



# Families and genera of the Pyramidelloidea (Mollusca: Gastropoda)\*

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**KEY WORDS:** Pyramidelloidea, Gastropoda, Mollusca, Taxonomy.

**ABSTRACT:**

Above the species level, 376 named taxa are generally or often referred to the gastropod superfamily Pyramidelloidea J. E. Gray, 1840. They pose many problems, both taxonomic and nomenclatural. Simple homonyms are identified for 24 taxa. Nine names were introduced on a false assumption of homonymy. Eight are illegal replacements or emendations. Three genus-group names are simply illegal. Two family-group names are based on genus-group names that lack status in zoological nomenclature. A large number of names originated through common errors, such as misspelling. Each challenging name is identified, with bibliographic citations that clarify the status of the name.

Many names are synonyms or probable synonyms. All established synonyms are identified. Clearly questionable synonyms are discussed. Sixteen new synonyms are recommended or suggested: *Chrysalidinae* Saurin, 1958 (= *Menesthinae* Saurin, 1958 = *Pyrgulininae* Saurin, 1959), *Ondina* De Folin, 1870 (= *Glabroindina* Sacco, 1892), *Macrostomia* Sacco, 1892 (= *Plicostomia* Sacco, 1892), *Folinella* Dall & Bartsch, 1904 (= *Costabieta* Laseron, 1956 = *Herevardia* Iredale, 1955), *Megastomia* Monterosato, 1884 (= *Evalynella* Laws, 1940), *Odontostomidea* Pilsbry & Johnson, 1917 (= *Ugarteia* Bartsch, 1917), *Odostomia* Fleming, 1813 (= *Harvella* Dall & Bartsch, 1909), *Otopleura* Fischer, 1885 (= *Aphalista* Laseron, 1959), *Parthenina* Bucquoy, Dautzenberg, & Dollfus, 1883 (= *Tiberiella* Coen, 1933), *Pyrgostylus* Monterosato, 1884 (= *Mormulasta* Laseron, 1959), *Turbonilla* Risso, 1826 (= *Cyrtoturbonilla* Nordsieck, 1972 = *Euturbonilla* Semper, 1861 = *Variturbonilla* Nordsieck, 1972), and *Visma* Dall & Bartsch, 1904 (= *Zonella* Laseron, 1959). Two synonyms that may never have been clearly established are fully identified: *Heida* Dall, 1903 (= *Heida* Dall & Bartsch, 1904) and *Odostomia* Fleming, 1813 (= *Odontostoma* Turton & Kingston, 1830).

The original descriptions of all pyramidelloidean family-group and genus-group taxa are identified. A type designation is recorded and the nature of the designation is identified for all genera except *Taurangia* Laws, 1937a, which lacks content. Type species are designated for *Eupyrulina* Melvill, 1910a (*Pyrgulina dautzenbergi* Melvill, 1910a), *Harvella* Dall & Bartsch, 1909 (*Turbo plicatus* Montagu, 1803), *Polemicella* Saurin, 1959 (*Pyrgulina polemica* Melvill, 1910b), and *Euturbonilla* Semper, 1861 (*Turbonilla variculosa* Semper, 1861). Following established usage, the name *Liomorpha* Pilsbry, 1898, which is a replacement name for *Lia* De Folin, 1873, should be viewed as a *lapsus calami* for *Liamorpha* Pilsbry, 1898. This relationship has not been previously noted.

Within the Pyramidelloidea, problems involving homonymy, synonymy, and errors of interpretation abound at the species-group level. They now make, or have made, 50 type species potential sources of confusion. Each problem involving a type species is identified.

While seven traditional pyramidelloidean genera are too poorly understood to permit definite interpretation, 23 can be excluded from the group, three are illegal, and 316 are assigned to families and subfamilies with varying degrees of confidence. Six families and eleven subfamilies are used in a system of classification that is more convenient and traditional than phyletic. One subfamily, the Tiberiinae Saurin, 1958, is revised by van Aartsen & Corgan. While this expanded and clarified system of family-group taxa seems functional, too few pyramidelloideans have been studied biochemically and anatomically to permit an ideal and broadly based classification.

**RIASSUNTO:**

Alla superfamiglia Pyramidelloidea J. E. Gray, 1840 sono generalmente riferiti 376 taxa nominali a livello sopraspecifico, che pongono numerosi problemi sia tassonomici che nomenclaturali. Sono identificate semplici omonimie per 24 taxa. Nove nomi sono stati introdotti sulla base di una falsa assunzione di omonimia. Otto nomi sono sostituzioni o emendatio illegali. Tre nomi di rango genere sono semplicemente illegali. Due nomi di rango famiglia sono basati su nomi generici che mancano di status in nomenclatura zoologica. Un gran numero di nomi originano attraverso comuni refusi (errori originali di grafia). Sono identificati tutti i nomi problematici con riferimenti bibliografici che ne chiariscono lo status.

Molti nomi risultano sinonimi o probabili sinonimi; tutte le sinonimie accettate sono identificate mentre i sinonimi questionabili sono discussi. Sedici sinonimie sono raccomandate o suggerite: *Chrysalidinae* Saurin, 1958 (= *Menesthinae* Saurin, 1958 = *Pyrgulininae* Saurin, 1959), *Ondina* De Folin, 1870 (= *Glabroindina* Sacco, 1892), *Macrostomia* Sacco, 1892 (= *Plicostomia* Sacco, 1892), *Folinella* Dall & Bartsch, 1904 (= *Costabieta* Laseron, 1956 = *Herevardia* Iredale, 1955), *Megastomia* Monterosato, 1884 (= *Evalynella* Laws, 1940), *Odontostomidea* Pilsbry & Johnson, 1917 (= *Ugarteia* Bartsch, 1917), *Odostomia* Fleming, 1813 (= *Harvella* Dall & Bartsch, 1909), *Otopleura* Fischer, 1885 (= *Aphalista* Laseron, 1959), *Parthenina* Bucquoy, Dautzenberg, & Dollfus, 1883 (= *Tiberiella* Coen, 1933), *Pyrgostylus* Monterosato, 1884 (= *Mormulasta* Laseron, 1959), *Turbonilla* Risso, 1826 (= *Cyrtoturbonilla* Nordsieck, 1972 = *Euturbonilla* Semper, 1861 = *Variturbonilla* Nordsieck, 1972), e *Visma* Dall & Bartsch, 1904 (= *Zonella* Laseron, 1959). Sono identificate due sinonimie che non erano state chiaramente stabilite in passato: *Heida* Dall, 1903 (= *Heida* Dall & Bartsch, 1904) e *Odostomia* Fleming, 1813 (= *Odontostoma* Turton & Kingston, 1830).

Sono identificate le descrizioni originali di tutti i taxa di rango famiglia e di rango genere nei Pyramidelloidea. Si riportano le designazioni di tipi e si identificano tali tipi per tutti i generi eccetto *Taurangia* Laws, 1937a, che manca di un contenuto. Sono designate le specie tipo per *Eupyrulina* Melvill, 1910a (*Pyrgulina dautzenbergi* Melvill, 1910a), *Harvella* Dall & Bartsch, 1909 (*Turbo plicatus* Montagu, 1803), *Polemicella* Saurin, 1959 (*Pyrgulina polemica* Melvill, 1910b), e *Euturbonilla* Semper, 1861 (*Turbonilla variculosa* Semper, 1861). Seguendo l'uso comune, il nome *Liomorpha* Pilsbry, 1898, che sostituisce *Lia* De Folin, 1873, va considerato un *lapsus calami* per *Liamorpha* Pilsbry, 1898: questa relazione non era mai stata notata prima.

Tra i Pyramidelloidea abbondano problemi che coinvolgono omonimia, sinonimia ed errori di interpretazione a livello di specie. Questo ha sinora dato origine ad una potenziale fonte di confusione nel caso di 50 specie tipo. Ciascun problema riguardante una specie tipo è stato quindi identificato.

Laddove sette tradizionali generi pyramidelloidei sono troppo poco conosciuti per permetterne un'interpretazione definitiva, 23 possono essere esclusi dal gruppo, tre sono illegali e 316 sono assegnati a famiglie e sottofamiglie con vario grado di accuratezza. Sei famiglie e undici sottofamiglie sono impiegate in un sistema di classificazione che è più di convenienza e legato alla tradizione, che strettamente filogenetico. Una sottofamiglia, Tiberiinae Saurin, 1958, è revisionata da van Aartsen & Corgan. Anche se questo sistema esteso di taxa di rango famiglia appare funzionale, ancora troppo pochi pyramidelloidei sono stati studiati molecularmente o anatomicamente per permettere una classificazione ideale su basi solide.

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## INTRODUCTION

The superfamily Pyramidelloidea J. E. Gray, 1840 has more than 6000 named species, both recent and fossil. Many genus-group and family-group taxa have been introduced, but phylogeny remains poorly known. Effective study of phylogeny is inhibited because genus-group and family-group nomenclature need clarification. The present paper is a step toward clarity.

In all biological groups, the search for improved classification expanded in recent years through the introduction of new laboratory techniques such as mitochondrial DNA analysis. Greater sophistication in the laboratory adds to a long heritage of study. It broadens the basis for classification. Much effort is currently spent on resolving the phylogeny of pyramidelloideans and other gastropods. Yet, the expansion of taxobases creates difficulties. For example, Collin and Wise (1997) studied one pyramidelloidean species in a laboratory setting. They concluded that earlier studies, that supposedly were done on this same species, may have been based on misidentified specimens. Perhaps those who are expert in the laboratory and in field observations are not always expert at identification. Work on misidentified specimens creates confusion. Collin and Wise (1997) only criticize those who misidentify at the species-group level. Meaningful identifications at the genus-group and family-group levels may be even more important.

While biochemists, ecologists, embryologists, paleontologists, and conventional malacologists study pyramidelloideans, communication between disciplines can be a problem. Each group has unique values, techniques, terms, and publication patterns. Communication is a problem in other ways. Using the global scientific literature of three centuries requires bibliographic and linguistic skills. The volume of literature is immense. The present authors limited the number of bibliographic references by citing standard sources where possible (e.g.: Neave, 1939a; Ponder & Warén, 1988). The complexity of this text is also limited by avoiding nomenclatural innovations: no new names are offered. This study is narrowly focused. It is simply an inventory of existing family-group and genus-group taxa that are generally or often referred to the Pyramidelloidea. It should facilitate future work by clearly documenting taxa introduced through early 1998.

This text reflects the limits of present knowledge. While the family-group assignment of many genera is innovative, it may bear little relationship to more sophisticated classifications that should evolve in the next century. The families and subfamilies used in this text do not form a proven phylogenetic scheme. For example, we believe the Turbonillidae as interpreted here is not monophyletic but we are unable to offer a more meaningful arrangement of these 79 nominal taxa.

In the modern fauna the diversity of pyramidelloideans is both great and challenging. That is true of fossil faunas as well but the fossil record is less studied and less clear. Yochelson and Saunders (1967) question all Palaeozoic records of a group they called the Pyramidellidae. Modern studies, such as Erwin (1988), generally question the placement of pyramidellid-like Paleozoic taxa. We agree that there are no undoubted pyramidelloideans known from the Paleozoic.

For decades, students of Mesozoic faunas have recognized distinctive pyramidelloideans from Cretaceous strata. We agree with their interpretation. While there are many reports of pyramidelloideans from the oldest Mesozoic Period, the Triassic, we evaluated genera that are primarily Triassic and excluded them from this list. We did not try to define the complete geologic and geographic range of any genus. The superfamily Pyramidelloidea is globally distributed in modern marine faunas and is present in the Jurassic.

