crassiusculis, posticè paulisper crassioribus; natibus tumidis, subterminalibus; epidermide olivaceâ, obsoletè radiatâ et transversè latè vittatâ; dentibus cardinalibus longis, lamellatis, valdè obliquis corrugatisque; lateralibus prælongis, obliquis, lamellatis corrugatisque; margaritâ vel albâ vel cæruleâ et valdè iridescente.

*Hab.*—China. Sig. Patricio Maria Paz.

*MONOCONDYLÆA WHEATLEYI.*—Testâ lævi, oblongâ, subcompressâ, valdè inæquilaterali, anticè obliquè rotundatâ, posticè truncatâ; valvulis subcrassis, anticè paulisper crassioribus; natibus parvis, acuminatis, ad apices minutissimè undulatis; epidermide luteâ, nitidâ, eradiatâ; dentibus cardinalibus parvis, erectis, in utroque valvulo uno-tuberculatis; margaritâ albâ et valdè iridescente.

*Hab.*—River Tigris, Assyria, Rev. Mr. Beadle, by C. M. Wheatley.



Description of a New Genus (GONIOBASIS) of the Family MELANIDE and  
eighty-two new Species.

BY ISAAC LEA.

[Read May 27th, 1862.]

Family MELANIDÆ.

Genus GONIOBASIS.\*

Testa vel conica vel fusiformi. Apertura rhomboidea, infernè subangulata. Columella supernè interdum incrassata. Operculum corneum, ad spiram pertinens.†

In my paper on the genus *Trypanostoma*, proposed by me, I mentioned the importance of eliminating as many species as possible from *Melania*, which is so enormously extended as almost to prevent the possibility of finding suitable names for its species. In the Proceedings of the Academy, December, 1861, I stated that Professor Haldeman's genus *Lithasia* formed a very excellent group. In working up a very large number of the family *Melanidæ*, obtained from the Southern and Western States, I have, notwithstanding the divisions which had been made, found myself embarrassed with that form of aperture, which is quite different from the auger-mouthed (*Trypanostoma*) species and the *Lithasia*, to which latter they are most nearly allied. I mean those which usually, though not always, have a slight thickening of the upper part of the columella and no callus below, and which are also without the notch of *Lithasia*, although subangular at base. In this subangular character they differ from *Melania* proper, which are round or loop-like at the base. For this group I propose the name of *Goniobasis*,‡ which will give us for our American *Melanidæ* the following genera, all of them having spiral opercula:

*Melania*,§ Lam. *Anculosa*, Say. *Io*, Lea. *Lithasia*, Hald. *Schizostoma*, Lea. *Strophobasis*, Lea. *Trypanostoma*, Lea. *Goniobasis*, Lea. *Ammicola*, Gould and Hald.

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\* *Tovia*, angle, and *basis*, base.

† This genus may be divided into two groups, one embracing the conical, the other the fusiform species, and these into smooth, plicate, carinate, &c.

‡ Adams's *Elimia* takes in part of this genus.

§ Cuvier describes *Melania* as having long tentacula, the eyes being on the exterior side about the third of the length. The eyes of *Melania Virginica*, Say, are at the base of short tentacula. I very much doubt if we have a single species in the United States which properly belongs to this genus, which Cuvier considered *amarula* as the type and Lamarck *asperata* as the type.

They may be known by

*Melania* having a regular loop-form aperture.

*Anculosa* having a rounded aperture and a callous columella.

*Io* having a greater or less elongate channel or spout at the base.

*Lithasia* having a callus on the columella above and below, and a notch at the base.

*Schizostoma* having a cut in the upper part of the outer lip.

*Strophobasis* having a retrorse callus at base and usually a squarish aperture.

*Trypanostoma* having an expanded outer lip and an auger-shaped aperture.

*Goniobasis* having usually a subrhomboidal aperture, subangular at base and without a channel.

*Ammicola*\* having a round mouth and no callus.

**GONIOBASIS OSCULATA.**—Testâ lævi, pupæformi, subelevatâ, subcrassâ, luteofuscâ, quadrivittatâ; spirâ subelevatâ; suturis valdè et irregulariter impressis; anfractibus septenis, convexiusculis; aperturâ parvâ, constrictâ, subellipticâ, intus albidâ et vittatâ; labro acuto; columellâ albâ, inflectâ, ad basim contortâ et subangulatâ.

*Hab.*—Coosa River, Alabama, U. S. Showalter, M. D.

**GONIOBASIS BRUMBYI.**—Testâ lævi, attenuatâ, subtenui, cinereâ, quadrivittatâ; spirâ attenuatâ, ad apicem carinatâ; suturis valdè impressis; anfractibus instar octonis, convexiusculis; aperturâ parvâ, subrhoimboideâ, intus albidâ et quadrivittatâ; labro acuto; columellâ inflectâ, ad basim obtusè angulatâ.

*Hab.*—Alabama, Prof. Brumby.

**GONIOBASIS GROSVENORII.**—Testâ lævi, subattenuatâ, tenui, corneâ, fulgidâ, evittatâ; spirâ subattenuatâ, mucronatâ, ad apicem carinatâ; suturis regulariter et valdè impressis; anfractibus octonis, convexis; aperturâ parvâ, subrotundâ; intus albidâ; labro acuto, paulisper sinuoso; columellâ inflectâ, tenui et contortâ.

*Hab.*—Fox River, Illinois, H. C. Grosvenor; and Quincy, Ohio, J. Clark.

**GONIOBASIS PARVA.**—Testâ lævi, conicâ, tenui, corneâ, evittatâ; spirâ subelevatâ, mucronatâ; suturis impressis; anfractibus septenis, planulatis; aperturâ parviusculâ, intus albidâ, subrhoimboideâ; labro acuto et sinuoso; columellâ inflectâ et paulisper incrassatâ.

*Hab.*—Georgia, Right Rev. Stephen Elliott.

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\* *Ammicola*, although much like *Paludina*, is more nearly allied to the *Melaniæ*. The operculum is spiral, and therefore very different in this character from *Paludina*.

*GONIOBASIS SPINELLA*.—Testâ lævi, valdè attenuatâ, tenui, tenebroso-olivâ, evittatâ; spirâ valdè elevatâ, mucronatâ; suturis regulariter impressis; anfractibus instar novenis, planulatis; aperturâ parvissimâ, ovatâ, intus albidâ; labro acuto, paulisper sinuoso; columellâ inflectâ et infernè paulisper incrassatâ.

*Hab.*—Sycamore, Claiborne County, Tennessee, J. Lewis, M. D.

*GONIOBASIS ESTABROOKII*.—Testâ lævi, conicâ, subtenui, rufo-cornèâ, evittatâ; spirâ attenuato-conicâ, mucronatâ; suturis impressis; anfractibus denis, convexiusculis; aperturâ parviusculâ, ovatâ, intus albidâ; labro acuto, paulisper sinuoso; columellâ inflectâ.

*Hab.*—Knoxville, Tennessee, Prof. Estabrook.

*GONIOBASIS PRAIRIENSIS*.—Testâ lævi, attenuato-fusiforimi, tenui, olivaceâ, fulgidâ, quadrivittatâ; spirâ elevatâ, mucronatâ; suturis regulariter impressis; anfractibus novenis, planulatis; aperturâ submagnâ, subrhoiboideâ, intus albidâ et quadrivittatâ; labro acuto et sinuoso; columellâ inflectâ et contortâ.

*Hab.*—Big Prairie Creek, Alabama, E. R. Showalter, M. D.

