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On the Nomenclature and Classification of the Meloidae (Coleoptera)

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Abstract

Forty-three available family-group names (and three unavailable names) in Meloidae are listed as a basis for establishing nomenclatural priority. Available genus-group names, 256 in number, are listed alphabetically with indication of the type species of each; this is followed by a list of 23 names proposed or used at the genus-group level that are unavailable in zoological nomenclature. Finally, a classification of the family Meloidae to the subgeneric level is presented in which names at the family-group and genus-group levels are treated in a manner consistent with the provisions of the International Code of Zoological Nomenclature. This classification recognizes three subfamilies (Eleticinae, Meloinae, and Horiinae), 10 tribes, 15 subtribes, 116 genera, and 66 subgenera. The subtribes Pyrotina and Lydina (properly Alosimina), of the tribe Cerocomini, are combined with the subtribe Lyttina. The tribe Stenoderini, of the subfamily Horiinae, is defined to include *Stenoderes* Eschscholtz. *Epispasta* Selander is transferred from Cerocomini to Meloini. Recently proposed changes in classification at the genus-group level are incorporated. In addition, *Gynapteryx* Fairmaire and Germain is placed in the synonymy of *Picnoseus* Solier; *Afromeloe* Schmidt and *Lampromeloe* Reitter, formerly treated as subgenera of *Meloe* Linnaeus, are elevated to full generic rank; and *Zonitolytta* Pic is reduced to subgeneric rank in *Nemognatha* Illiger.

Introduction

The first part of this work is a chronological list of family-group names in Meloidae in which the type genus of the nominal taxon denoted by each name is specified. The second is an alphabetical list of genus-group names in which the type species of the nominal taxon denoted by each available name is specified. The third is a classification of the Meloidae to the subgeneric level.

Throughout the work the acronym ICZN denotes the International Code of Zoological No-

menclature (International Commission on Zoological Nomenclature 1985).

Family-Group Names in Meloidae

In the present century Wellman (1910a), Borchmann (1917), and Kaszab (1969) have published classifications of the Meloidae to the generic or subgeneric level on a worldwide basis. None of the three paid much attention to the priority of family-group names, nor in general have the many authors who have dealt with restricted segments of the meloid fauna. Kaszab's (1969) method of assigning authorship was particularly confusing. In violation of the ICZN and general practice in zoology, he gave authorship to the first author to use a name at a particular taxonomic level. For example, Eupomphini was credited to Selander (1955b) but Eupomphina to Kaszab (1959) (actually both names belong to LeConte (1862 [1861-62]), who first used a family-group name (Eupomphae) based on *Eupompha* LeConte).

The first family-group names applied to blister beetles were Horiales and Cantharidiae, both proposed by Latreille (1802). Horiales was based on the genus *Horia* Fabricius. Cantharidiae was based on a misapplication of the generic name *Cantharis* Linnaeus (1758), the type genus of the soldier beetle family Cantharidae. This misapplication began with Geoffroy (1762) and continued through most of the 19th century, despite the fact that Geoffroy's unjustified use of *Cantharis* was rejected as early as 1775 by Fabricius, who proposed the name *Lytta* for the taxon in question. Gyllenhal (1810), one of the earliest workers to accept Fabricius' interpretation, did not suggest substituting for Cantharidiae a family-group name based on *Lytta* Fabricius, as a few later authors were to do, but coined the name Meloides, based on *Meloe* Linnaeus (1758). Well before the middle of the 19th

century it was generally accepted that *Horia* Fabricius and its close allies could be placed in the same family with other blister beetles, which came to be known as Cantharidae (the soldier beetles at that time being called Telephoridae) or, less commonly except in North America, as Meloidae. Early in the 20th century the application of *Cantharis* to meloids was finally abandoned, and the family became known universally as Meloidae.

In view of its provenance, Cantharidae (and variants) is not a legitimate family-group name with reference to blister beetles. Further, while the family-group name based on *Horia* has been applied at the subfamily and tribal level, it has never been used to refer to the blister beetles as a whole. In order to legalize retention of the name Meloidae for the blister beetles it will be necessary to apply to the ICZN to give precedence to Meloides Gyllenhal (1810) over Horiales Latreille (1802).