Our interpretation of the earliest fossil record may be blemished, but we believe the assessment of late Mesozoic, Cenozoic, and Recent taxa is correct and as complete as possible. The status of a few genera is uncertain, as indicated in the listing. Genera that have previously been included in the Pyramidelloidea but are here excluded are listed separately. At least two dozen additional genus-group taxa have been placed in, or compared with, the "Pyramidellidae." They were never widely discussed or widely accepted as members of the group. This text does not identify all taxa that anyone ever considered to be pyramidelloidean. For many taxa that once were viewed as pyramidellid-like, Vaught (1989) offers a reasonable interpretation.

## THE LIST

To control length, this text uses four symbols: M= monotypy, OD = original designation, SD = subsequent designation, and TS = type species.

### PYRAMIDELLOIDEA

Author J. E. Gray, 1840

For documentation see PYRAMIDELLIDAE, below.

### AMATHINIDAE

Author: Ponder, 1987

Type: *Amathina* J. E. Gray, 1842

**AMATHINA** J. E. Gray, 1842. TS: *Patella tricarinata* Linné, 1767 (SD: J. E. Gray, 1847).

**AMATHINOIDES** Sacco, 1896. TS: *Nerita sulcosa* Brocchi, 1814 (OD).

**CARINORBIS** Conrad, 1862. TS: *Delphinula lyra* Conrad, 1833 (OD). = ? **CLATHRELLA** Récluz, 1864. See Campbell (1993).

**CLATHRELLA** Récluz, 1864. TS: *Nerita costata* Brocchi, 1814 not Gmelin, 1791 [= *Fossarus clathratus* Philippi, 1844] (M).

**CYCLOTHYCA** Stearns, 1891. TS: *C. corrugata* Stearns, 1891 (OD). See Ponder (1987: 31).

**ISAPIS** H. & A. Adams, 1854 not Doubleday, 1847 (fide Neave, 1939a). TS: *Narica ? anomala* C. B. Adams, 1850 (OD). Renamed **ISELICA** Dall, 1918.

**ISELICA** Dall, 1918. Nom. nov. pro **ISAPIS** H. & A. Adams, 1854 not Doubleday, 1847 (fide Neave, 1939a). TS: *Narica ? anomala* C. B. Adams, 1850 (OD).

**LEUCOTINA** A. Adams, 1860b. TS: *L. nipponensis* A. Adams, 1860b (M). See Hori & Tsuchida (1995).

**PHASIANEMA** Wood, 1842. TS: *P. sulcata* Wood, 1842 (M). The type species is not equal to *Nerita costatum* Brocchi, 1814.

AMATHINIDAE?

**FALUNIELLA** Cossmann, 1921. TS: *Leucotina* (F.) *falunica* Cossmann, 1921 (OD). Cossmann erroneously attributed the type species to DeMorgan. See Glibert (1949: 181).

**PLICIFER** H. Adams, 1868. TS: *P. nevilli* H. Adams, 1868 (M). See Warén (1984).

ANISOCYCLIDAE

Author: Van Aartsen, 1995

Type: *Anisocycla* Monterosato, 1880

= EBALIDAE

Author: Warén, 1994

Type: **EBALA** auct. as of J. E. Gray, 1847.

**ACICULINA** Deshayes, 1861 not A. Adams, 1853 (fide Neave, 1939a). TS: *A. scalarina* Deshayes, 1861 (by Subsequent Monotypy). See Gougerot & Feki (1980: 89).

**ANISOCYCLA** Monterosato, 1880. Nom. nov. pro **ACICULINA** Deshayes, 1861 not A. Adams, 1853 (fide Neave, 1939a). TS: *A. scalarina* Deshayes, 1861 (By Subsequent Monotypy). See Gougerot & Feki (1980: 89) and van Aartsen (1995: 67).

**BAUDONIA** Bayan, 1873 not Mabilie, 1868 (fide Neave, 1939a). Nom. nov. pro **RHAPHIUM** Bayan, 1873, not Meigen, 1803 (fide Neave, 1940b). TS: *A. scalarina* Deshayes, 1861 (by Subsequent Monotypy). See **ACICULINA** Deshayes, 1861.

**BERMUDACLIS** Bartsch, 1947. TS: *Aclis bermudensis* Dall & Bartsch, 1911 (OD). Type originally cited as *A. bermudensis* Bartsch.

**CHESAPEAKELLA** Campbell, 1993. TS: *Odostomia* (C.) *sigma* Campbell, 1993 not *O. sigma* Hedley, 1907 (OD).

**EBALA** auct. as of J. E. Gray, 1847. TS: *Turbo nitidissimus* Montagu, 1803 (SD: A. Adams, 1860e) [= **ANISOCYCLA** Monterosato, 1880]. See van Aartsen (1995).

**EBALINA** Thiele, 1929. TS: *Aclis monilirata* De Folin in De Folin & Périer, 1873 (OD). See van Aartsen & Corgan (1996c).

**HENRYA** Bartsch, 1947. TS: *H. henryi* Bartsch, 1947 (OD).

**RHAPHIUM** Fischer, 1885. Err. typ. pro **RHAPHIUM** Bayan, 1873.

**RHAPHIUM** Bayan, 1873 not Meigen, 1803 (fide Neave, 1940b). Nom. nov. pro **ACICULINA** Deshayes, 1861 not A. Adams, 1853 (fide Neave, 1939a). TS: *A. scalarina* Deshayes, 1861 (by Subsequent Monotypy). See **ACICULINA** Deshayes, 1861. Renamed **BAUDONIA** Bayan, 1873.

ODOSTOMIIDAE

Author: Pelseener, 1928

(fide Ponder & Warén, 1988)

Type: *Odostomia* Fleming, 1813

Originally as **ODOSTOMINAE** (fide Ponder & Warén, 1988)

ODOSTOMIINAE

As above

= **PTYCHOSTOMINAE** Locard, 1886 (Locard's spelling)

(Type: *Ptychostomon* Locard, 1886)

**AARTSENIA** Warén, 1991. Nom. nov. pro **AMAURA** Möller, 1842 not Geyer in Huebner, 1837 (fide Neave, 1939a). TS: *Amaura candida* Möller, 1842 (M).

**AMAURA** Möller, 1842 not Geyer in Huebner, 1837 (fide Neave, 1939a). TS: *A. candida* Möller, 1842 (M). Renamed **AARTSENIA** Warén, 1991.

**AMOURA** J. E. Gray, 1847. Err. typ. pro **AMAURA** Möller, 1842.

**AURICULINA** J. E. Gray, 1847 not Grateloup, 1838 (fide Neave, 1939a). TS: *Odostomia obliqua* Alder, 1844 (M). = **ONDINA** De Folin, 1870 (fide van Aartsen, 1984: 134).

**AURISTOMIA** Monterosato, 1884. TS: *Odostomia erjaveciana* Brusina, 1869 (SD: Crosse, 1885).

**BRACHYSTOMIA** Monterosato, 1884. TS: *Odostomia rissoides* Hanley, 1844 (SD: Crosse, 1885).

**COLPOSTOMIA** Cossmann, 1921. TS: *Odontostomia lamberti* Cossmann, 1893a (OD).

**CREMULA** Iredale, 1915. Nom. nov. pro **LIOSTOMIA** G. O. Sars, 1878 not **LEIOSTOMA** Swainson, 1840 (fide Neave, 1939b). Iredale replaced a name that was not a homonym. Superfluous synonym of **LIOSTOMIA** G. O. Sars.

**CRENATODOSTOMIA** Nomura, 1937. TS: *Odostomia dilecta* Nomura, 1937 (OD).

**CYCLODONTOSTOMIA** Cossmann 1921. Unjustified emendation of **CYCLODOSTOMIA** Sacco, 1892.

**CYCLODOSTOMIA** Sacco, 1892. TS: *Odontostomia* (C.) *mutinensis* Sacco, 1892 not *O. (Macrodostomia) mutinensis* Sacco, 1892 (SD: Verrill & Bush, 1900). Type species renamed *Odostomia* (C.) *italiana* Corgan & van Aartsen (1998a). See van Aartsen & Corgan (1999).

**DOLIELLA** Monterosato, 1880. TS: *Odostomia nitens* Jeffreys, 1870 (OD).

**EULIMASTOMA** Bartsch, 1916. TS: *Odostomia (Scalenostoma) dotella* Dall & Bartsch, 1909 (OD). See Corgan (1971).

**EULIMASTOMA** Pilsbry & Johnson, 1917. TS: *Odostomia* (E.) *pyrgulopsis* Pilsbry & Johnson, 1917 (SD: Wenz, 1940).

**EUSTOMIA** Cossmann, 1921. TS: *Odontostomia pseudoactaeon* Cossmann, 1921 (OD).

**EVALEA** A. Adams, 1860d. TS: *Odostomia* (E.) *elegans* A. Adams, 1860d (SD: Verrill & Bush, 1900). See van Aartsen & Menkhorst (1996: 55, fig. 11).

**EVELYNELLA** Laws, 1940. TS: *E. venustus* Laws, 1940 (OD). = **MEGASTOMIA** Monterosato, 1884. (This work).

**GLABRONDINA** Sacco, 1892. TS: *Odontostomia (Ondina?) bugellensis* Sacco, 1892 (OD). = **ONDINA** De Folin, 1870. (This work)

**GONIODOSTOMIA** Pilsbry & Johnson, 1917. TS: *Odostomia* (G.) *superans* Pilsbry & Johnson, 1917 (OD). = **EULIMASTOMA** Bartsch, 1916. See Corgan (1972b: 25).

**GUMINA** Finlay, 1928. TS: *Odostomia dolichostoma* Suter, 1908 (M).

**HARVELLA** Dall & Bartsch, 1909. TS: Here selected, *Turbo plicatus* Montagu, 1803. This name was given as a synonym of **ODOSTOMIA** Fleming, 1813 by Dall & Bartsch (1909: 188). The synonymy was not discussed. They attributed the name to H. & A. Adams, 1863. The only 19th century **HARVELLA** is **HARVELLA** Gray, 1863, a pelecypod (fide Neave, 1939b). = **ODOSTOMIA** Fleming, 1813 (This work).