*GONIOBASIS ETOWAHENSIS*.—Testâ lævi, conoideâ, tenui, tenebrosâ, bivittatâ; spirâ subelevatâ; suturis impressis; anfractibus septenis, convexiusculis; aperturâ submagnâ, subrhoiboideâ, intus tenebrosâ et latè bivittatâ; labro acuto et sinuoso; columellâ inflectâ et valdè contortâ.

*Hab.*—Etowah River, Georgia, J. Postell.

*GONIOBASIS DRAYTONII*.—Testâ lævi, conoideâ, crassiusculâ, tenebroso-castaneâ, evittatâ vel obsolete vittatâ; spirâ subelevatâ; suturis valdè impressis; anfractibus instar senis, convexis; aperturâ parvâ, ovatâ, intus tenebroso-fuscâ; labro acuto, paulisper sinuoso; columellâ valdè inflectâ et contortâ.

*Hab.*—Fort George, Oregon, J. Drayton; also at Walla.

*GONIOBASIS TENEBROVITTATA*.—Testâ lævi, elevato-conicâ, subtenui, flavescente vel vittatâ vel evittatâ; spirâ subelevatâ; suturis paulisper impressis; anfractibus planulatis; aperturâ subgrandi, subrhoiboideâ, intus albidâ; labro acuto, paulisper sinuoso; columellâ paulisper inflectâ.

*Hab.*—Coosa River, W. Spillman, M. D.

*GONIOBASIS SPILLMANII*.—Testâ lævi, fusiformi, tenui, virido-cornèâ, fulgidâ, evittatâ; spirâ obtusè conoideâ; suturis linearibus; anfractibus instar senis, planulatis, infrâ suturis subimpressis; aperturâ magnâ, rhoiboideâ, intus

liaphanâ; labro acuto, paulisper sinuoso; columellâ paulisper inflectâ et tenui.

*Hab.*—Tennessee River, W. Spillman, M. D.

GONIOBASIS FLAVA.—Testâ lævi, obtuso-conicâ, subtenui, flavâ, trivittatâ; spirâ obtuso-conicâ; suturis valdè impressis; anfractibus instar senis, convexiusculis; aperturâ parviusculâ, ovatâ, intus albâ et trivittatâ; labro acuto, paulisper sinuoso; columellâ incurvâ, incrassatâ.

*Hab.*—Benton County? Northwest Alabama, G. Hallenbeck.

GONIOBASIS ANTHONYI.—Testâ lævi, obtuso-conicâ, subtenui, micanti, tenebroso-castaneâ, evittatâ; spirâ obtusâ; suturis impressis; anfractibus instar senis, convexiusculis; aperturâ subgrandi, elongato-rhombicâ, intus fusciscente; labro acuto, ad marginem albidâ et paulisper inspissatâ; columellâ incurvâ et valdè contortâ.

*Hab.*—Tennessee, J. G. Anthony.

GONIOBASIS GABBIANA.—Testâ lævi, subfusiformi, subtenui, cornea, evittatâ; spirâ paulisper exertans, mucronatâ; suturis impressis; anfractibus instar octonis, convexis, varicosis; aperturâ parviusculâ, subrhomboideâ, intus albidâ; labro acuto, paulisper sinuoso; columellâ incurvâ et contortâ.

*Hab.*—Tennessee, Prof. G. Troost. Alabama, Prof. Tuomey.

GONIOBASIS BRIDGESIANA.—Testâ lævi, fusiformi, subinflatâ, subtenui, melleâ, evittatâ; spirâ obtusè conicâ, ad apicem carinatâ; suturis linearibus; anfractibus instar septenis, planulatis; aperturâ magnâ, subrhomboideâ, intus albidâ; labro acuto, vix sinuoso; columellâ subinflectâ, infernè et supernè incrassatâ et paulisper contortâ.

*Hab.*—Cahawba River, Alabama, E. R. Showalter, M. D.

GONIOBASIS INTERCEDENS.—Testâ lævi, fusiformi, subtenui, melleâ, fulgidâ, evittatâ; spirâ conoideâ, mucronatâ, ad apicem carinatâ; suturis linearibus; anfractibus octonis, planulatis, varicosis; aperturâ submagnâ, rhomboideâ, intus albidâ; labro acuto, vix sinuoso; columellâ subinflectâ, paulisper incrassatâ, infernè subrectâ.

*Hab.*—Cahawba River, Alabama, E. R. Showalter, M. D.

GONIOBASIS OHIENSIS.—Testâ lævi, conicâ, subtenui, evittatâ; spirâ obtusè conicâ, mucronatâ, ad apicem carinatâ; suturis valdè impressis; anfractibus instar novenis, convexis; aperturâ parvâ, subrotundâ, intus albâ; labro acuto, vix sinuoso; columellâ inflectâ, valdè incrassatâ.

*Hab.*—Yellow Springs, Ohio.

**GONIOBASIS CINEREA.**—Testâ lævi, conoideâ, tenui, cinereâ, fulgidâ; spirâ obtusè conicâ, mucronatâ, ad apicem carinatâ; suturis valdè impressis; anfractibus octonis, convexiusculis; aperturâ submagnâ, subrhomboideâ, intus cæruleo-albâ; labro acuto, paulisper sinuoso; columellâ incurvâ; paulisper incrassatâ et purpurecente.

*Hab.*—South Carolina, Professor L. Vanuxem.

**GONIOBASIS VANUXEMII.**—Testâ lævi, fusiformi, subcrassâ, tenebroso-corneâ; spirâ obtusè conoideâ; suturis impressis; anfractibus septenis, subconvexis; aperturâ magnâ, subrhomboideâ, intus albidâ vel purpureâ; labro acuto, paulisper sinuoso; columellâ incurvâ, supernè et infernè incrassatâ.

*Hab.*—North Fork of the Holston River, Virginia, Prof. L. Vanuxem.

**GONIOBASIS SPARTENBURGENSIS.**—Testâ lævi, fusiformi, subtenui, virido-corneâ, fulgidâ, vittatâ vel evittatâ; spirâ acutè conicâ, ad apicem carinatâ; suturis impressis; anfractibus octonis, planulatis; aperturâ submagnâ, elongato-rhomboideâ, intus albidâ; labro acuto, vix sinuoso; columellâ paulisper incurvâ, infernè incrassatâ.

*Hab.*—Spartenburg District, S. Carolina, Prof. L. Vanuxem. Marietta, Ohio, Dr. Hildreth. Wabash River, Indiana, H. C. Grosvenor.

**GONIOBASIS AURICOMA.**—Testâ lævi, fusiformi, subtenui, melleâ, vittatâ; spirâ valdè obtusâ; suturis linearibus; anfractibus quinis, vix convexis; aperturâ pergrandi, subrhomboideâ, intus flavescente; labro acuto, vix sinuoso; columellâ incurvâ, paulisper incrassatâ.

*Hab.*—Tennessee River, W. Spillman, M. D.

**GONIOBASIS GEORGIANA.**—Testâ lævi, fusiformi, inflatâ, subcrassâ, luteâ, fulgidâ, vittatâ; spirâ valdè obtusâ; suturis impressis; anfractibus quinis, convexis; aperturâ grandî, subrhomboideâ, intus albidâ et vittatâ; labro acuto, recto; columellâ incurvâ, incrassatâ, parum contortâ.

*Hab.*—North Georgia.

**GONIOBASIS VAUXIANA.**—Testâ lævi, fusiformi, subtenui, viridi; spirâ valdè obtusâ; suturis parum impressis; anfractibus quois, supernè planulatis et carinatis; aperturâ pergrandi, lato-rhomboideâ; labro acuto, recto; columellâ parum incurvâ.