Forty-three available and three unavailable family-group names are listed below chronologically (and within a single work in order of appearance), together with the type genus of the nominal taxon denoted by each name. The unavailable names do not meet the requirements of ICZN Art. 13(a).

Available Names

Horiales Latreille (1802: 182). *Horia* Fabricius (1787).
Meloides Gyllenhal (1810: 481). *Meloe* Linnaeus (1758).
Cerocomatida Leach (1815c: 105). *Cerocoma* Fabricius (1775).
Mylabrites Castelnau (1840: 266). *Mylabris* Fabricius (1775).
Nemognathites Castelnau (1840: 280). *Nemognatha* Illiger (1807).
Lyttoides Solier (1851: 278). *Lytta* Fabricius (1775).
Alosimates Mulsant (1857: 358). *Alosimus* Mulsant (1857).
Zonitaires Mulsant (1857: 372). *Zonitis* Fabricius (1775).
Sitarates Mulsant (1857: 393). *Sitaris* Latreille (1802).
Macrobases LeConte (1862 [1861-62]: 272). *Macrobasis* LeConte (1862 [1861-62]).
Eupomphae LeConte (1862 [1861-62]: 274). *Eupompha* LeConte (1858b).
Phodagae LeConte (1862 [1861-62]: 274). *Phodaga* LeConte (1858b).
Sybarides Wellman (1910a: 221). *Sybaris* Stephens (1832).
Cordylospastides Wellman (1910a: 221). *Cordylospasta* Horn (1875).

Eleticides Wellman (1910a: 221). *Eletica* Dejean (1834 [1833-37]).
Calospastides Wellman (1910a: 221). *Calospasta* LeConte (1862 [1861-62]).
Gynaecomeloides Wellman (1910a: 221). *Gynaecomeloe* Wellman (1910a).
Cysteodemides Wellman (1910a: 221). *Cysteodemus* LeConte (1851).
Apterospastides Wellman (1910a: 221). *Apterospasta* LeConte (1862 [1861-62]).
Horniides Wellman (1910a: 221). *Hornia* Riley (1877).
Derideides Wellman (1910a: 221). *Deridea* Westwood (1875).
Tricraniides Wellman (1910a: 221). *Tricrania* LeConte (1860).
Zonabriini Reitter (1911: 393). *Zonabris* Harold (1879).
Stenoriides Parker & Böving (1924: 32). *Stenoria* Mulsant (1857).
Apalides Parker & Böving (1924: 33). *Apalus* Fabricius (1775).
Tetraonycidae Böving & Craighead (1931: 59). *Tetraonyx* Latreille (1805).
Epicautini Denier (1935b: 151). *Epicauta* Dejean (1834 [1833-37]).
Meloetypylini Borgmeier (1937: 248). *Meloetypylus* Waterhouse (1872).
Tegroderini Dillon (1952: 373). *Tegrodera* LeConte (1851).
Pyrotini MacSwain (1956: 67). *Pyrota* Dejean (1834 [1833-37]).
Ertliini Kaszab (1959: 71). *Ertlia* Borchmann (1942) (preoccupied).
Spasticini Kaszab (1959: 72). *Spastica* Lacordaire (1859).
Megetrina Kaszab (1959: 80). *Megetra* LeConte (1859).
Lydina Kaszab (1959: 87). *Lydus* Latreille (1803).
Leptopalpina Kaszab (1959: 102, fig. 97). *Leptopalpus* Guérin-Méneville (1829-44).
Calydina Kaszab (1960: 134). *Calydus* Reitter (1896).
Prolyttini Selander (1960b: 25). *Prolytta* Kaszab (1959).
Protomeloini Abdullah (1965b: 43). *Protomeloe* Abdullah (1965).
Xenospastina Selander (1966: 467). *Xenospasta* Selander (1966).
Anthicoxenina Selander (1966: 470). *Anthicoxenus* Fairmaire and Germain (1860).
Eospastina Selander (1966: 474). *Eospasta* Selander (1966).
Ertlianina Selander (1966: 478). *Ertliana* Selander (1964) (replacement name for *Ertlia* Borchmann).
Morphozonitini Kaszab (1969: 242). *Morphozonitis* Pic (1922).