**HEIDA** Dall, 1903. TS: *Odontostomia (Syrnola) attenuata* Dall,



- 1892, not *Odostomia attenuata* Jeffreys, 1884 (OD).
- HEIDA** Dall & Bartsch, 1904. TS: *Odostomia (Syrnola) caloosaensis* Dall, 1892 (OD). = **HEIDA** Dall, 1903. (This work).
- JORDANIELLA** Chaster, 1898. TS: *Turbo nivosa* Montagu, 1803. (SD: Chaster, 1901).
- JORDANULA** Chaster, 1901. Nom. nov. pro **JORDANIELLA** Chaster, 1898 not **JORDANELLA** Goode and Bean, 1879 (fide Neave, 1939b). Chaster replaced a name that was not a homonym. Superfluous synonym of **JORDANIELLA** Chaster, 1898.
- KUNOPIA** Laseron, 1959. TS: *Odostomia sigma* Hedley, 1907 (OD).
- LIOSTOMIA** G. O. Sars, 1878. TS: *Turbonilla clavula* Lovén, 1846 (SD: Monterosato, 1884). Renamed **CREMULA** Iredale, 1915. Dall and Bartsch (e.g.: 1904) give the type as *Ryssoella ? eburnea* Stimpson. This error had little influence.
- MACRODONTOSTOMIA** Cossmann, 1921. Unjustified emendation of **MACRODOSTOMIA** Sacco, 1892.
- MACRODOSTOMIA** Sacco, 1892. TS: *Odontostomia (M.) bismichaelis* Sacco, 1892 [= *Odostomia michaelis* Brugnone, 1876 not Brugnone, 1873] (SD: Cossmann & Peyrot, 1917).
- MARGINODOSTOMIA** Nomura, 1936. TS: *Odostomia suturamarginata* Nomura, 1936 (OD). Saurin (1958: 64) suggested a synonymy with **CYCLODOSTOMIA** Cossmann, 1921. Cossmann used **CYCLODONTOSTOMIA** Cossmann 1921. The relationship is complex. See van Aartsen & Corgan (1999).
- MEGASTOMIA** Monterosato, 1884. TS: *Odostomia conspicua* Alder, 1850 (M). Renamed **STOMEGA** Dall & Bartsch, 1904.
- MONOPTAXIS** Clark In Jeffreys, 1867. TS: *Turbo plicatus* Montagu, 1803. This name was introduced as a synonym of, and replacement for, **ODOSTOMIA** Fleming, 1813. Thus its has the same type, following International Trust For Zoological Nomenclature (1985, Article 67[h]). Also see Iredale (1915: 338).
- NESIODOSTOMIA** Pilsbry, 1918. TS: *Odostomia (N.) prima* Pilsbry, 1918 not *Odontostomia prima* Boettger, 1907 (OD). The type species is renamed *N. montforti* Corgan (1972b: 25).
- NISOSTOMIA** Cossmann, 1921. TS: *Odontostomia nisoides* Cossmann, 1888 not *Odostomia nisoides* Brugnone, 1873 (OD). The type species is renamed *Evalea (N.) cossmanniana* Le Renard, 1994.
- NOEMIA** De Folin, 1870 not Pascoe, 1857 (fide Neave, 1940a). TS: *N. valida* De Folin in De Folin & Périer, 1872 [= *Odostomia dolioliformis* Jeffreys, 1848]. See van Aartsen (1984: 136). Renamed **NOEMIAMEA** De Folin in Hoyle, 1886.
- NOEMIAMEA** De Folin in Hoyle, 1886. Nom. nov. pro **NOEMIA** De Folin, 1870 not Pascoe, 1857 (fide Neave, 1940a). TS: *Noemia valida* De Folin in De Folin & Périer, 1872 [= *Odostomia dolioliformis* Jeffreys, 1848]. See van Aartsen (1984: 136).
- OBEX** Laws, 1940 not Iredale, 1925 (fide Neave, 1940a). TS: *Odostomia denselirata* Suter, 1908 (OD). Renamed **OBEXOMIA** Laws, 1941.
- OBEXOMIA** Laws, 1941. Nom. nov. pro **OBEX** Laws, 1940 not Iredale, 1925 (fide Neave, 1940a). TS: *Odostomia denselirata* Suter, 1908 (OD).
- ODA** Monterosato in Chaster, 1901. TS: *Odostomia dolioliformis* Jeffreys, 1848 (OD). = **NOEMIAMEA** De Folin in Hoyle, 1886 (same type).
- ODETTA** De Folin, 1870. TS: *O. sulcata* De Folin in De Folin & Périer, 1870 (M). See van Aartsen (1984: 134, 135).
- ODONTOSTOMA** Turton & Kingston, 1830. TS: *Turbo unidentata* Montagu, 1803 (M). = **ODOSTOMIA** Fleming, 1813. (This work).
- ODONTOSTOMIA** Jeffreys, 1839. Unjustified emendation of **ODOSTOMIA** Fleming, 1813.
- ODONTOSTOMIA** Philippi, 1849. Unjustified emendation of **ODOSTOMIA** Fleming, 1813.
- ODOSTOMIA** Fleming, 1813. TS: *Turbo plicatus* Montagu, 1803 (SD: J. E. Gray, 1847). See van Aartsen (1987a)
- ONDINA** De Folin, 1870. TS: *O. semiornata* De Folin in De Folin & Périer, 1870 = *Rissoa warreni* Thompson, 1845. (OD). See van Aartsen (1984:134 and 1987a).
- PARODOSTOMIA** Laseron, 1959. TS: *Odostomia compta* Brazier, 1877 (OD). = **EULIMASTOMA** Bartsch, 1916 (See Corgan, 1971).
- PLICOSTOMIA** Sacco, 1892. TS: *Odontostomia (Macrodotostomia) dertomagna* Sacco, 1892 (M). = **MACRODOSTOMIA** Sacco, 1892. (This work).
- PTYCHOSTOMON** Locard, 1886. TS: *Turbo plicatus* Montagu, 1803. Nom. nov. pro **ODONTOSTOMIA** (emend.) auct. not d'Orbigny, 1842. D'Orbigny's name is **ODONTOSTOMA** (not **ODONTOSTOMA** Turton & Kingston, 1830 ). = **ODOSTOMIA** Fleming, 1813. See **ODONTOSTOMA** d'Orbigny, 1842 under Excluded Genera, below. Locard dismissed **ODOSTOMIA** Fleming, "1819" as a barbarism. This is a superfluous replacement name. Thus its has the same type as **ODOSTOMIA** Fleming, following International Trust For Zoological Nomenclature (1985, Article 67[h]).
- PYRAMISTOMIA** Cossmann, 1921. TS: *Odostomia deubeli* Boettger, 1901 (M).
- SINUATODOSTOMIA** Nomura, 1937. TS: *Odostomia sinuosa* Nomura, 1937 not Jeffreys, 1884 (OD). Type species renamed *S. nomurai* van Aartsen & Corgan, 1996b.
- SINUSTOMIA** Cossmann, 1921. TS: *Odostomia tortilis* Deshayes, 1861 (OD).
- STOMATOMEGA** Cossmann, 1921. Unjustified emendation of **STOMEGA** Dall & Bartsch, 1904.
- STOMEGA** Dall & Bartsch, 1904. Nom. nov. pro **MEGASTOMIA** Monterosato, 1884 not **MEGASTOMA** Swainson, 1837 (fide Neave, 1940b). Dall & Bartsch replaced a name that was not a homonym. Superfluous synonym of **MEGASTOMIA** Monterosato, 1884.
- STRIODOSTOMIA** Laws, 1940. TS: *S. orewa* Laws, 1940 (OD).
- TELLODA** Hertlein & Strong, 1951. TS: *Odostomia (Scalenostomia) dotella* Dall & Bartsch, 1909 (OD). = **EULIMASTOMA** Bartsch, 1916 (same type). See Corgan (1971).
- TURRIODOSTOMIA** Habe, 1961. TS: *Odostomia (T.) nakayamai* Habe, 1961 (OD).
- TURRITODOSTOMIA** Sacco, 1892. TS: *Turbo plicatus* Montagu, 1803 (SD: Bucquoy, Dautzenberg, & Dollfus, 1898). = **ODOSTOMIA** Fleming, 1813 (fide Bucquoy, Dautzenberg, &



Dollfus, 1898: 767; fide Dall & Bartsch, 1909: 131). Same type.

**TURRITOSTOMIA** Dall & Bartsch, 1909. Err. typ. pro **TURRITODOSTOMIA** Sacco, 1892.

**TURRITOSTOMIA** Suter, 1913. Err. typ. pro **TURRITODOSTOMIA** Sacco, 1892.

**VILIA** Dall & Bartsch, 1904. TS: *Odostomia* (*V.*) *pilsbryi* Dall & Bartsch, 1904 (OD). The type specimen of the type species is unillustrated, making this taxon hard to interpret. The type was examined by Corgan.

**VOLUTAXIELLA** Strebel, 1908. TS: *V. translucens* Strebel, 1908 (OD).

**ZASTOMA** Iredale, 1915. Nom. nov. pro **BRACHYSTOMIA** Monterosato, 1884 not **BRACHYSTOMA** Meigen, 1822 (fide Neave, 1939a). Iredale replaced a name that was not a homonym. Superfluous synonym of **BRACHYSTOMIA** Monterosato, 1884.

#### ODOSTOMIINAE?

**ANGUSTISPIRA** Pelseneer, 1912. TS: *A. spengeli* Pelseneer, 1912 (M).

**MYXA** Hedley, 1903. TS: *M. exesa* Hedley, 1903 (OD).

**ODOSTOMIDEA** Pilsbry & Johnson, 1917 (April 24). TS: *Odostomia* (*O.*) *bartschiana* Pilsbry & Johnson, 1917. (M).

**PSEUDORISSOINA** Tate & May, 1900. TS: *Stylifer tasmanica* Tenison-Woods, 1877 (M).

**UGARTEA** Bartsch, 1917 (May 26). TS: *Turbonilla* (*U.*) *juani* Bartsch, 1917 (OD). = ? **ODOSTOMIDEA** Pilsbry & Johnson, 1917. (This work).

#### CHRYSALLIDINAE

Author: Saurin, 1958

Type: *Chrysallida* Carpenter 1856

= **CHRYSALLIDINAE** Nordsieck, 1972 (Same type)

See Corgan & van Aartsen (1998b). Includes the **MENESTHINAE** Saurin, 1958 (Type: *Menestho* Möller, 1842) and the **PYRGULININAE** Saurin, 1959 (Type: *Pyrgulina* A. Adams, 1863b).

**ACTAEOPYRAMIS** Fischer, 1885. Nom. nov. pro **MONOPTYGMA** J. E. Gray, 1847. Err. typ. pro **MONOPTYGMA** not **MONOPTYGMA** Lea, 1833. TS: *Monotygya striata* J. E. Gray, 1847. This is a superfluous replacement name. Thus its has the same type as **MONOPTYGMA** J. E. Gray, 1847, following International Trust For Zoological Nomenclature (1985, Article 67[h]). See van Aartsen (1986: 183).

**ACTAEOPYRAMUS** Vaught, 1989. Err. typ. pro **ACTAEOPYRAMIS** Fischer, 1885.

**ACTEOPYRAMIS** Brusina, 1896. Err. typ. pro **ACTAEOPYRAMIS** Fischer, 1885 (fide Neave, 1939a).

**AMOURA** De Folin in De Folin & Périer, 1873 not J. E. Gray, 1847. TS: *A. anguliferens* De Folin in De Folin & Périer, 1873 (M). = **FOLINELLA** Dall & Bartsch, 1904. See van Aartsen (1984: 136).

**BABELIS** Melvill, 1910a. Err. typ. pro **BABELLA** Dall & Bartsch, 1906.

**BABELLA** Dall & Bartsch, 1906. TS: *Turbonilla* (*B.*) *caelator* Dall & Bartsch, 1906 [= *Parthenia caelata* A. Adams, 1863b not

*Turbonilla caelata* Gould, 1861] (OD).

**BARTRUMELLA** Laws, 1940. TS: *B. kaawaensis* Laws, 1940 (OD).

**BESLA** Dall & Bartsch, 1904. TS: *Odostomia* (*Chrysallida*) *convexa* Carpenter, 1857 (OD).

**BOONEA** Robertson, 1978. TS: *Jaminia seminuda* C. B. Adams, 1839 (OD).

**BURKILLA** Iredale, 1915. Nom. nov. pro **TRAGULA** Monterosato, 1884 not **TRAGULUS** Brisson, 1762 (fide Neave, 1939a). Iredale replaced a name that was not a homonym. Superfluous synonym of **TRAGULA** Monterosato.

**CHRYSALLIDA** Carpenter, 1856. TS: *Chemnitzia communis* C. B. Adams, 1852 (M). Palmer (1958) discusses a misinterpretation of the type species by Dall & Bartsch (1909).

**COSTABIETA** Laseron, 1956. TS: *C. paucina* Laseron, 1956 [= *Rissoina horrida* Garrett, 1873] (OD). See Ponder (1985: 108). = **FOLINELLA** Dall & Bartsch, 1904. (This work).