*Hab.*—Coosa River, Alabama, Prof. Brumby.

**GONIOBASIS WHITEI.**—Testâ lævi, fusiformi, crassâ, valdè inflatâ, luteo-fuscâ, fulgidâ, trivittatâ; spirâ valdè obtusâ; suturis parum impressis; anfractibus

quinis, supernè planulatis, ultimo ventricoso; aperturâ pergrandi, lato-rhomboidêâ; labro acuto, recto; columellâ incurvâ, incrassatâ et contortâ.

*Hab.*—Georgia, Rev. G. White.

**GONIOBASIS BINNEYIANA.**—Testâ lævi, obtuso-fusiforimi, subtenui, valdè inflatâ, tenebroso-olivâ, obsolete vittatâ; spirâ depressâ; suturis impressis; anfractibus quinis, supernè planulatis, ultimo ventricoso; aperturâ pergrandi, subovatâ, intus tenebrosâ; labro acuto, parum sinuoso; columellâ incrassatâ, ad basim maculatâ.

*Hab.*—Coosa River, Alabama, W. Spillman, M. D.

**GONIOBASIS TUOMEYI.**—Testâ lævi, fusiformi, crassiusculâ, luteo-olivâ, vittatâ vel evittatâ; spirâ obtuso-conicâ, ad apicem minutè plicatâ; suturis impressis; anfractibus instar senis, supernè planulatis, ultimo subventricoso; aperturâ grandi, rhomboidêâ, intus albidâ; labro acuto, parum sinuoso; columellâ incrassatâ, incurvâ et contortâ.

*Hab.*—North Alabama, Prof. M. Tuomey.

**GONIOBASIS FABALIS.**—Testâ lævi, ellipticâ, crassâ, luteâ, quadro-vittatâ; spirâ valdè obtusâ; suturis irregulariter impressis; anfractibus quaternis, supernè convexiusculis, ultimo pergrandi; aperturâ magnâ, subrhomboidêâ, intus albidâ et vittatâ; labro acuto, vix sinuoso; columellâ infernè et supernè incrassatâ.

*Hab.*—Tennessee River, W. Spillman, M. D.

**GONIOBASIS GIBBEROSA.**—Testâ lævi, subfusiformi, crassâ, pallido-castaneâ vel rufo-castaneâ, vittatâ vel evittatâ; spirâ obtusâ; suturis irregulariter impressis; anfractibus gibberosis, supernè convexiusculis, ultimo pergrandi; aperturâ pergrandi, rhomboidêâ, intus albâ; labro acuto, sinuoso; columellâ incurvâ, supernè et infernè incrassatâ.

*Hab.*—Alabama River, E. R. Showalter, M. D.

**GONIOBASIS LYONII.**—Testâ plicatâ, supernè striatâ et ad apicem carinatâ, luteolâ, subtenui, valdè exertâ; spirâ attenuatâ, mucronatâ; suturis irregulariter impressis; anfractibus novenis, convexiusculis; aperturâ parviusculâ, subrhomboidêâ, intus albidâ; labro acuto, sinuoso; columellâ incurvâ, incrassatâ, parum contortâ.

*Hab.*—Grayson County, Kentucky, S. S. Lyon.

**GONIOBASIS PYBASII.**—Testâ plicatâ, valdè exertâ, luteolâ, tenui, vittatâ; spirâ attenuatâ, mucronatâ; suturis impressis; anfractibus septenis, planulatis; aperturâ ovato-rhomboidêâ, intus albidâ et vittatâ; labro acuto, sinuoso; columellâ paulisper incurvâ, parum incrassatâ et contortâ.

*Hab.*—Tuscumbia, Alabama, B. Pybas.

*GONIOBASIS DUTTONII*.—Testâ plicatâ, conoideâ, dilutè rufo-luteâ, crassâ, bivittatâ; spirâ conoideâ; suturis irregulariter impressis; anfractibus instar septenis, subconvexis; aperturâ ovato-rhomboidêâ, intus albâ et lato-vittatâ, labro acuto, sinuoso; columellâ incurvâ, incrassatâ et valdè contortâ.

*Hab.*—Maurey County, Tennessee, T. R. Dutton. Grayson County, Kentucky, S. S. Lyon.

*GONIOBASIS DOOLYENSIS*.—Testâ plicatâ, subcylindraceâ, tenebroso-corneâ vel subsinereâ, tenui, evittatâ; spirâ attenuatâ; suturis irregulariter impressis; anfractibus instar novenis, convexiusculis, aperturâ parvâ, ovato-rhomboidêâ, intus albidâ; labro acuto, sinuoso; columellâ valdè incurvâ, in medio impressâ et valdè contortâ.

*Hab.*—Tennessee, Prof. Troost. Near Vienna, Dooly County, Georgia, in a small stream tributary to Flint River, Rev. G. White.

*GONIOBASIS VIENNAENSIS*.—Testâ plicatâ, subfusiformi, olivaceâ, subtenui, evittatâ; spirâ regulariter conicâ; suturis irregulariter impressis; anfractibus septenis, planulatis; aperturâ subgrandi, rhomboidêâ, intus cæruleo-albâ; labro acuto, sinuoso; columellâ incurvâ, infernè incrassatâ, parum contortâ.

*Hab.*—Near Vienna, Dooly County, Georgia, in a small stream tributary to Flint River, Rev. G. White.

*GONIOBASIS STRENUA*.—Testâ plicatâ, subfusiformi, fusco-olivaceâ, subtenui, evittatâ; spirâ subelevatâ; suturis valdè impressis; anfractibus instar septenis, planulatis; aperturâ subgrandi, ovato-rhomboidêâ, intus albidâ; labro acuto, subsinuoso; columellâ incurvâ et contortâ.

*Hab.*—Benton County? Northwest Alabama, G. Hallenbeck.

*GONIOBASIS SPARUS*.—Testâ plicatâ, subattenuatâ, pallido-flavescente, subcrassâ, evittatâ; spirâ attenuatâ, mucronatâ; suturis irregulariter impressis; anfractibus octonis, convexiusculis; aperturâ submagnâ, ovato-rhomboidêâ, intus albâ; labro acuto, sinuoso; columellâ parum incurvâ, supernè luteâ, infernè albâ, contortâ.

*Hab.*—Tennessee, Dr. Currey and Prof. Lindsley.

*GONIOBASIS DIFFICILIS*.—Testâ plicatâ, subattenuatâ, tenebroso-olivâ vel fusciscente, subtenui, evittatâ; spirâ attenuatâ, mucronatâ; suturis regulariter impressis; anfractibus instar octonis, convexiusculis; aperturâ parviusculâ, ovato-rhomboidêâ, intus albidâ; labro acuto, subsinuoso; columellâ incurvâ, incrassatâ et contortâ.

*Hab.*—Tennessee, Dr. Edgar.

**GONIOBASIS BAIRDIANA.**—Testâ plicatâ, subattenuatâ, tenebroso-fuscâ, subcrassâ, unovittatâ; spirâ subattenuatâ, mucronatâ; suturis impressis; anfractibus octonis, convexiusculis; aperturâ parviusculâ, ovato-rhomboideâ, intus albidâ et unovittatâ; labro acuto, vix sinuoso; columellâ incurvâ, parum incrassatâ et valdè contortâ.

*Hab.*—Columbia River, at Fort George, Oregon, J. Drayton.