Unavailable Names

Cissitini Kaszab (1966a: 187). *Cissites* Latreille (1804c).
Nomen nudum under ICZN Art. 13(a).

Palaestrina Kaszab (1969: 244). *Palaestra* Castelnau (1840). *Nomen nudum* under ICZN Art. 13(a). Kaszab (1969) gave the date for *Palaestrina* as 1959, but I cannot find the name in his work before 1969.

Stenoderini Selander (1964b: 1057). *Stenodera* Eschscholtz (1818). *Nomen nudum* under ICZN Art. 13(a).

Genus-Group Names in Meloidae

Aksentjev (1988) recently listed the nominal genus-group taxa in Meloidae and their associated type species in a very valuable contribution that considerably extends a much earlier list by Wellman (1910b). In addition to correcting authorship and date of publication for several names, Aksentjev brought to light important cases of homonymy and designated type species for several genera and subgenera. Unfortunately, the work contains numerous bibliographic and typographic errors, the former evidently attributable in many cases to failure to consult original sources. In addition, there are several errors of omission and several points of interpretation that I regard as incorrect or questionable. To make matters worse, an English translation (1989, *Entomological Review*, vol. 68), which is the version more likely to be consulted by future workers, introduces many additional typographic errors. Rather than attempt to record these errors and their corrections, I present here a revised list. In doing so I take the opportunity bring the list up-to-date, to incorporate full literature citations, and to make a clear distinction between available names, which correspond to nominal genus-group taxa, and unavailable names, which are outside of zoological nomenclature, as defined by articles of the ICZN. In addition, I cite both valid and invalid designations of type species.

Available and unavailable names (under the provisions of the ICZN) are listed separately. Unavailable names are of four types. Four names published before 1931 are *nomina nuda* because of failure to conform to the provisions of Art. 12 of the ICZN, since they were proposed without description, definition, or indication. Seventeen names published after 1930 are *nomina nuda* because of failure to conform to the provision of Art. 13(b) of the ICZN, since they were proposed without fixation of type species. One name of Latreille is included in the list because of the interpretation that it was not fully latinized. One name of Geoffroy has been excluded from zoological nomenclature by the ICZN.

Aksentjev (1988: 571) proposed to transfer *Copobaenus* Fairmaire and Germain (1863: 263) from Meloidae to Pedilidae. Although one meloid species [*Spastica bicolor* (Pic 1896)] was described originally in *Copobaenus*, the genus itself was named in the family Pedilidae and has never been assigned to the Meloidae.

Goetymes Pascoe (1863: 47) and *Sitarida* White (1846: 508) were transferred to the Rhipiphoridae by Selander (1957).

Thambospasta Werner (1974: 148), with *Thambospasta howdeni* Werner (1974: 151, figs. 1-17) as type species by original designation, was transferred to Anthicidae by Aksentjev (1988: 580) without comment. Werner's argument for including the genus in the Meloidae, rather than the Anthicidae is, in my opinion, not convincing. In most characters, including those of the mouthparts, legs, hindwing venation, and male genitalia, the genus is anthicid-like, whereas the only evidence for placing the genus in the Meloidae is the shape of the head.

Available Names

The type species is indicated immediately after the name of the nominal genus-group taxon. Names of Kuzin (1954) are given priority over those of Pardo Alcaide (1954) following Aksentjev (1988), who produced evidence that Kuzin's work appeared earlier in the year than Pardo Alcaide's.

Acrolytta Kaszab (1959: 111). *Lytta binotatithorax* Pic (1927: 28), by original designation.

Actenodia Castelnau (1840: 268). *Actenodia guttata* Castelnau (1840: 268) = *Meloe decemguttata* Thunberg (1791 [1781-91]: 115), by monotypy.

Adicolytta Selander (1960b: 137). *Cantharis mutilata* Horn (1875: 155), by original designation.

Aeneopyrota Kaszab (1959: 108). *Cantharis viridipennis* Burmeister (1865: 131), by original designation.