**EGILA** Dall & Bartsch, 1904. TS: *Odostomia* (*Parthenia*) *lacunata* Carpenter, 1857 (OD).

**EGILINA** Dall & Bartsch, 1906. TS: *Parthenia mariella* A. Adams, 1860g (OD). [= **PARTULIDA** Schaufuss, 1869 = **SPIRALINELLA** Chaster, 1901] [fide Cossman, 1921: 259].

**ELODIA** De Folin, 1870 not Robineau-Desvoidy, 1863 (fide Neave, 1939b). TS: *E. hortensiae* De Nansouty in De Folin & Périer, 1872 [= *Jaminia obtusa* Brown, 1827]. (OD). See van Aartsen (1984: 134, 135).

**ELODIAMEA** De Folin in Hoyle, 1886. Nom. nov. pro **ELODIA** De Folin, 1870. ). TS: *Elodia hortensiae* De Nansouty in De Folin & Périer, 1872 [= *Jaminia obtusa* Brown, 1827]. (OD). = **PARTHENINA** Bucquoy, Dautzenberg, & Dollfus, 1883 (same type). See van Aartsen (1984: 134, 135).

**EUPARTHENIA** Thiele, 1929. Nom. nov. pro **PARTHENIA** Lowe, 1841 not Robineau-Desvoidy, 1830 (fide Neave, 1940a) pro parte. TS: *P. bulinea* Lowe, 1841 (OD). See van Aartsen & Corgan (1996c).

**EUPYRGULINA** Melvill, 1910a. TS: *Pyrgulina dautzenbergi* Melvill, 1910a (here selected).

**EURATHEA** Laseron, 1959. TS: *E. humerica* Laseron, 1959 (OD).

**EVALINA** Dall & Bartsch, 1904. TS: *Odostomia* (*E.*) *americana* Dall & Bartsch, 1904 (OD).

**FARGOA** Bartsch, 1955. TS: *F. calesi* Bartsch, 1955 [= *Odostomia bushiana* Bartsch, 1909] (OD).

**FOLINELLA** Dall & Bartsch, 1904. TS: *Amoura anguliferens* De Folin in De Folin & Périer, 1873 (OD). = **AMOURA** De Folin in De Folin & Périer, 1873 (same type) = **FUNICULARIA** Monterosato, 1884 not Forbes, 1845. (See van Aartsen 1984:136).

**FUNICULARIA** Monterosato, 1884 not Forbes, 1845. TS: *Rissoa excavata* Philippi, 1836 (SD: Dall & Bartsch, 1909). See

**IVIDELLA** Dall & Bartsch, 1909 and van Aartsen (1984:136).

**GURMATIA** Dance & Eames, 1966. TS: *G. wilkinsi* Dance & Eames, 1966 (OD).

**HALDRA** Dall & Bartsch, 1904. TS: *Odostomia* (*Chrysallida*) *photis* Carpenter, 1857 (OD).

**HEREWARDIA** Iredale, 1955. TS: *Rissoina kesteveni* Hedley,



- 1907 (OD). See Ponder (1985). = **FOLINELLA** Dall & Bartsch, 1904 (This work).
- HINEMOA** Oliver, 1915. TS: *H. punicea* Oliver, 1915 (M).
- IOLAEA** A. Adams, 1867. Nom. nov. pro **IOLE** A. Adams, 1860a not Blyth, 1844 (fide Neave, 1939b). TS: *Iole scitula* A. Adams, 1860a (M). Renamed **IOLINA** Baily, 1948.
- IOLE** A. Adams, 1860a not Blyth, 1844. TS: *I. scitula* A. Adams, 1860a (M).
- IOLINA** Baily, 1948. Nom. nov. pro **IOLAEA** A. Adams, 1860 (*sic*) not **IOLEA** Pascoe, 1858 (fide Neave, 1939b). Baily replaced a name that was not a homonym. Superfluous synonym of **IOLAEA** A. Adams, 1867.
- IVARA** Dall & Bartsch in Arnold, 1903. TS: *Odostomia terricula* Dall & Bartsch in Arnold, 1903 (M). (See Palmer, 1958).
- IVIDELLA** Dall & Bartsch, 1909. Proposed as a synonym of **FUNICULARIA** Monterosato, 1884 not **FUNICULARIA** Lamarck, 1816 (= err. pro **FUNICULINA** Lamarck 1816, fide Neave, 1939b). Type species must be *Rissoa excavata* Philippi, 1836. An original designation of *Odostomia (Ividia) navisa* Dall & Bartsch, 1907 is an error. = **FOLINELLA** Dall & Bartsch, 1904. See van Aartsen (1984: 136, 137). There is **FUNICULARIA** Forbes, 1845 so the replacement is needed.
- IVIDIA** Dall & Bartsch, 1904. TS: *Odostomia (Parthenia) armata* Carpenter, 1857 (OD). = **MIRALDA** A. Adams, 1863b (fide Dall & Bartsch, 1909: 172).
- JAMINEA** as of Brown, 1827 in J. E. Gray, 1847. Err. typ. pro **JAMINIA** Brown, 1827 not Risso, 1826.
- JAMINIA** Brown, 1827 not Risso, 1826. TS: *Turbo interstinctus* Montagu, 1803 (SD: J. E. Gray, 1847). = **PARTHENINA** Bucquoy, Dautzenberg, & Dollfus, 1883.
- JAMININA** Dall & Bartsch, 1909. Err. typ. pro **JAMINEA** as of Brown, 1827.
- KLEINELLA** A. Adams, 1860a. TS: *K. cancellaris* A. Adams, 1860a (M).
- LASERONELLA** Whitley, 1959. Nom. nov. pro **PANDORELLA** Laseron, 1951 not Conrad, 1863. TS: *Pandorella declivita* Laseron, 1951 (OD).
- LEVIPYRGULINA** Laws, 1941. TS: *L. sulcata* Laws, 1941 (OD).
- LIA** De Folin in De Folin & Périer, 1873 not Eschscholtz, 1829 (fide Neave, 1939b), not Mörch, 1852. TS: *L. decorata* De Folin in De Folin & Périer, 1873 (M). Renamed **LIAMORPHA** Pilsbry, 1898.
- LIAMORPHA** Pilsbry, 1898. Nom. nov. pro **LIA** De Folin in De Folin & Périer, 1873 not Eschscholtz, 1829 (fide Neave, 1939b). TS: *Lia decorata* De Folin in De Folin & Périer, 1873 (M). = **MIRALDA** A. Adams, 1863b (fide Dall & Bartsch, 1909:176). Pilsbry wrote **LIOMORPHA**, here viewed as a *lapsus calami*. **LIAMORPHA** was used by Kisch (1959) and by van Aartsen (1984). **LIOMORPHA** is essentially unused.
- LINOPYRGA** Laws, 1941. TS: *Odostomia rugata* Hutton, 1886 (OD).
- LIOMORPHA** Pilsbry, 1898. *Lapsus calami* for **LIAMORPHA** Pilsbry, 1898.
- MENESTELLA** Nomura, 1939. TS: *Menestho (M.) tarukiensis* Nomura, 1939 (OD).
- MENESTHO** Möller, 1842. TS: *Turbo albulus* Fabricius, 1780 (M). = **PYRAMIS** Couthouy, 1839 not Schumacher, 1817 (fide Fischer, 1885: 789).
- MIDDIELLA** Vaught, 1989. Probably = Err. typ. pro **MIRALDIELLA** Cossmann, 1921.
- MIRALDA** A. Adams, 1863b. TS: *Parthenia diadema* A. Adams, 1860c (SD: Verrill & Bush, 1900).
- MIRALDELLA** Bartsch, 1955. TS: *Miralda (M.) gordonae* Bartsch, 1955 (OD).
- MIRALDIELLA** Cossmann, 1921. TS: *Odostomia (Parthenia) exarata* Carpenter, 1857 (OD). = **PSEUDOSCILLA** Boettger, 1901. See van Aartsen, Gittenberger, & Goud (1998).
- MONOTYGMA** J. E. Gray, 1847. TS: *M. striata* J. E. Gray, 1847 (M). See van Aartsen (1986: 183).
- MUMIOLA** A. Adams, 1863b. TS: *Monotypgma spirata* A. Adams, 1853a (SD: Verrill & Bush, 1900).
- NUMAEGILINA** Nomura, 1938. TS: *Chrysallida (N.) gloria* Nomura, 1938 (OD). = **PAREGILA** Laseron, 1951 (fide Saurin, 1959: 242).
- OSCILLA** A. Adams, 1861c. TS: *Monotypgma (O.) cingulata* A. Adams, 1861c (M). Dall & Bartsch (e.g.: in Arnold, 1903) incorrectly give the date as 1867 and the type species as *Odostomia (Evalea) lirata* A. Adams. See Iredale (1910: 54) and van Aartsen (1994).
- PANDORELLA** Laseron, 1951 not Conrad, 1863. TS: *P. declivita* Laseron, 1951 (OD). Renamed **LASERONELLA** Whitley, 1959.
- PAREGILA** Laseron, 1951. TS: *Odostomia hennei* Brazier in Henn, 1894 (OD). = **NUMAEGILINA** Nomura, 1939 (fide Saurin, 1959)
- PARTHENIA** Lowe, 1841 not Robineau-Desvoidy, 1830 (fide Neave, 1940a). TS: *P. bulinea* Lowe, 1841 (SD: Monterosato, 1880). Renamed **EUPARTHENIA** Thiele, 1929.
- PARTHENIA** H. & A. Adams, 1853 not Lowe, 1841. TS: *Turbo spiralis* Montagu, 1803 (SD: Iredale, 1917). = **PARTULIDA** Schaufuss, 1869 = **SPIRALINA** Chaster, 1898 not Hartmann, 1840 (fide Neave, 1940b). = **SPIRALINELLA** Chaster, 1901 (same type).
- PARTHENINA** Bucquoy, Dautzenberg, & Dollfus, 1883. TS: *Turbo interstinctus* Montagu, 1803 (OD).
- PARTHULIDA** Grossu, 1986. Err. typ. pro **PARTULIDA** Schaufuss, 1869.
- PARTIDULA** Ankel, 1936 (fide Neave, 1950). Err. typ. pro **PARTULIDA** Schaufuss, 1869.
- PARTULIDA** Schaufuss, 1869. Nom. nov. pro **PARTHENIA** H. & A. Adams, 1853 not Lowe, 1841. TS: *Turbo spiralis* Montagu, 1803 (SD: Iredale, 1917). = **SPIRALINA** Chaster, 1898 not Hartmann, 1840 (fide Neave, 1940b). = **SPIRALINELLA** Chaster, 1901 (same type).
- PERPARTHENINA** Nordsieck, 1972. TS: *Chemnitzia terebellum* (Philippi, 1844) sensus Nordsieck, 1972 (OD) [= *Chrysallida juliae* De Folin in De Folin & Périer, 1872 (fide van Aartsen & Menkhorst, 1996: 47; Micali, Nofroni & van Aartsen, 1993)].
- POLEMICELLA** Saurin, 1959. TS: *Pyrgulina polemica* Melvill, 1910b (doubtfull OD, therefore here designated).
- PRESTONELLA** Saurin, 1958. TS: *Pyrgulina prestoni* Dautzen-