**GONIOBASIS INCLINANS.**—Testâ valdè plicatâ, subattenuatâ, tenebroso-fuscâ, subtenui, obsoletè vittatâ; spirâ subattenuatâ, mucronatâ; suturis sulcatis; anfractibus octonis, planulatis, plicis inclinatibus indutis; aperturâ parvâ, rhomboideâ, intus dilutè fuscescente; labro acuto, sinuoso; columellâ valdè incurvâ, fusco-rufescente et valdè contortâ.

*Hab.*—Near Albany, Georgia, Rev. G. White. Etowah, J. Postell. Tuscum-bia, Alabama, B. Pybas.

**GONIOBASIS INDUTA.**—Testâ valdè plicatâ, conicâ, subtenui, politâ, tenebro-sâ, quadrivittatâ; spirâ conoideâ, mucronatâ; suturis valdè impressis; anfractibus octonis, planulatis, plicis erectis indutis; aperturâ parvâ, rhomboideâ, intus albidâ et quadrivittatâ; labro acuto, subsinuoso; columellâ incurvâ et contortâ.

*Hab.*—Near Vienna, Dooly County, Georgia, Rev. G. White.

**GONIOBASIS LINDSLEYI.**—Testâ plicatâ, cylindraceo-conicâ, subtenui, luteo-corneâ, evittatâ; spirâ conoideâ; suturis irregulariter et valdè impressis; anfractibus planulatis, plicis erectis undutis; aperturâ parviusculâ, rhomboideâ, intus cœruleo-albâ; labro acuto, sinuoso; columellâ incurvâ et contortâ.

*Hab.*—Tennessee, Prof. Lindsley and Dr. Edgar.

**GONIOBASIS THORNTONII.**—Testâ rugoso-plicatâ, conoideâ, subtenui, corneâ, evittatâ; spirâ conoideâ; suturis irregulariter et valdè impressis; anfractibus convexiusculis, plicis flexis distantibus indutis; aperturâ submagnâ, rhomboideâ, intus albâ; labro acuto, sinuoso; columellâ subincurvâ, incrassatâ et contortâ.

*Hab.*—Tuscumbia, L. B. Thornton, Esq. Florence, Alabama, Rev. G. White.

**GONIOBASIS INTERVENIENS.**—Testâ plicatâ, conoideâ, subtenui, tenebroso-corneâ, vel fuscâ vel bivittatâ vel evittatâ; spirâ obtusè conoideâ; suturis irregulariter et valdè impressis; anfractibus instar senis, planulatis, plicis paulisper flexis; aperturâ subgrandi, rhomboideâ, intus albâ vel vittatâ vel fuscâ; labro acuto, sinuoso; columellâ incurvâ et parum contortâ.

*Hab.*—North Alabama, Prof. Tuomey.



**GONIOBASIS CONTINENS.**—Testâ plicatâ, conoideâ, subtenui, luteo-corneâ, evittatâ; spirâ regulariter conicâ; suturis impressis; anfractibus instar septenis, convexiusculis, plicis paulisper flexis; aperturâ parviusculâ, ovato-rhomboidêâ, intus cœruleo-albâ; labro acuto, vix sinuoso; columellâ parum incurvâ et contortâ.

*Hab.*—North Alabama, Prof. Tuomey.

**GONIOBASIS CEREÆ.**—Testâ plicatâ, conoideâ, subtenui, cereâ, evittatâ; spirâ conoideâ; suturis impressis; anfractibus senis, subconvexis, plicis minutis; aperturâ grandiusculâ, elongato-rhomboidêâ, intus albidâ; labro acuto, sinuoso; columellâ incurvâ et contortâ.

*Hab.*—Tennessee, Prof. Troost; and Duck Creek, Tennessee, J. Clark.

**GONIOBASIS VIRIDICATA.**—Testâ plicatâ, subattenuatâ, tenui, viridescente, evittatâ; spirâ conoideâ, subattenuatâ; suturis impressis; anfractibus instar septenis, planulatis, plicis subcrebris; aperturâ parvissimâ, rhomboidêâ, intus cœruleo-albâ; labro acuto, parum sinuoso; columellâ incurvâ, supernè flavescente, infernè albidâ, contortâ.

*Hab.*—Grayson County, Kentucky, S. S. Lyon.

**GONIOBASIS LEIDYANA.**—Testâ plicatâ, fusiformi, subtenui, luteo-corneâ, evittatâ; spirâ obtuso-conicâ; suturis linearibus; anfractibus senis, planulatis; aperturâ pergrandi, ovato-rhomboidêâ, intus albidâ; labro acuto, tenui; columellâ incurvâ, ad basim contortâ.

*Hab.*—Benton County, Northwest Alabama, G. Hallenbeck, Esq.

**GONIOBASIS ABBEVILLENSIS.**—Testâ plicatâ, conoideâ, subcrassâ, castaneâ, fulgidâ, evittatâ; spirâ conicâ; suturis linearibus; anfractibus septenis, convexiusculis, ferè planulatis; ad apicem carinatis et striatis; aperturâ grandiusculâ, ovato-rhomboidêâ, intus subochraceâ; labro acuto, vix sinuoso; columellâ incrassatâ et contortâ.

*Hab.*—Abbeville District, S. Carolina, J. P. Barratt, M. D.

**GONIOBASIS AMGENA.**—Testâ plicatâ, subfusiformi, crassâ, dilutè castaneâ, evittatâ; spirâ obtusè conoideâ; suturis irregulariter impressis; anfractibus instar senis, subconvexis, ad apicem striatis; aperturâ grandi, ovato-rhomboidêâ, intus albidâ; labro acuto, parum sinuoso, columellâ incrassatâ, incurvâ et contortâ.

*Hab.*—North Alabama, Prof. Tuomey.

**GONIOBASIS PAUPERCULA.**—Testâ plicatâ, subcylindraceâ, subtenui, castaneâ vel tenebroso-olivâ, evittatâ; spirâ curtiusculâ; suturis impressis; anfractibus

convexiusculis, supernè plicatis, ad apicem striatis; aperturâ parvâ, ovato-rhomboidêâ, intus albidâ; labro acuto, parum sinuoso; columellâ incurvâ et paulisper contortâ.

*Hab.*—North Alabama, Prof. Tuomey.

GONIOBASIS PROLETARIA.—Testâ plicatâ, obtusè conoideâ, subtenui, corneâ, evittatâ; spirâ obtusè conicâ; suturis impressis; anfractibus instar senis, convexiusculis, supernè plicatis; aperturâ grandiusculâ, subrhomboidêâ, intus albidâ; labro acuto, sinuoso; columellâ incurvâ, incrassatâ et contortâ.

*Hab.*—Florence, Alabama, Rev. G. White.

GONIOBASIS INCONSTANS.—Testâ plicatâ, subfusiformi, subtenui, corneâ vel olivaceâ vel tenebroso-fuscâ, vittatâ vel evittatâ; spirâ obtusè conicâ; suturis impressis; anfractibus senis, convexiusculis, supernè plicatis; aperturâ grandiusculâ, subrhomboidêâ, intus albidâ vel dilutè purpureâ vel vittatâ; labro acuto, parum sinuoso; columellâ incurvâ et contortâ.

*Hab.*—Etowah River, J. Postell.

GONIOBASIS MEDIOCRIS.—Testâ plicatâ, subfusiformi, subtenui, cinereâ, fulgidâ, vittatâ; spirâ conoideâ; suturis irregulariter impressis; anfractibus senis, planulatis; aperturâ grandiusculâ, rhomboidêâ, intus albidâ et vittatâ; labro acuto, sinuoso; columellâ incurvâ, incrassatâ et contortâ.

*Hab.*—Tennessee, Dr. Edgar and President Lindsley.