Afrolytta Kaszab (1959: 110). *Lytta carneola* Péringuey (1892: 125), by original designation.

Afromeloe Schmidt (1913: 332). *Meloe angulatus* Leach (1815b: 247), by subsequent designation (Aksentjev 1988: 569). Schmidt credited *M. angulatus* incorrectly to Brandt and Erichson.

Allendesalazaria Martínez de la Escalera (1910: 379). *Allendesalazaria nymphoides* Martínez de la Escalera (1910: 380), by monotypy.

Alosimus Mulsant (1857: 358). *Meloe syriacus* Linnaeus (1758: 419), by monotypy.

- Alveomeloe** Pripisnova (1987: 41). *Meloe* (*Alveomeloe*) *tadzhikistanicus* Pripisnova (1987: 41, figs. 1-3), by original designation.
- Ammabris** Kuzin (1954: 359). *Mylabris elegans* Olivier (1811: 101), by original designation. Name used prematurely by Kuzin (1953: 133) without fixation of a type species.
- Anchomeloe** Iablokov-Khnzoryan (1983: 88). *Meloe autumnalis* Olivier (1795, no. 45, p. 7), by monotypy.
- Androfoveata** Pardo Alcaide (1954: 81). *Mylabris duodecimpunctata* Oliver (1811: 98), by original designation. Name used earlier by Pardo Alcaide (1950: 76[16]) without fixation of a type species.
- Anisarthrocera** Semenov (1895b: 517). *Rhampholyssa batesi* Marseul (1871: 416), by original designation. Aksentjev (1988: 570) said that the type species was fixed by monotypy, but Semenov designated it in a footnote.
- Anomalonyx** Saylor (1940: 46). *Lytta fumosa* Germar (1824: 173), by fixation as type species of *Anomalonyx* Denier. Replacement name for *Anomalonyx* Denier.
- Anomalonyx** Denier (1935b: 161 (footnote)). *Lytta fumosa* Germar (1824: 173), by original designation. Preoccupied by *Anomalonyx* Weise (1903: 334) (Coleoptera, Chrysomelidae) and *Anomalonyx* Moser (1921: 156) (Coleoptera, Scarabaeidae).
- Anthicoxenus** Fairmaire and Germain (1860: 2). *Anthicoxenus nigroplagiatus* Fairmaire and Germain (1860: 2), by monotypy. Invalid designation: *Anthicus lagenicollis* Fairmaire and Germain (1860: 2), not an originally included species, by Fairmaire and Germain (1863: 243).
- Apalus** Fabricius (1775: 127). *Meloe bimaculatus* Linnaeus (1761: 228), by monotypy.
- Apterospasta** LeConte (1862 [1861-62]: 272). *Lytta segmenta* Say (1823 [1823-24]: 303), by subsequent designation (Wellman 1910b: 393). Although Wellman stated erroneously that the type species of *Apterospasta* was fixed by monotypy, his citation of *Lytta segmenta* Say is a valid designation.
- Argabris** Kuzin (1954: 362). *Meloe ocellata* Pallas (1773: 721), by original designation. Name used prematurely by Kuzin (1953: 138) without fixation of a type species.
- Arithmema** Chevrolat (1829-44: 131, legend for pl. 35, fig. 2). *Meloe decemguttata* Thunberg (1791 [1781-91]: 115), fixed by monotypy. According to Guérin-Méneville (1829-44: 132), in some copies of pl. 35 the legend for fig. 2 was given incorrectly as "*Hycleus* [sic] 10-guttata" (rather than *Arithmema* 10-guttata) and the legend for fig. 3 as "*Aritnoema* [sic] 12-punctata" (rather than *Hycleus* 12-punctata). As incorrect spellings of *Hycleus* Latreille and *Arithmema* Chevrolat, respectively, *Hycleus* and *Aritnoema* are not available names. Consequently, Aksentjev's (1988: 570) use of *Aritnoema* in place of *Arithmema* is incorrect.
- Asiolytta** Kaszab (1962: 295). *Lytta badakschanica* Kaszab (1958: 259), by original designation.
- Berberomeloe** Bologna (1989: 360). *Meloe majalis* Linnaeus (1758: 419), by original designation.