- berg & Fischer, 1907 (OD).
- PSEUDOSCILLA** Boettger, 1901. TS: *Oscilla* (*P.*) *miocaenica* Boettger, 1901 (M). = **MIRALDIELLA** Cossmann, 1921. (See van Aartsen, Gittenberger, and Goud, 1998).
- PUKENRIA** Salisbury, 1942. Err. typ. pro **PUKEURIA** Laws, 1941.
- PUKEURIA** Laws, 1941. TS: *P. anaglypta* Laws, 1941 (OD).
- PURPARTHENIA** Grossau, 1986. Err. typ. pro **PERTHENINIA** Nordsieck, 1972.
- PYAGULINA** Powell, 1927. Err. typ. pro **PYRGULINA** A. Adams, 1863b.
- PYRGOLINA** Harmer, 1923. Err. typ. pro **PYRGULINA** A. Adams, 1863b.
- PYRGULETTA** Cossmann & Peyrot, 1917. TS: *Pyrgulina* (*P.*) *degrangei* Cossmann & Peyrot, 1917 (OD). = **PARTHENINIA** Bucquoy, Dautzenberg, & Dollfus, 1883 (fide Cossmann, 1921).
- PYRGULINA** A. Adams, 1863b. TS: *Chrysallida casta* A. Adams, 1861b (SD: Dall & Bartsch, 1904). [Not *Monoptygma casta* A. Adams, 1853a].
- QUIRELLA** Laseron, 1959. TS: *Q. mirationis* Laseron, 1959 (OD).
- RAVNOSTOMIA** Adegoke, 1977. TS: *Odostomia* ? *selandica* Ravn, 1933 (OD). See Corgan (1995).
- SALASSIA** De Folin, 1870. TS: *S. carinata* De Folin in De Folin & Périer, 1873 (SD: Van Aartsen, 1984:133). The type species is renamed *Odostomia tropidita* Dall & Bartsch, 1909 [= *Salassia carinata* De Folin in De Folin & Périer, 1873 not *Odostomia carinata* H. Adams, 1873].
- SALASSIELLA** Dall & Bartsch, 1909. TS: *Odostomia* (*S.*) *laxa* Dall & Bartsch, 1909 (OD). Easily confused with **SALASIELLA** Strebel, 1878, also a gastropod (fide Vaught, 1989).
- SIOGAMAIA** Nomura, 1936. TS: *Tropaeas* (*S.*) *fortiplicata* Nomura, 1936 (OD).
- SPIRALINA** Chaster, 1898 not Hartmann, 1840 (fide Neave, 1940b). TS: *Turbo spiralis* Montagu, 1803 not Poiret, 1801 = *Voluta pellucida* Dillwyn, 1817. (M). See van Aartsen & Gianuzzi-Savelli (1991: 6). Renamed **SPIRALINELLA** Chaster, 1901.
- SPIRALINELLA** Chaster, 1901. Nom. nov. pro **SPIRALINA** Chaster, 1898 not Hartmann, 1840 (fide Neave, 1940b). TS: *Turbo spiralis* Montagu, 1803 (M). = **PARTULIDA** Schaufuss, 1869 (same type).
- SPIRULINA** Vaught, 1989. Err. typ. pro **SPIRALINA** Chaster, 1898.
- STANDENIELLA** Saurin, 1958. TS: *Pyrgulina standeni* Dautzenberg & Fischer, 1907 (OD).
- STRIATURBONILLA** Bucquoy, Dautzenberg, & Dollfus, 1898. Err. typ. pro **STRIOTURBONILLA** Sacco, 1892.
- STRIOTURBONILLA** Sacco, 1892. TS: *Odostomia sigmoidea* Jeffreys, 1884 [= *O. sigmoidea* Monterosato, 1880] (OD). See also the unnamed turbonillid genus **STRIOTURBONILLA** Sacco in the sense of Dall & Bartsch in Arnold, 1903.
- TIBERIELLA** Coen, 1933 (ex Monterosato ms.). TS: *Tiberia pretiosa* Coen, 1933 (M). The holotype and only known specimen belongs to *Chrysallida obtusa* (Brown, 1827) forma *moulin-*
- siana* Fischer, 1864. = **PARTHENINIA** Bucquoy, Dautzenberg, & Dollfus, 1883 (same type). See van Aartsen, Gittenberger, & Goud (1998).
- TRABECULA** Monterosato, 1884. TS: *T. jeffreysiana* Monterosato, 1884. (OD)
- TRAGULA** Monterosato, 1884. TS: *Odostomia fenestrata* Jeffreys, 1848 (M). Renamed **BURKILLA** Iredale, 1915.
- WAIKURA** Marwick, 1931. TS: *W. torques* Marwick, 1931 (M).
- CHRYSALLIDINAE?**
- RAULINIA** Mayer, 1864. TS: *Tornatella alligata* Deshayes, 1832 (M).
- RUGADENTIA** Laseron, 1951. TS: *Odostomia ignava* Hedley, 1908 (OD). Some equate with **HERVIERA** Melvill & Standen, 1899a (fide Laseron, 1959: 211; fide Ponder, 1974: 31). Here ranked as a valid genus.
- STYLOPYRAMIS** Thiele, 1929. TS: *S. cerithioides* Thiele, 1929 (M). See van Aartsen & Corgan (1996c).
- TAPHROSTOMIA** Cossmann, 1921. TS: *Odontostomia* (*T.*) *sandbergeri* Cossmann, 1921 [= nom. nov. pro *Odontostoma scalare* Sandberger, 1860 not *Odostomia scalaris* Macgillivray, 1843] (OD).
- ODOSTOMELLINAE**
- Author: Saurin 1959
- Type: *Odostomella* Bucquoy, Dautzenberg, & Dollfus, 1883
- See Corgan & van Aartsen (1998b) and Schander, Hori, & Lundberg (In Press).
- HERVIERA** Melvill & Standen, 1899a. TS: *Pyrgulina gliviella* Melvill & Standen, 1896 (OD). See also Melvill & Standen, 1899b.
- ODONTOSTOMIELLA** Cossmann & Peyrot, 1917. Unjustified emendation of **ODOSTOMELLA** Bucquoy, Dautzenberg, & Dollfus, 1883.
- ODOSTOMELLA** Bucquoy, Dautzenberg, & Dollfus, 1883. TS: *Rissoa doliolum* Philippi, 1844 (OD).
- ODOSTOMIELLA** Dall & Bartsch, 1904. Err. typ. pro **ODOSTOMELLA** Bucquoy, Dautzenberg, & Dollfus, 1883.
- ODOSTOMIELLA** Fischer, 1885. Unjustified emendation of **ODOSTOMELLA** Bucquoy, Dautzenberg, & Dollfus, 1883.
- CYCLOSTREMELLINAE**
- Author: Moore, 1966
- Type: *Cyclostremella* Bush, 1897
- Originally as **CYCLOSTREMELLIDAE**
- CYCLOSTREMELLA** Bush, 1897. TS: *C. humilis* Bush, 1897 (M). See Robertson (1973).
- PSEUDOSKENELLA** Ponder, 1973. TS: *P. depressa* Ponder, 1973 (OD).
- PYRAMIDELLIDAE**
- Author J. E. Gray, 1840
- (fide International Commission on Zoological Nomenclature, 1956c)
- Type: *Pyramidella* Lamarck, 1799



= OBELISCIDAE A. Adams, 1863a, as OBELISCINAE (Type: *Obeliscus* de Calonne (attributed to Humphreys), 1797, see ILLEGAL NAMES)

= PLOTIIDAE Focart, 1951

(fide International Commission on Zoological Nomenclature, 1956c)

(Type: *Plotia* Röding, 1798, see ILLEGAL NAMES)

#### PYRAMIDELLINAE

As above.

**APHALISTA** Laseron, 1959. TS: *Pyramidella mitralis* A. Adams, 1855 (OD). = **OTOPLEURA** Fischer, 1885. Does not = **PYRAMIDELLA** Lamarck, 1799.

**CALLOLONGCHAEUS** Dall, 1903. TS: *Pyramidella jamaicensis* Dall in Guppy & Dall, 1896 (M). **CALLOLONGCHAEUS** is generally attributed to Dall & Bartsch, 1904.

**CREONELLA** Wade, 1917. TS: *C. triplicata* Wade, 1917 (OD).

**LACRIMIFORMA** Sohl, 1963. TS: *Creonella secunda* Wade, 1926 (OD).

**LOCKLINIA** Bartsch, 1955. TS: *L. fargoii* Bartsch, 1955 (OD).

**LONGCHAEUS** Mörch, 1875. TS: *Pyramidella punctata* Chemnitz (invalid: International Commission on Zoological Nomenclature, 1944; 1954) [= *P. punctata* Schubert & Wagner, 1829] (SD: Dall & Bartsch, 1904).

**MILDA** Dall & Bartsch, 1904. TS: *Pyramidella ventricosa* Guérin-Méneville, 1831 (OD). Type originally cited as *Obeliscus ventricosus* Quoy.

**OTOPLEURA** Fischer, 1885. Nom. nov. pro **PYRAMIDELLA** H. & A. Adams, 1853 not Lamarck, 1799. TS: *Voluta auriscati* Chemnitz (invalid: International Commission on Zoological Nomenclature, 1944; 1954) = *V. auriscati* Holten, 1802 (M).

**PHARCIDELLA** Dall, 1889. TS: *Pyramidella (P.) folinii* Dall, 1889 (M).

**PYRAMIDELLA** Lamarck, 1799. TS: *Trochus dolabratus* Linné, 1758 (M). International Commission on Zoological Nomenclature (1956a; 1956b; 1956c). Official List, Name no. 978.

**PYRAMIDELLIDA** Bartsch, 1917. Err. typ. pro **PYRAMIDELLA** Lamarck, 1799.

**PYRAMIDELLUS** Montfort, 1810. Nom. mut. pro **PYRAMIDELLA** Lamarck, 1799.

**TRIPTYCHUS** Mörch, 1875. TS: *T. niveus* Mörch, 1875 (M).

**VOLUSPA** Dall & Bartsch, 1904. TS: *Pyramidella auricoma* Dall, 1889 (OD).

**URAMBELLA** Laseron, 1959. TS: *U. ballerina* Laseron, 1959 (OD).

**WINGENELLA** Laseron, 1959. TS: *W. eburnea* Laseron, 1959 (OD). = **LONGCHAEUS**. Mörch, 1875. See Cernohorsky (1972: 200).

#### SAYELLINAE

Author: Wise, 1996

Type: *Sayella* Dall, 1885

**PETITELLA** Wise, 1996 not Géry & Boutière, 1964 (fide Edwards & Vevers, 1975). TS: *Melampus (Sayella) crosseana* Dall,

1885 (OD). Renamed **PETITILLA** Wise, 1997.

**PETITILLA** Wise, 1997. Nom. nov. pro **PETITELLA** Wise, 1996 not **PETITELLA** Géry & Boutière, 1964 (fide Edwards & Vevers, 1975). TS: *Melampus (Sayella) crosseana* Dall, 1885 (OD).

**SAYELLA** Dall, 1885. TS: *Leuconia hemphillii* Dall, 1884 (OD).

#### PYRAMIDELLIDAE sensu lato

These genera are generally assigned to the Pyramidellidae. We question their placement in existing subfamilies.

**CONTRAXIALA** Laseron, 1956. TS: *C. obliqua* Laseron, 1956 (OD). See Ponder (1985: 108).

**COSSMANNICA** Dall & Bartsch, 1904. Nom. nov. pro **DIP-TYCHUS** Cossmann, 1888 not Steindachner, 1866 (fide Neave, 1939b). TS: *Pyramidella clandestina* Deshayes, 1861 (OD).

**DIPTYCHUS** Cossmann, 1888 not Steindachner, 1866 (fide Neave, 1939b). TS: *Pyramidella clandestina* Deshayes, 1861 (OD). Renamed **COSSMANNICA** Dall & Bartsch, 1904.

**EULIMOTIBERIA** Nomura, 1939. TS: *Pyramidella (E.) kame-nariensis* Nomura, 1939 (OD). The figure of the type species is number 22, not 32 as stated.