GONIOBASIS CRISPA.—Testâ plicatâ et transversè striatâ, fusiformi, subcrassâ, luteolâ, crispatâ, evittatâ; spirâ obtusâ; suturis irregulariter impressis; anfractibus instar senis, convexiusculis; aperturâ grandi, ovato-rhomboidêâ, intus albidâ; labro acuto, vix sinuoso; columellâ parum incurvâ et contortâ.

*Hab.*—Florence, Alabama, Rev. G. White.

GONIOBASIS ORNATELLA.—Testâ plicatâ, fusiformi, crassiusculâ, luteo-corneâ, vittatâ; spirâ obtuso-conoideâ; suturis irregulariter et valdè impressis; anfractibus instar senis, convexis; aperturâ grandi, ovato-rhomboidêâ, albidâ et obsolete vittatâ; labro acuto, vix sinuoso; columellâ parum incurvâ et contortâ.

*Hab.*—Tennessee, Coleman Sellers.

GONIOBASIS OLIVELLA.—Testâ plicatâ, fusiformi, subcrassâ, olivaceâ, fulgidâ, evittatâ; spirâ obtuso-conoideâ; suturis irregulariter et valdè impressis; anfractibus instar quinis, convexiusculis; aperturâ grandi, rhomboidêâ, albidâ; labro acuto, vix sinuoso; columellâ incurvâ et contortâ.

*Hab.*—Tennessee, Prof. Troost.

*GONIOBASIS PURPURELLA*.—Testâ plicatâ, conoideâ, tenui, purpurescente, fulgidâ, vittatâ vel evittatâ, spirâ conoideâ; suturis impressis; anfractibus instar septenis, planulatis; aperturâ grandiusculâ, rhomboideâ, intus tenebrosâ; labro acuto, vix sinuoso; columellâ incurvâ et contortâ.

*Hab.*—Caney-Fork River, Tennessee, J. Lewis, M. D.

*GONIOBASIS CINERELLA*.—Testâ plicatâ, subfusiformi, tenui, luteo cinereâ, evittatâ; spirâ obtusè conoideâ; suturis irregulariter impressis; anfractibus senis, convexiusculis; aperturâ grandiusculâ, ovato-rhomboideâ, intus albidâ; labro acuto, vix sinuoso; columellâ incurvâ et parum contortâ.

*Hab.*—Tennessee, Coleman Sellers.

*GONIOBASIS CHRISTYI*.—Testâ plicatâ vel striatâ vel granulatâ, fusiformi, subcrassâ, inflatâ, luteo-olivaceâ, vittatâ; spirâ obtusè conoideâ; suturis impressis; anfractibus quinis, convexiusculis; aperturâ pergrandi, ovato-rhomboideâ, intus vittatâ; labro acuto, vix sinuoso; columellâ incrassatâ, parum contortâ.

*Hab.*—Valley River, Cherokee County, N. Carolina, Prof. David Christy.

*GONIOBASIS INSTABILIS*.—Testâ plicatâ vel lævi, fusiformi, crassâ, subinflatâ, vittatâ vel evittatâ, olivaceâ; spirâ conoideâ; suturis impressis; anfractibus instar quinis, convexiusculis; aperturâ grandi, ovato-rhomboideâ, intus vittatâ; labro acuto, vix sinuoso; columellâ incrassatâ, parum incurvâ et contortâ.

*Hab.*—Twenty-one miles north of Murphy and other places in Cherokee County, Georgia, Prof. David Christy.

*GONIOBASIS GERHARDTI*.—Testâ carinatâ, fusiformi, tenui, fulgidâ, luteo-virente, quadrivittatâ; spirâ regulariter conicâ; suturis impressis; anfractibus senis, planulatis, ultimo grandi; aperturâ magnâ, rhomboideâ, intus albidâ et vittatâ; labro acuto, parum sinuoso; columellâ incurvâ, infernè paulisper incrassatâ.

*Hab.*—Chattanooga River, Georgia, Alexander Gerhardt. Coosa River, Alabama, Dr. Spillman.

*GONIOBASIS INFUSCATA*.—Testâ carinatâ, fusiformi, subtenui, fulgidâ, tenebrosâ, nigricante, trivittatâ; spirâ conoideâ; suturis impressis; anfractibus instar senis, supernè planulatis, ultimo grandi; aperturâ submagnâ, rhomboideâ; intus albidâ vel fuscâ, trivittatâ; labro acuto, parum sinuoso; columellâ incurvâ, infernè paulisper incrassatâ.

*Hab.*—Georgia, Rev. G. White. Coosa River, Alabama, Dr. Spillman.

**GONIOBASIS MUTABILIS.**—Testâ carinatâ vel plicatâ vel striatâ, subfusiformi, subcrasâ, luteo-virente, quadrivittatâ vel evittatâ; spirâ obtusè conoideâ; anfractibus senis, planiusculis; aperturâ subgrandi, rhomboideâ, intus albidâ; labro acuto, vix sinuoso; columellâ incurvâ, incrassatâ, parum contortâ.

*Hab.*—Butts County, Ga., Rev. G. White.

**GONIOBASIS CRUDA.**—Testâ carinatâ, subfusiformi, subtenui, fulgidâ, tenebroso-fuscâ, obsoletè vittatâ; spirâ obtusâ; suturis paulisper impressis; anfractibus supernè planulatis, ultimo grandi; aperturâ submagnâ, rhomboideâ, intus tenebrosâ; labro acuto, vix sinuoso; columellâ paulisper incurvâ, vix incrassatâ.

*Hab.*—Tennessee River, Dr. Spillman.

**GONIOBASIS RUBELLA.**—Testâ carinatâ, subulatâ, subtenui, rubicundâ, evittatâ; spirâ attenuatâ; suturis valdè impressis; anfractibus octonis, vix convexis; aperturâ parvissimâ, subrhomboideâ, intus vel albidâ vel rubidâ; labro acuto, sinuoso; columellâ parum incurvâ et contortâ.

*Hab.*—Near Murphy, Cherokee County, N. Carolina, Prof. Christy.

**GONIOBASIS MACELLA.**—Testâ carinatâ, subulatâ, tenui, olivaceâ, evittatâ; spirâ subattenuatâ; suturis valdè impressis; anfractibus septenis, convexiusculis; aperturâ parvissimâ, subrhomboideâ, intus albidâ, ad basim maculatâ; labro acuto, parum sinuoso; columellâ incurvâ et paulisper contortâ.

*Hab.*—Coosa River, Alabama, Prof. Brumby.

**GONIOBASIS RUBIGINOSA.**—Testâ carinatâ, subsubulatâ, subtenui, fulgidâ, rubiginosâ, obsoletè vittatâ; spirâ subattenuatâ; suturis valdè impressis; anfractibus instar senis, convexis; aperturâ parvissimâ, subrhomboideâ, intus dilutè rubiginosâ; obsoletè bivittatâ; labro acuto, sinuoso; columellâ parum incurvâ et contortâ.

*Hab.*—Oregon, W. Newcomb, M. D.

**GONIOBASIS UCHEËNSIS.**—Testâ carinatâ, obtusè conoideâ, subtenui, corneâ, evittatâ; spirâ obtusâ; suturis impressis; anfractibus instar senis, planulatis; aperturâ submagnâ, ovato-rhomboideâ, intus albidâ; labro acuto, parum sinuoso; columellâ incurvâ, paulisper contortâ.

*Hab.*—Little Uchee River, below Columbus, Georgia, G. Hallenbeck, Esq.

**GONIOBASIS INOSCULATA.**—Testâ carinatâ, conoideâ, subtenui, luteo-corneâ, evittatâ; spirâ subelevatâ; suturis impressis; anfractibus instar septenis, convexiusculis; aperturâ submagnâ, rhomboideâ, intus albidâ; labro acuto, sinuoso; columellâ incurvâ, infernè incrassatâ.

*Hab.*—Little Uchee River, below Columbus, Georgia, G. Hallenbeck, Esq.

*GONIOBASIS BARRATTII*.—Testâ carinatâ, subfusiformi, subtenui, virido-corneâ vel rufo-corneâ, obsolete vittatâ vel evittatâ; spirâ obtuso-conoideâ; suturis valdè impressis; anfractibus septenis, convexiusculis, ad apicem plicatis; aperturâ submagnâ, subrhomboideâ, intus albidâ vel obsolete vittatâ; labro acuto, vix sinuoso; columellâ parum contortâ.

*Hab.*—Abbeville District, S. Carolina, J. P. Barratt, M. D.

*GONIOBASIS RUBRICATA*.—Testâ carinatâ, conoideâ, subtenui, rufo-fuscâ, politâ, evittatâ; spirâ subelevatâ; suturis valdè impressis; anfractibus instar septenis, convexis; aperturâ submagnâ, rhomboideâ, intus dilutè rubidâ, labro acuto, vix sinuoso; columellâ incurvâ, parum incrassatâ.

*Hab.*—Tennessee, Prof. Troost.

*GONIOBASIS BENTONIENSIS*.—Testâ carinatâ, plicatâ, striatâ, conoideâ, subtenui, virido-corneâ, evittatâ; spirâ elevatâ, conoideâ; suturis valdè impressis; anfractibus septenis, convexiusculis; aperturâ parviusculâ, ovato-rhomboideâ, intus albidâ; labro acuto, vix sinuoso; columellâ incurvâ, parum contortâ.

*Hab.*—Benton County? North Alabama, G. Hallenbeck, Esq.

*GONIOBASIS NEGATA*.—Testâ striatâ, ellipticâ, subconicâ, crassâ, luteolâ, quadrivittatâ; spirâ obtusè conicâ; suturis valdè et irregulariter impressis; anfractibus senis, convexiusculis, ultimo grandi; aperturâ parviusculâ, ovatâ, intus albidâ et quadrivittatâ; labro acuto, spissato; columellâ inflectâ, incrassatâ, ad basim obtusè angulatâ.

*Hab.*—Coosa River, Alabama, E. R. Showalter, M. D.

*GONIOBASIS ELLIOTTII*.—Testâ obsolete striatâ, subobtusè conoideâ, subcrassâ, vel flavescente vel fuscèscèntè, evittatâ; spirâ subobtusâ; suturis valdè impressis; anfractibus instar senis, convexiusculis; aperturâ magnâ, ovato-rhomboideâ, intus vel albidâ vel fuscâ; labro acuto, parum sinuoso; columellâ paulisper incurvâ, incrassatâ et parum contortâ.

*Hab.*—Fannin County, Georgia, Bishop Elliott. Uchee and Little Uchee Rivers, Alabama, G. Hallenbeck and Dr. Gesner.

*GONIOBASIS FLAVESCENS*.—Testâ striatâ, interdum granulâtâ et plicatâ, subcylindraceâ, flavescèntè, crassâ; spirâ obtusè conoideâ; suturis irregulariter impressis; anfractibus convexiusculis, ultimo pergrandi; aperturâ grandi, subrhomboideâ, intus vittatâ vel albâ; labro acuto, vix sinuoso, columellâ incurvâ, supernè valdè incrassatâ et contortâ.

*Hab.*—Oconee and Tennessee Rivers, Tennessee, Rev. G. White.

*GONIOBASIS HALLENBECKII*.—Testâ tuberculâtâ, infernè transversè striatâ, turritâ, subtenui, luteo-corneâ vel olivaceâ, vittatâ vel evittatâ; spirâ elevato-tur-

ritâ ; suturis valdè impressis ; anfractibus octonis, carinatis, ad peripheriam compresso-tuberculatis ; aperturâ magnâ, ovato-rhomboideâ, intus albidâ ; labro crenulato, sinuoso ; columellâ incurvâ, parum incrassatâ et valdè contortâ.

*Hab.*—Randall's Creek, near Columbus, Georgia, G. Hallenbeck.

*GONIOBASIS CANBYI.*—Testâ tuberculatâ, plicatâ, infernè transversè striatâ, turritâ, tenui, vel fuscâ vel dilutè fuscâ, maculatâ ; spirâ turritâ ; suturis irregulariter impressis ; anfractibus septenis, carinatis, ad peripheriam compresso-tuberculatis ; aperturâ parvâ, rhomboideâ, intus maculatâ ; labro crenulato, sinuoso ; columellâ incurvâ et valdè contortâ.

*Hab.*—Lake Monroe, Florida, Wm. Canby, and Etowah and Tennessee Rivers, Georgia, J. Postell.

*GONIOBASIS COUPERII.*—Testâ tuberculatâ, plicatâ, infernè et supernè striatâ, turritâ, tenui, tenebroso-fuscâ, ad basim vittatâ ; spirâ turritâ ; suturis valdè impressis ; anfractibus septenis, subcarinatis, ad peripheriam et supra compresso-tuberculatis ; aperturâ parvissimâ, subrhomboideâ, intus tenebroso et uno-vittatâ ; labro crenulato, valdè sinuoso ; columellâ incurvâ, contortâ et purpureescente.

*Hab.*—Etowah River, Mr. Couper, by J. Postell.

*GONIOBASIS DOWNIEANA.*—Testâ tuberculatâ, subturritâ, supernè clathratâ et subcarinatâ, infernè transversè striatâ, tenui, dilutè fuscâ ; spirâ conoideâ, clathratâ ; suturis irregulariter impressis ; anfractibus septenis, subcarinatis, ad peripheriam et supra compresso-tuberculatis ; aperturâ submagnâ, ovato-rhomboideâ, intus albidâ ; labro crenulato, sinuoso ; columellâ incurvâ et contortâ.

*Hab.*—Etowah River, J. Postell.

*GONIOBASIS TRYONIANA.*—Testâ granulosâ vel striatâ, subfusiformi, luteo-fuscâ vel tenebroso-fuscâ, crassâ, robustâ, vittatâ, rarè evittatâ, spirâ obtusè conoideâ ; suturis irregulariter impressis ; anfractibus instar senis, ultimo pergrandi ; aperturâ pergrandi, ovato-rhomboideâ, intus valdè vittatâ ; labro subcrenulato, vix sinuoso ; columellâ paulisper incurvâ et vix contortâ.

*Hab.*—Oostenaula, near Rome, Bishop Elliott. Etowah River, Georgia, J. Postell, and Ocoee River and Tennessee River, Rev. G. White.

*GONIOBASIS GRANATA.*—Testâ granulosâ, infernè striatâ, fusiformi, vittatâ, subcrassâ, fulgidâ, inflatâ, olivaceâ vel rubiginosâ ; spirâ depressâ ; suturis irregulariter impressis ; anfractibus instar quinis, planiusculis, ultimo pergrandi ; aperturâ grandi, ovato-rhomboideâ, intus valdè vittatâ ; labro parum crenulato, vix sinuoso ; columellâ incurvâ et contortâ.

*Hab.*—Etowah River, near Canton, Georgia, Bishop Elliott and Rev. G. White.