**MORRISONIETTA** Brandt, 1968. TS: *M. krungtepensis* Brandt, 1968 (OD).

**PERISTICHIA** Dall, 1889. TS: *P. toreta* Dall, 1889 (OD). See Bush (1909).

**ULFA** Dall & Bartsch, 1904. TS: To quote, "*Pyramidella (Ulfa) cossmanni* nom. nov. = *Syrnola striata* Cossmann" (OD). The name is for the use of *Pasithea striata* Lea, 1833 by Cossmann (1893b: 23). See Cossmann (1921: 223).

**VAGNA** Dall & Bartsch, 1904. TS: *Pyramidella paumotensis* Tryon, 1886 [= *Obeliscus hyalinus* Garrett, 1873 not Dunker, 1860] (OD).

#### SYRNOLIDAE

Author: Saurin, 1958

Type: *Syrnola* A. Adams, 1860g

Originally as SYRNOLINAE, here reranked

See Corgan & van Aartsen (1998b),

#### SYRNOLINAE

As above

**ADELACTAEON** Cossmann, 1895. TS: *Tornatella papyraceus* Basterot, 1825 (OD). = **MYONIA** A. Adams, 1861 not Dana, 1847 (fide Neave, 1940a).

**AGATHA** A. Adams, 1860g. TS: *A. virgo* A. Adams, 1860g (M).

**AMATHIS** A. Adams, 1861b. TS: *Myonia virgo* A. Adams, 1860g (= *Agatha virgo* A. Adams, 1860g) (OD). = **AGATHA** A. Adams, 1860g same type.

**COLSYRNOLA** Iredale, 1929. TS: *C. sericea* Iredale, 1929 (OD) (M).

**COSTOSYRNOLA** Laws, 1937c. TS: *C. tabulata* Laws, 1937c (OD).

**CRICOLOPHUS** Weisbord, 1962. TS: *Orinella (C.) humboldti* Weisbord, 1962 (OD).





**DERJUGINELLA** Habe, 1958. TS: *Stylopsis rufofasciata* E. A. Smith, 1875 (M).

**ELUSA** A. Adams, 1861c not Walker, 1858 (fide Neave, 1939b). TS: *E. teres* A. Adams, 1861c (M). = **TROPAEAS** Dall & Bartsch, 1904. [fide Thiele, 1929: 237; fide Wenz, 1940: 868].

**EVALETTA** Pilsbry, 1918. TS: *Turbonilla (E.) elizabethae* Pilsbry, 1918 (OD). = **IPHIANA** Dall & Bartsch, 1904 (fide Wenz, 1940: 863).

**FINLAYOLA** Laws, 1937c. TS: *F. finlayi* Laws, 1937c (OD). = **SYRNOLA** A. Adams, 1860b (fide Beu & Maxwell, 1990: 388)

**HOONSYRNOLA** Nomura, 1938. TS: *Pyramidella inturbida* Yokoyama, 1927 (OD). = **PUPOSYRNOLA** Cossmann, 1921 (fide Corgan, 1972a: 356, 357).

**IPHIANA** Dall & Bartsch, 1904. TS: *Odostomia densestriata* Garrett, 1873 (OD). The type species was spelled *O. densistriata* by Dall & Bartsch.

**MYONIA** A. Adams, 1860b not Dana, 1847 (fide Neave, 1940a). TS: *M. japonica* A. Adams, 1860b (M). See **ADELAC-TAEON** Cossmann, 1895.

**ORINA** A. Adams, 1870 not Agassiz, 1846 (fide Neave, 1940a). TS: *O. pinguicula* A. Adams, 1870 (M). Renamed **ORINELLA** Dall & Bartsch, 1904.

**ORINELLA** Dall & Bartsch, 1904. Nom. nov. pro **ORINA** A. Adams, 1870 not Agassiz, 1846. TS: *Orina pinguicula* A. Adams, 1870 (M). The type specimen of *O. pinguicula* was first illustrated by van Aartsen (1994: 87, fig. 4). It may be a deformed individual. Supposed generic characters may reflect pathology.

**PACHYSYRNOLA** Cossmann, 1907. TS: *Syrnola (P.) boudasi* Cossmann, 1907 (OD).

**PTYCHEULIMELLA** Sacco, 1892. TS: *Tornatella pyramidata* Deshayes, 1835 (SD: Dall & Bartsch, 1904).

**PUPOSYRNOLA** Cossmann, 1921. TS: *Auricula acicula* Lamarck, 1804 (OD).

**RISSOSYRNOLA** Nomura, 1939. TS: Identified as *Mormula aclis* A. Adams (OD). Here interpreted as *Pyramidella aclis* A. Adams, 1853b

**STYLOPSIS** A. Adams, 1860b. TS: *S. typica* A. Adams, 1860b (OD).

**STYLOPTYGMA** A. Adams, 1860b. TS: *Monoptygma stylina* A. Adams, 1853a (OD). The type species was renamed *Pyramidella (S.) typica* Tryon, 1886 [= *Styloptygma stylina* (A. Adams, 1853a) not *Obeliscus stylinus* A. Adams, 1854a].

**SYRNOLA** A. Adams, 1860b. TS: *S. gracillima* A. Adams, 1860b (M). See van Aartsen (1994).

**SYRNOLINA** Dall & Bartsch, 1904. TS: *Odostomia rubra* Pease, 1868 (OD).

**TIBERSYRNOLA** Laws, 1937c. TS: *Syrnola semiconcava* Marshall & Murdoch, 1923 (OD).

**TROPAEAS** Dall & Bartsch, 1904. TS: *Pyramidella subulata* A. Adams, 1854a (OD). = **ELUSA** A. Adams, 1861c not Walker, 1858 [fide Thiele, 1929: 237; fide Wenz, 1940: 868].

#### TIBERIINAE

Author: Saurin, 1958

Type: *Tiberia* Monterosato, 1875

Revised: Van Aartsen & Corgan, this work

The subfamily has many-whorled, umbilicate shells that lack both sculpture and teeth but may have slight folds on the columella. Concept of the TIBERIINAE developed when many people interpreted *Tiberia* Monterosato, 1875 as biplicate.

**TIBERIA** Monterosato, 1875. TS: *Pyramidella minuscula* Monterosato, 1874 nom. nud. (OD). The type species is validly described as *P. minuscula* Monterosato, 1880.

**TIBERIA** Jeffreys, 1884. TS: *Pyramidella nitidula* (A. Adams, 1860f) sensu Jeffreys, 1884 [= *P. minuscula* Monterosato, 1880] (M). = **TIBERIA** Monterosato, 1875 (same type). Renamed **TIBERIOLA** Cossmann, 1900 (same type).

**TIBERIOLA** Cossmann, 1900. Nom. nov. pro **TIBERIA** Jeffreys, 1884 not Monterosato, 1875. TS: *Pyramidella minuscula* Monterosato, 1880 (M). Superfluous synonym of **TIBERIA** Monterosato, 1875.

#### TURBONILLIDAE

Author: Bronn, 1849

Type: *Turbonilla* Risso, 1826

(fide Ponder & Warén, 1988).

Originally as **TURBONILLINA** (fide Ponder & Warén, 1988).

= **CHEMNITZIIDAE** Stoliczka, 1868

Type: *Chemnitzia* d'Orbigny, 1840

(fide Ponder & Warén, 1988).

#### TURBONILLINAE

As above

**AMAMIMORMULA** Kuroda, 1928. TS: *Turbonilla belonis* Melvill & Standen, 1896 (M).

**ASMUNDA** Dall & Bartsch, 1904. TS: *Chemnitzia turrata* C. B. Adams, 1852 (OD).

**BARTSCHELLA** Iredale, 1916. Nom. nov. pro **DUNKERIA** sensu Dall & Bartsch, 1909 not Carpenter, 1857. TS: *Chemnitzia (Dunkeria) subangulata* Carpenter, 1857 (OD).

**BALDRA** Dall & Bartsch, 1904. TS: *Turbonilla (B.) archeri* Dall & Bartsch, 1904 (OD). The type specimen of the type species is unillustrated, making this taxon hard to interpret. The type was examined by Corgan.

**CHEMNITZIA** d'Orbigny, 1840. TS: *Melania campanellae* Philippi, 1836 (M). = **TURBONILLA** Risso, 1826. *Melania campanellae* and *Turbonilla costulata* Risso, 1826, the type species of **TURBONILLA**, are here viewed as two junior synonyms of *Turbo lacteus* Linne, 1758. See Monterosato (1884: 92) and van Aartsen (1981: 75, 76).

**CYLINDRITURBONILLA** Nordsieck, 1972. TS: *Odostomia compressa* Jeffreys, 1884 (OD).

**CYRTOTURBONILLA** Nordsieck, 1972. TS: *Chemnitzia pusilla* Philippi, 1844 (OD). = **TURBONILLA** Risso, 1826 (This work.)

**DUNKERIA** Carpenter, 1857. TS: *Chemnitzia (Dunkeria) paucilirata* Carpenter, 1857 (SD: Bucquoy, Dautzenberg, & Dollfus, 1898). = **PYGISCULUS** Monterosato, 1884 [fide Dall & Bartsch, 1909: 120]. See **BARTSCHELLA** Iredale, 1916.

**EBALA** Leach in J. E. Gray, 1847. TS: *Turbo elegantissima* Mon-



- tagu, 1803 (M). See Gougerot & Feki (1980: 90, 91).
- EUTURBONILLA** Semper, 1861. TS: *Turbonilla variculosa* Semper, 1861 (SD: This work). = **TURBONILLA** Risso, 1826. See R. Janssen (1979: 340).
- EXESILLA** Laseron, 1959. TS: *E. sulcata* Laseron, 1959 (OD).
- GISPYRELLA** Laws, 1937a. TS: *G. finlayi* Laws, 1937b (SD: Laws, 1937b).
- GRACILITURBONILLA** Nordsieck, 1972. TS: *Odostomia delicata* Monterosato, 1874 (OD).
- HOUBRICKIA** Wise, 1996. TS: *Turbonilla incisa* Bush, 1899 not *T. incisa* von Koenen, 1891 (OD).
- LANCEA** Pease, 1868. TS: *Turbonilla elongata* Pease, 1868 [= *T. peasei* Dall & Bartsch, 1906] (M). Renamed **LANCELLA** Dall & Bartsch, 1904.
- LANCELLA** Dall & Bartsch, 1904. Nom. nov. pro **LANCEA** Pease, 1868 not **LANCIA** Walker, 1859 (fide Neave, 1939b). Dall & Bartsch replaced a name that was not a homonym. Superfluous synonym of **LANCEA** Pease, 1868.
- MAGNITURBONILLA** Nordsieck, 1972. TS: *Turbonilla speciosa* H. Adams, 1869, not *T. speciosa* A. Adams, 1860g (OD). Type species renamed *Turbonilla macandreae* H. Adams, 1871.
- MICROBELISCUS** Sandberger, 1874. TS: *Melania inaspectus* Fuchs, 1870 (OD). = **CHEMNITZIA** d'Orbigny, 1840 (fide Bartsch, 1955: 18).
- MORMULA** A. Adams, 1863b. TS: *M. rissoina* A. Adams, 1863b (SD: Verrill & Bush, 1900). = **PYRGOSTYLUS** Monterosato, 1884 (fide Thiele, 1929: 237).
- MORMULASTA** Laseron, 1959. TS: *M. iredalei* Laseron, 1959 (OD). = **MORMULA** auct not A. Adams, 1863b = **PYRGOSTYLUS** Monterosato, 1884. (This work)
- NISITURRIS** Dall & Bartsch, 1906. TS: *Turbonilla (N.) crystallina* Dall & Bartsch, 1906 (OD).
- ORTHOSTELES** Paetel, 1875. Err. typ. pro **ORTOSTELIS** Aradas & Maggiore, 1841 (fide Neave, 1940a).
- ORTHOSTELIS** Philippi, 1844. Err. typ. pro **ORTOSTELIS** Aradas & Maggiore, 1841.
- ORTOSTELIS** Aradas & Maggiore, 1841. TS: *Melania rufa* Philippi, 1836 (SD: Dall & Bartsch, 1909). = **PYRGISCUS** Philippi, 1841, same type.
- PARAMORMULA** Nomura, 1939. TS: *Turbonilla varicosa* Dunker, 1860 not *Parthenia varicosa* Forbes, 1844 [= *Turbonilla aulica* Dall & Bartsch, 1906] (OD).
- PARATURBONILLA** Boettger, 1906. TS: *Turbonilla (P.) aptyx* Boettger, 1906 (OD).
- PLANPYRGISCUS** Laws, 1937a. TS: *Turbonilla (P.) extenuata* Marwick, 1931 (SD Laws, 1937b).
- PSELLIOGYRA** Dall & Bartsch, 1909. TS: *Turbonilla monocycla* A. Adams, 1860g (OD).
- PYRGISCILLA** Laws, 1937a. TS: *Turbonilla (Strioturbonilla) chattonensis* Marwick, 1929 (SD: Laws, 1937b).
- PYRGISCULUS** Monterosato, 1884. TS: *Melania scalaris* Philippi, 1836 (OD, M). = **DUNKERIA** Carpenter, 1857 (fide Thiele, 1929: 237). The type species should be named *Odostomia jeffreysii* Jeffreys, 1848 [= *Melania scalaris* Philippi, 1836 not Spix in Wagner, 1827]. See van Aartsen (1987b: 150).
- PYRGISCUS** Philippi, 1841. TS: *Melania rufa* Philippi, 1836 (SD: Dall & Bartsch in Arnold, 1903). = **PYRGOSTELIS** Monterosato, 1884 (same type); = **ORTOSTELIS** Aradas & Maggiore, 1841 (same type).
- PYRGOLAMPROS** Sacco, 1892. TS: *Turbonilla (P.) mioperplicatulus* Sacco, 1892 (OD).
- PYRGOLAMPRUS** Cossmann, 1921. Err. typ. pro **PYRGOLAMPROS** Sacco, 1892.
- PYRGOLIDIDIUM** Monterosato, 1884. TS: *Chemnitzia internodula* Wood, 1848 (OD). Dall & Bartsch (1904:8) cited "*Pyrgolidium roseum* Mont.," then "*Pyrgolidium roseum* Montagu" (Dall & Bartsch, 1909:11). This species is *Odostomia rosea* Monterosato, 1877. These errors had little influence.
- PYRGOSTELIS** Monterosato, 1884. TS: *Melania rufa* Philippi, 1836 (SD: Crosse, 1885). = **PYRGISCUS** Philippi, 1841 (same type).
- PYRGOSTELYS** Sacco, 1892. Err. typ. pro **PYRGOSTELIS** Monterosato, 1884.
- PYRGOSTYLUS** Monterosato, 1884. TS: *Turbo striatulus* Linné, 1758 (M). = **MORMULA** A. Adams, 1863b (fide Thiele, 1929: 237).
- STRIARCANA** Laws, 1937a. TS: *S. cryptolira* Laws, 1937b (SD: Laws, 1937b).
- STRIOTURBONILLA** Sacco in the sense of Dall & Bartsch (in Arnold, 1903: 270). TS: *Turbonilla alpina* Sacco, 1892. Dall & Bartsch erroneously identified *Turbonilla alpina* Sacco, 1892 not Winkler, 1861 as the type species of Sacco's genus. **STRIOTURBONILLA** Sacco in the sense of Dall & Bartsch is, at present, an unnamed turbonillid genus while **STRIOTURBONILLA** Sacco, 1892 is an odostomiid genus. In an index to Beu and Maxwell (1990: 507) said "*Strioturbonilla* (=Pyrgiscilla)." We reject this cryptic suggestion of synonymy. The situation is complex.
- SULCOTURBONILLA** Sacco, 1892. TS: *Tornatella turricula* Eichwald, 1853 (M).
- TAURANGIA** Laws, 1937a. TS: None. This genus lacks content (See Laws, 1937b: 184)
- TEREBRONILLA** Eames, 1951. TS: *Turbonilla (T.) terebri-formis* Eames, 1951 not E. A. Smith, 1890 (M). Renamed *Turbonilla (T.) corgani* Eames, 1968.
- TURBONILLA** Risso, 1826. TS: *T. costulata* Risso, 1826 SD: Herrmannsen, 1852: 136). The type species equals *Turbo lacteus* Linné, 1758 (fide Monterosato, 1884: 92); Dall & Bartsch (1904: 7) cite a different type, *T. typica* Dall & Bartsch, 1904 (= *T. plicatula* Risso, 1826 not *Turbo plicatulus* Brocchi, 1814). This erroneous designation had little influence.
- VARITURBONILLA** Nordsieck, 1972. TS: *Turbonilla rectogallica* Sacco, 1892 (OD). The holotype of *T. rectogallica* Sacco, 1892 [= *T. pusilla* (Philippi) sensu Bucquoy, Dautzenberg, & Dollfus, 1883: pl. 20 fig. 16] is a specimen of *T. pusilla* (Philippi, 1844). Therefore **VARITURBONILLA** is synonymous with **TURBONILLA** Risso, 1826.
- ZAPHELLA** Laseron, 1959. TS: *Turbonilla tribulationis* Hedley, 1909 (OD).

#### EULIMELLINAE

Author: Saurin, 1958



Type: *Eulimella* Forbes & MacAndrew, 1846 (See van Aartsen, 1988).

= EULIMELLINAE Nordsieck, 1972 (Same type)

See Corgan & van Aartsen (1998b). Dall & Bartsch (1904) crystallized an erroneous view of *Eulimella*. They thought it had two teeth. It has no teeth at all but a slight fold is sometimes present (van Aartsen, 1994: 91). This error did not influence concepts of the Eulimellinae. Saurin (1959) revised this subfamily by creating the Cingulininae which we regard as a valid taxon.

**BACTERIDIELLA** Saurin, 1959. TS: *B. filiformis* Saurin, 1959 (M).

**BACTERIDIUM** Thiele, 1929. TS: *Eulimella praeclara* Thiele, 1925 (M). See van Aartsen & Corgan (1996c).

**BELONIDIUM** Cossmann, 1893. TS: *Aciculina gracilis* Deshayes, 1861 (OD).

**CARELIOPSIS** Mörch, 1875. TS: *Monoptygma (C.) styliformis* Mörch, 1875 (M). See van Aartsen (1994).

**DISCOBASIS** Cossmann, 1888. TS: *Scalaria demissa* Deshayes, 1861 (OD).

**ERILIMELLA** Forbes & MacAndrew, 1846. = Err. typ. pro **EULIMELLA** Forbes & MacAndrew, 1846.

**EULIMELLA** Forbes & MacAndrew, 1846 (emend.). TS: *Eulima macandrei* Forbes, 1844 [= *Melania scillae* Scacchi, 1835] (OD). See van Aartsen (1988: 173 and 1994).

**INSTARELLA** Laseron, 1959. TS: *I. subcarinata* Laseron, 1959 (OD). **KEJDONIA** Mifsud, 1999. Nom. nov. pro **PSEUDOGRAPHIS** Mifsud, 1998 not Balinski, 1989. TS: *P. cachiai* Mifsud 1998 (M).

**KOLONELLA** Laseron, 1959. TS: *Eulimella moniliformis* Hedley & Musson, 1891 (OD).

**LATAVIA** Laseron, 1951. TS: *Eulimella pulchra* Brazier in Henn, 1894 (OD).

**LOXOPTYXIS** Cossmann, 1888. TS: *Syrnola conulus* Cossmann, 1888 (OD).

**PARADOXELLA** Laseron, 1959. TS: *P. ambigua* Laseron, 1959 (M).

**RAUOLOSTRACA** Oliver, 1915. TS: *R. inexpectata* Oliver, 1915 (OD).

**SACCOINA** Dall & Bartsch, 1904. Nom. nov. pro **SPICA** Sacco, 1892 not Swinhoe, 1890 (fide Neave, 1940b). TS: *Spica monterosatoi* Sacco, 1892 (M). Reintroduced as a new name by Dall & Bartsch (1909:12).

**SPICA** Sacco, 1892 not Swinhoe, 1889 (fide Neave, 1940b). TS: *S. monterosatoi* Sacco, 1892 (M). Renamed **SACCOINA** Dall & Bartsch, 1904.

**TATHRELLA** Laseron, 1959. TS: *T. iredalei* Laseron, 1959 (OD).

**TERELIMELLA** Laws, 1938. TS: *T. ototarana* Laws, 1938 (OD).

**VISMA** Dall & Bartsch, 1904. TS: *Eulimella tenuis* Sowerby, 1894 not De Folin in De Folin & Périer, 1870 (OD). The type species is renamed *V. sowerbyi* van Aartsen & Corgan, 1996b.

**ZONELLA** Laseron, 1959. TS: *Odostomia (Turbonilla?) amoebaea* Watson, 1885 (OD). = **VISMA** Dall & Bartsch, 1904 (This work).

## CINGULININAE

Author: Saurin, 1959

Type: *Cingulina* A. Adams, 1860g.

See Corgan & van Aartsen (1998b)

**CINGULINA** A. Adams, 1860g. TS: *C. circinata* A. Adams, 1860g (M). See van Aartsen (1994).

**CINCTIGUA** Laseron, 1951. TS: *Cingulina diaphana* Verco, 1906 (OD).

**CINCTIUGA** Salisbury, 1954. Err. typ. pro **CINCTIGUA** Laseron, 1951.

**COEMANSIA** Briart & Cornet, 1873. TS: *C. conica* Briart & Cornet, 1873 (OD).

**PARACINGULINA** Nomura, 1936. TS: *Turbonilla triarata* Pilsbry, 1904 (OD).

**POLYSPIRELLA** Carpenter in Gould, 1861. TS: *Chebnitzia trachealis* Gould, 1861 (M). Not a synonym of **CINGULINA** A. Adams, 1860g. See van Aartsen & Corgan (1996a:157, 158).

**PSEUDOCINGULINA** Nomura, 1936. *Lapsus calami* for *Paracingulina* Nomura, 1936.

**PUNCTICINGULINA** Nomura, 1939. TS: *Cingulina puncticingulata* Nomura, 1938 (OD).

## TURBONILLIDAE sensu lato

**ATOMISCALA** DeBoury, 1909. TS: *Scalaria gosseleti* Briart & Cornet, 1873 (M). See Warén (1989).

**HAMARILLA** Eames & Wilkins, 1957. TS: *H. bicarinata* Eames & Wilkins, 1957 (M).

**PSEUDOGRAPHIS** Mifsud, 1998. TS: *P. cachiai* Mifsud, 1998 (M). Renamed **KEJDONIA** not Balinski, 1989. Mifsud, 1999.

**RISSOPSETIA** Dell, 1956. TS: *R. maoria* Dell, 1956 (OD). See Warén (1989).

## PROBLEM TAXA

Pyramidelloideans of uncertain familial position or of uncertain legality.

**BIDENTATA** de Castellanos, 1982. TS: *Odostomia (B.) nova* de Castellanos, 1982 (M). The type specimen of the type species may have a genetic flaw, producing a bidentate *Odostomia*. If this is true, *Bidentata* does not merit genus-group status. The holotype of *Odontostoma biplicata* Hedley (1899b: 577), Australian National Museum # 5659, is a bidentate *Odostomia*. They may be common.