*GONIOBASIS STEWARDSONIANA*.—Testâ *granulatâ*, transversè *striatâ*, subfusiformi, *crassâ*, *fulgidâ*, *inflatâ*, *viridi* vel *fuscâ*, *evittatâ*; *spirâ* *perobtusâ*; *suturis impressis*; *anfractibus convexiusculis*; *aperturâ pergrandi*, *ovato-rhomboidèâ*, *intus albâ*; *labro acuto*, *subsinoso*; *columellâ incurvâ*, *supernè* et *infernè* *incrassatâ* et *contortâ*.

*Hab.*—Knoxville, Kentucky, B. W. Badd, M. D.

*GONIOBASIS CADUS*.—Testâ *cancellatâ*, *fusiformi*, *subcrassâ*, *inflatâ*, *flavescente*. *evittatâ*; *spirâ* *subobtusâ*; *suturis irregulariter impressis*; *anfractibus quinis*, *convexiusculis*, *supernè* *cancellatis*; *aperturâ pergrandi*, *ovato-rhomboidèâ*, *intus albâ*; *labro acuto*, *parum sinuoso*; *columellâ incurvâ*, *incrassatâ* et *contortâ*.

*Hab.*—Georgia, Major J. Le Conte.

Descriptions of Eleven New Species of MELANIDÆ of the United States

BY ISAAC LEA.

[Read June 3d, 1862.]

*TRYPANOSTOMA HENRYANUM*.—Testâ carinatâ, attenuatâ, mucronatâ, tenui, diaphanâ. pallido-corneâ, evittatâ; spirâ rēgulariter attenuato conicâ; suturis rēgulariter impressis; anfractibus denis, planulatis, infernē medio rēgulariter carinatis et striatis; aperturâ parvâ, subrhoiboideâ, intus albidâ; labro valdē acuto, sinuoso; columellâ incurvâ et valdē contortâ.

*Hab.*—Tennessee? Smithsonian Institution.

*TRYPANOSTOMA ROSTELLATUM*.—Testâ striatâ, attenuatâ, subtenui, corneâ evittatâ; spirâ elevatâ; suturis valdē impressis; anfractibus octonis, convexiusculis; aperturâ parvâ, rhoiboideâ, intus albidâ; labro acuto, valdē sinuoso; columellâ incurvâ et valdē contortâ.

*Hab.*—Florence, Alabama, Rev. G. White.

*TRYPANOSTOMA STRICTUM*.—Testâ carinatâ, subattenuatâ, tenui, diaphanâ, pallido-corneâ, uno-vittatâ; spirâ rēgulariter conicâ; suturis linearibus; anfractibus instar senis, supernē planulatis; aperturâ parviusculâ, rhoiboideâ intus albidâ et uno-vittatâ; labro acuto, paulisper sinuoso; columellâ parum incurvâ et contortâ.

*Hab.*—South Carolina, Prof. L. Vanuxem.

*TRYPANOSTOMA LATIVITTATUM*.—Testâ carinatâ, subattenuatâ, subtenui, fulgidâ, tenebrosâ, late vittatâ; spirâ conoideâ; suturis linearibus; anfractibus instar septenis, supernē planulatis, ad basim luteis; aperturâ parvâ, rhoiboideâ, intus lativittatâ; labro acuto, sinuoso; columellâ incurvâ, infernē incrassatâ.

*Hab.*—Chikasaha River, Alabama, Wm. Spillman, M. D.

*TRYPANOSTOMA CAROLINENSE*.—Testâ lævi, conoideâ, subcrassâ, corneâ; spirâ obtuso-conicâ; suturis impressis; anfractibus septenis, convexiusculis; aperturâ parviusculâ, rhoiboideâ, intus albidâ vel fuscescente; labro acuto, sinuoso; columellâ incurvâ, incrassatâ et contortâ.

*Hab.*—South Carolina, Prof. L. Vanuxem.

*TRYPANOSTOMA LUTEUM*.—Testâ lævi, obtuso-conicâ, subcrassâ, stramineâ, evittatâ, mucronatâ; spirâ obtuso-conicâ; suturis impressis; anfractibus octonis,



convexiusculis; aperturâ parviusculâ, rhombicâ, intus dilutè stramineâ; labro acuto, sinuoso, ad marginem incrassato; columella infectâ, infernè incrassatâ et contortâ.

*Hab.*—South Carolina, Prof. L. Vanuxem.

*TRYPANOSTOMA DIGNUM.*—Paulisper nodosâ, subfusiformi, subcrassâ, melleâ, unifasciatâ; spirâ elevatâ, regulariter conicâ; suturis impressis; anfractibus instar octonis, planulatis, ultimo subgrandi; aperturâ ovato-rhombicâ, intus albidâ vel salmoniâ, univittatâ; labro acuto, sinuoso; columellâ infectâ, contortâ, ad basim obtusè angulatâ.

*Hab.*—Yellowleaf Creek, Shelby Co., Alabama, E. R. Showalter, M. D.

*STREPHOBASIS CARINATA.*—Testâ carinatâ, subfusiformi, inflatâ, subtenui, virente, quadrivittatâ; spirâ obtusâ; suturis valdè impressis; anfractibus senis, planulatis, ad apicem carinatis, ultimo inflato; aperturâ submagnâ, rhomboideâ, intus albidâ et vittatâ; labro acuto, parum sinuoso; columellâ incrassatâ, retrorsâ et valdè contortâ.

*Hab.*—Tennessee River, Wm. Spillman, M. D.

*STREPHOBASIS OLIVARIA.*—Testâ lævi, ellipticâ, crassâ, vittatâ, tenebrosolivâ; spirâ obtuso-conicâ; suturis valdè impressis; anfractibus instar septenis, convexis, ultimo pergrandi; aperturâ subgrandi, rhomboideâ, intus albâ et vittatâ; labro acuto, paulisper sinuoso; columellâ infernè incrassatâ et retrorsum contortâ.

*Hab.*—Knoxville, Tennessee, J. Clark.

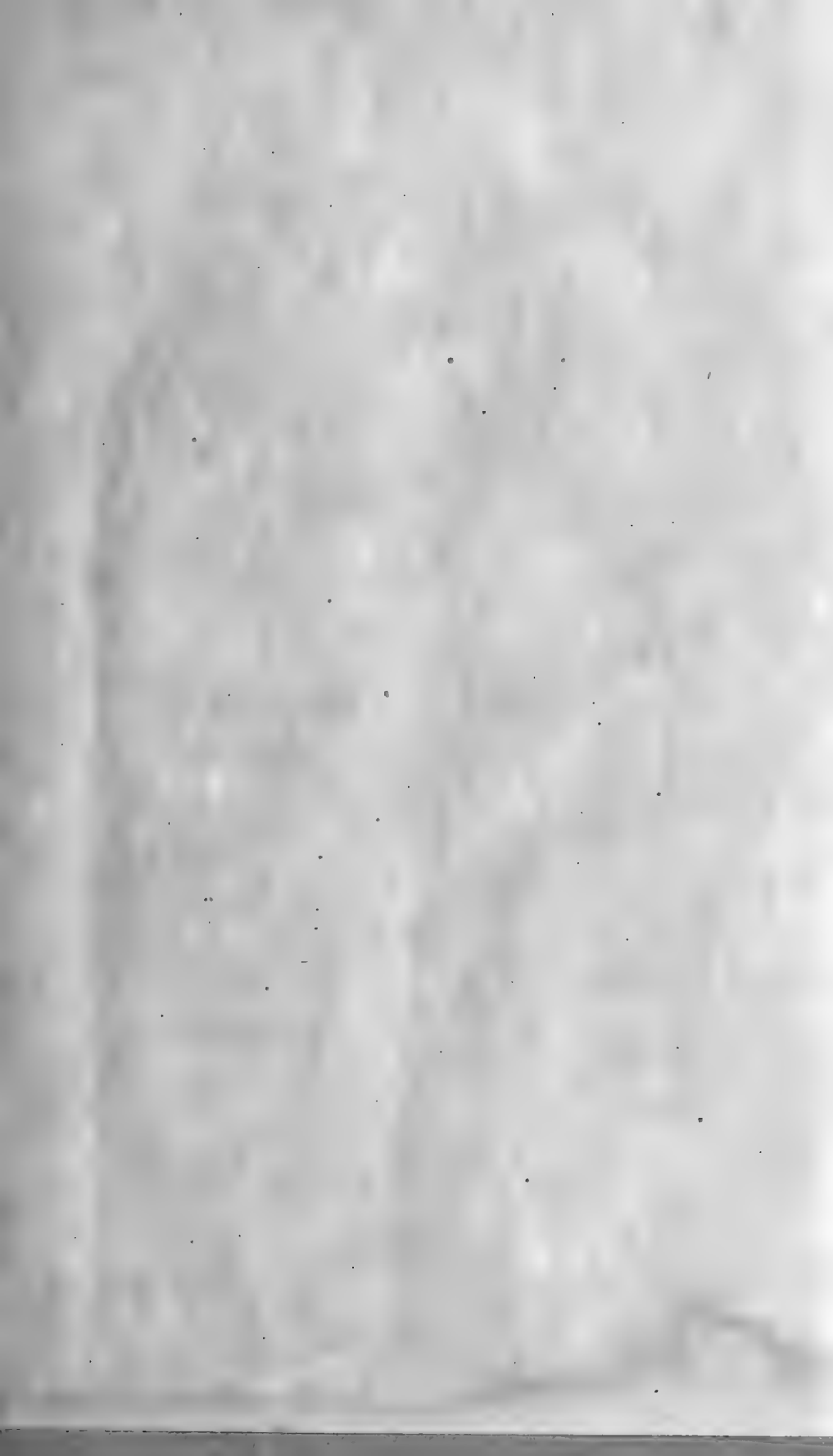
*LITHASIA VITTATA.*—Testâ lævi, cylindraceâ, subtenui, tenebrosocorneâ, quadrivittatâ; spirâ brevi, decollatâ; suturis irregulariter impressis; anfractibus planulatis, ultimo pergrandi; aperturâ grandi, subrhomboideâ, intus albidâ et valdè vittatâ; labro acuto; columellâ incrassatâ, albâ, incurvâ.

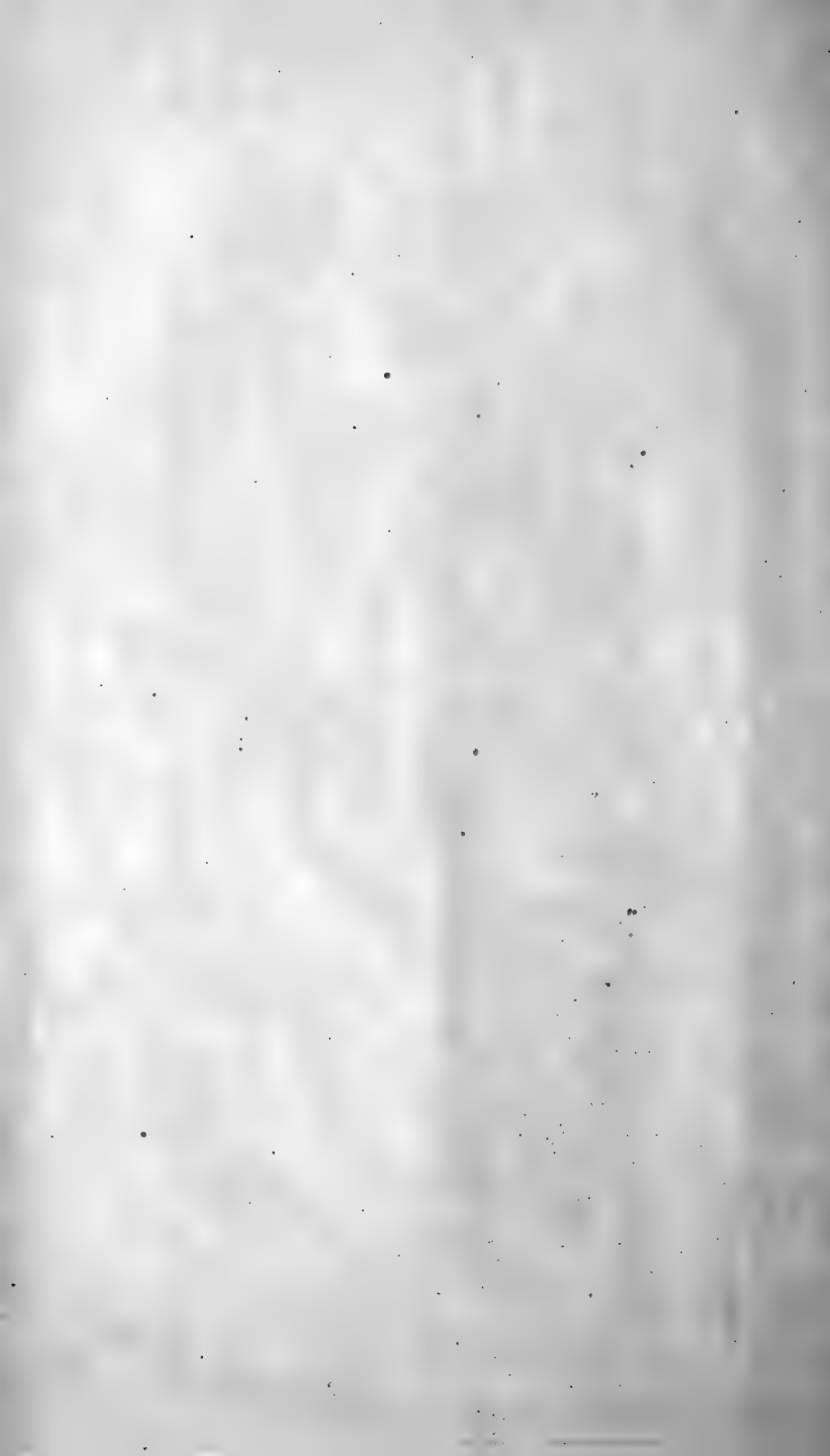
*Hab.*—Coosa and Cahawba Rivers, Alabama, E. R. Showalter, M. D.

*LITHASIA DOWNIEL.*—Testâ parum nodulosâ, subcylindraceâ, castaneâ, spirâ obtusè conoideâ, subelevatâ; suturis irregulariter impressis; anfractibus septenis, planulatis, ultimo subgrandi; aperturâ subgrandi, rhomboideâ, intus vel albidâ vel vittatâ; labro acuto, sinuoso; columellâ albâ et incurvâ.

*Hab.*—Cumberland River, T. C. Downie.









The first part of the book is devoted to a general  
 introduction of the subject, and to a description of the  
 various forms of the disease, and the manner in which  
 it is communicated. The second part contains a  
 detailed account of the symptoms, and the progress  
 of the disease, and the manner in which it is  
 terminated. The third part is devoted to a  
 description of the various remedies which have  
 been employed in the treatment of the disease,  
 and the manner in which they are to be used.  
 The fourth part contains a description of the  
 various forms of the disease, and the manner in  
 which they are communicated. The fifth part  
 contains a description of the various symptoms,  
 and the manner in which they are terminated.  
 The sixth part is devoted to a description of  
 the various remedies which have been employed  
 in the treatment of the disease, and the manner  
 in which they are to be used. The seventh part  
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