**CRYPTOPOLYPTYCHIA** Gougerot, 1968. TS: *C. odontostomoides* Gougerot, 1968 (M). Difficult to place.

**LAEVISELICA** Gougerot & Le Renard, 1977. TS: *Lacunodon bidens* Cossmann, 1892 (M). Difficult to place.

**LYSACME** Dall & Bartsch, 1904. TS: *Odostomia (?? Chrysallid) clausiliformis* Carpenter, 1857 (OD). The type specimen of the type species seems too exfoliated to interpret.

**OOPRIAMUS** Vaught, 1989. Err. typ. pro **OOPYRAMIS** Thiele, 1930.

**OOPYRAMIS** Thiele, 1930. TS: *O. biplicata* Thiele, 1930 (M). See van Aartsen & Corgan (1996c). Difficult to place.

**SULCORINELLA** Dall & Bartsch, 1904. TS: *Pyramidella (S.) dodona* Dall & Bartsch, 1904 (OD). The name *Sulcorinella* has



been used inconsistently, perhaps because the type specimen of the type species is unillustrated.

#### ILLEGAL GENUS-GROUP NAMES

**OBELISCUS** Anonymous [de Calonne, often attributed to Humphreys], 1797, fide International Commission on Zoological Nomenclature, 1956: 211. A rejected name. TS: *Trochus dolabratus* Linné, 1758 (SD: J. E. Gray, 1847). Dance (1966) discusses de Calonne and Humphreys.

**PLOTIA** Röding, 1798. TS: *P. lineata* Röding, 1798 [= *Trochus dolabratus* Gmelin, 1791] (SD: Pilsbry & Bequert, 1923). Suppressed against **PYRAMIDELLA** Lamarck, 1799 [Opinion 386 (1956) fide International Trust For Zoological Nomenclature 1958a, 1958b]. Dance (1966) discusses Röding's work.

**STRIOPYRGUS** Bartsch, 1955. TS: *S. hybridus* Bartsch, 1955 (OD). Erected as a "pseudo-genus" for hybrids. Violates the International Code of Zoological Nomenclature (International Trust for Zoological Nomenclature, 1985:5).

#### EXCLUDED GENERA

In influential works, the following taxa were considered to be pyramidelloideans. They are here excluded. At least two dozen other taxa have been more loosely allied with the Pyramidelloidea. For most of these, Vaught (1989) provides a reasonable interpretation.

**AMBROSEA** Stephenson, 1952. TS: *A. nitida* Stephenson, 1952. (M). Affinities uncertain.

**AURICULA** Lamarck, 1799. TS: *Bulla aurismidae* Linné, 1758. (M) = **ELLOBIUM** Röding, 1798. Same type. In **ELLOBIIDAE** (fide Vaught, 1989).

**BACULA** H. & A. Adams, 1863b. TS: *Bacula striolata* H. & A. Adams, 1863b (M). In **EULIMIDAE** (fide Warén, 1984).

**COUTHOUYELLA** Bartsch, 1909. TS: *Pyramis striatula* Couthouy 1839 (OD). In **EPITONIIDAE** (fide Warén, 1980a).

**DAMESIA** Holzapfel, 1888. TS: *Crepidula cretacea* Müller, 1851. (SD: Wenz, 1928). Affinities uncertain.

**ITRUVIA** Stoliczka, 1867. TS: *I. globoides* Stoliczka, 1867 (M). In **ITIENIIDAE** (fide Kollmann & Sohl, 1980).

**LIOCIUM** Gabb, 1869. TS: *L. punctatum* Gabb, 1869 (M). In **RISSOIDAE** (fide Ponder, 1985).

**MORMURELLA** Nomura, 1939. TS: *Turbonilla (Mormula) chitaniana* Yokoyama, 1927 (OD). Probably in **EPITONIIDAE** (fide Makiyama, 1958).

**MUCRONALIA** A. Adams, 1860a. TS: *Mucronalia bicincta* A. Adams, 1860a (M). In **EULIMIDAE** (fide Warén, 1984).

**MURCHISONELLA** Mörch, 1875. TS: *M. spectrum* Mörch, 1875 (OD). In **ACLIDIDAE** (fide Thiele, 1929).

**OBTORTIO** Hedley, 1899a. TS: *Rissoa pyrhaeme* Melvill & Standen, 1896 (OD). In **RISSOIDAE** (fide Melvill, 1910b), in **CERITHIOIDEA** (fide Ponder & Warén, 1988).

**OCEANIDA** De Folin, 1870. TS: *O. graduata* (SD: De Folin in De Folin & Périer, 1871) = **SPIROCLIMAX** Mörch, 1875 = **ATHLEENIA** Bartsch, 1946. In **ACLIDIDAE**. See Lyons (1978) and van Aartsen (1984).

**ODONTOSTOMA** d'Orbigny, 1842. TS: *O. depressa* d'Orbigny, 1842 (OD). = **DESPOENELLA** Baker, 1923 (fide

Neave, 1939b). In **PROSERPINIDAE**. See Thompson (1980).

**ODOSTOMIA** (Fleming) Say, 1817. TS: *O. corticaria* Say, 1817 (M). = "PUPA". In **PUPILLIDAE**. (This work)

**ODOSTOMOPSIS** Whitfield, 1891. TS: *Phasianella abeibensis* Blanckenhorn, 1890 (OD). Affinities uncertain.

**PYRAMIS** Röding, 1798. TS: *P. striata* Röding, 1798 (= young *Strombus pugilis* Linné, 1758) (SD: Winckworth, 1945). Used by Brown (1827) and others for pyramidelloideans that were placed in other genera by later authors.

**SCALANOSTOMA** Bartsch, 1955. Err. typ. pro **SCALENOSTOMA** Deshayes, 1863.

**SCALENOSTOMA** Deshayes, 1863. TS: *S. carinata* Deshayes, 1863 (M). In **EULIMIDAE** (fide Bartsch, 1916; fide Warén, 1980b: 200).

**SPIROCLIMAX** Mörch, 1875. TS: *S. scalaris* Mörch, 1875 (M). = **OCEANIDA** De Folin, 1870 (same type). In **EULIMIDAE**.

**STREPTACIS** Meek, 1872. TS: *S. whitfieldi* Meek, 1872 (M). Yochelson & Saunders (1967) question the placement of this primarily Paleozoic genus. Rejecting it as a pyramidelloidean is reasonable. Affinities uncertain.

**STREPTOCIONELLA** Pfeffer in Martens & Pfeffer, 1886. TS: *S. singularis* Pfeffer in Martens & Pfeffer, 1886 (SD). See Dell (1990: 246). Affinities uncertain.

**SUBEULIMA** Souverbie, 1875. TS: *S. lamberti* Souverbie, 1875 (M). = **SCALENOSTOMA** Deshayes, 1863 (fide Bartsch, 1916: 73); = **BACULA** H. & A. Adams, 1863 (fide Warén, 1984: 31). In **EULIMIDAE**

**VANESIA** A. Adams, 1861a. TS: *V. trifasciata* A. Adams, 1861a (M). In an unpublished study van Aartsen examined the type. It is probably in the **THIARIDAE**.

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In the course of pyramidelloidean studies that in part predate this text, the authors examined type or reference specimens during visits to the following 14 institutions: Academy of Natural Sciences of Philadelphia; Australian National Museum, Sydney; Auckland Institute, New Zealand; Natural History Museum, London; Canterbury Museum, New Zealand; Hebrew University Museum, Jerusalem; Museo Civico di Zoologia, Rome; Muséum National d'Histoire Naturelle, Paris; National Museum of Wales, Cardiff; Paleontological Research Institution, New York; San Diego Natural History Museum, California; Swedish Museum of Natural History, Stockholm; U.S. National Museum,



Washington, D.C.; Zoological Museum of the Russian Academy of Sciences, St. Petersburg. In addition, during the course of this study Ms. Jann Thompson, of the Smithsonian, and Dr. George M. Davis, of the Academy of Natural Sciences of Philadelphia, made mail loans of type specimens of species that are types of genera. At various times we also received mail loans of type species that are not the types of genera from several institutions, including the University of California at Berkeley, the Canadian National Museum, and the Canadian Geological Survey.

## SUMMARY AND CONCLUSIONS

Many pyramidelloidean genera are confusing because the first designation of a type species was overlooked or ignored, resulting in different interpretations of the taxon. The odostomiid genus *Strioturbonilla* Sacco, 1892 and the turbonillid genus *Strioturbonilla* Sacco in the sense of Dall & Bartsch, 1903, are the most extreme example. The morphology of several genera has been grossly misinterpreted. Perhaps the greatest confusion has been about the number of teeth present in genera such as *Tiberia* Monterosato, 1875 and *Eulimella* Forbes & MacAndrew, 1846. This impacts concepts of genus-group biogeography and taxonomy, sometimes extending to the family level. Van Aartsen & Corgan here provide a revision of the Tiberiinae Saurin, 1958. Confusion about *Eulimella* Forbes & MacAndrew, did not cloud concepts of the Eulimellinae Saurin, 1958.

Historically, the authorship of some genera as well as dates of publication and other basic data grew confused. *Eulimella*, a genus of large content, is an example of this sort of problem. So are taxa of modest content, such as *Heida* Dall, 1903. In the last half century, a few experts continue to use unnecessary replacement names, such as *Jordanula* Chaster, 1901; illegal names, such as *Plotia* Röding, 1798; and junior synonyms continue to abound. A few names, such as *Evalea* A. Adams, 1860d, are generally misused. The present study, with its abundant citations of critical literature, should constrain confusion about the basic nature of taxa and about the status of genus-group and family-group names.

In the late twentieth century an ideal classification of higher taxa in any phylum is virtually impossible. New techniques for the establishment of phyletic linkages, such as diverse kinds of protein analysis, shake the established order. They may strengthen the ability to recognize monophyletic groups, but within the Pyramidelloidea their potential remains largely unexplored. Even the soft-tissue morphology of most pyramidelloideans remains undescribed. With so little known, any attempt at an orderly arrangement of genera and families may be foolish. Still, a reasonably complex classification, primarily based on shell morphology, seems preferable to a minimal subdivision. Assigning all genus-group taxa to two or three nominal families could only produce polyphyletic assemblages. A more detailed classification should include some monophyletic groups.

Our working model of family-group classification is at least as good as most classifications that are currently used within the Mollusca. This scheme recognizes:

Amathinidae Ponder, 1987; 9 nominal genera + 2 questionable. Anisocyclidae van Aartsen, 1995, 10.

Odostomiidae Pelseener, 1928, 156 + 9.  
 Odostomiinae, 62 + 5  
 Chrysallidinae Saurin, 1958, 87 + 4  
 Odostomellinae Saurin, 1959, 5  
 Cyclostremellinae Moore, 1966, 2  
 Pyramidellidae J. E. Gray, 1840, 19 + 8  
 Pyramidellinae, 16 + 8  
 Sayellinae Wise, 1996, 3  
 Syrnolidae Saurin, 1958, 28  
 Syrnolinae, 25  
 Tiberiinae Saurin, 1958 (here revised by van Aartsen & Corgan), 3  
 Turbonillidae Bronn, 1849, 72 + 4  
 Turbonillinae, 45 + 4  
 Eulimellinae Saurin, 1958, 19  
 Cingulininae Saurin, 1959, 8  
 Problem Taxa (all pyramidelloidean), 7  
 Illegal Genus-Group Names (all pyramidelloidean), 3  
 Excluded Genera, 23  
 Family names, 10  
 Subfamily names, 16  
 Total taxa evaluated, 376

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