- Bokermannia** Martínez (1963: 91). *Bokermannia aristotelesi* Martínez (1963: 94, figs. 1-4), by original designation.
- Brachyspasta** Van Dyke (1928: 451). *Brachyspasta wickhami* Van Dyke (1928: 452, pl. 16, fig. 10) = *Cordylospasta fulleri* Horn (1875: 152), by original designation.
- Brasiliota** Kaszab (1959: 105). *Lytta herculeana* Germar (1824: 172), by original designation.
- Cabalia** Mulsant and Rey (1858: 154). *Lytta segetum* Fabricius (1792: 84), by subsequent designation (Wellman 1910b: 392). Escherich's (1894: 293) statement, "Der Typus der *Cabalia*-Arten ist durch die Gedrungenheit, Untersetztheit ausgezeichnet," which appears in a description of *Cabalia segetum*, is evidently the basis for Wellman's (1910b: 392) erroneous attribution of the designation of type species to Escherich, despite the fact that Wellman cited a different page number (p. 45). "Typus" in this case clearly referred to the habitus or general form of the body of species of the genus.
- Caloenas** Reitter (1889: 34). *Caloenas pulcher* Reitter (1889: 35), by monotypy. Preoccupied by *Caloenas* G. R. Gray (1840: 59) (Aves).
- Calospasta** LeConte (1862 [1861-62]: 273). *Lytta elegans* LeConte (1853: 341), by monotypy.
- Calydabris** Kaszab (1960: 128, 133). *Calydus allousei* Kaszab (1960: 131, figs. 3, 4, 6, 7), by original designation.
- Calydus** Reitter (1896: 192). *Caloenas pulcher* Reitter (1889: 35), by fixation as type species of *Caloenas* Reitter. Replacement name for *Caloenas* Reitter.
- Causima** Dejean (1834 [1833-37]: 226). *Lytta vidua* Klug (1825: 437, pl. 41, fig. 7), by monotypy. In addition to the available name *Lytta vidua* Klug, Dejean included in *Causima* two nomina nuda. Invalid designations: *Lytta vidua* Klug by Wellman (1910b: 393), who credited the genus to Lacordaire (1859), and by Werner (1945: 425) (as "*Cantharis vidua* Klug, 1825"), who credited the genus to Dejean (1837: 248).
- Ceriselma** Borchmann (1942: 700). *Ceriselma methneri* Borchmann (1942: 700), by original designation.
- Cerocoma** Fabricius (1775: 81). *Meloe schaefferi* Linnaeus (1758: 420), by monotypy. Aksentjev (1988) credits the name to Geoffroy (1762), citing an unidentified opinion of the ICZN. As a matter of fact, the name *Cerocoma* was proposed by Geoffroy (1762: 357) in a work that has been placed, by Opinion 228 of the ICZN, in the Official Index of Invalid and

- Rejected Works in Zoology (Melville and Smith 1987:318).
- Cerocomina** Kaszab (1951: 259). *Cerocoma vahli* Fabricius (1787: 217), by original designation.
- Ceroctis** Marseul (1870: 168). *Mylabris trizonata* Reiche (1865: 631), by subsequent designation (Pardo Alcaide 1954: 61). *Mylabris trizonata* was included in *Ceroctis* by Marseul (1870) as a junior synonym of *M. corynoides* Reiche (1865: 631). *Invalid designations*: *Meloe capensis* Linnaeus (1764: 104) by Kuzin (1954: 366) and *Mylabris serricornis* Gerstaecker (1854: 694) by Wellman (1910b: 396). Neither species was originally included in the genus.
- Chalcabris** Kuzin (1954: 346). *Meloe festiva* Pallas (1773: 721), by original designation. Name used prematurely by Kuzin (1953: 103) without fixation of a type species.
- Chiromeloe** Reitter (1911: 390). *Meloe nigropilosellus* Reitter (1900: 56), by monotypy.
- Chrysabris** Kuzin (1954: 348). *Meloe trifascis* Pallas (1773: 721), by original designation. Name used prematurely by Kuzin (1953: 115) without fixation of a type species.
- Cissites** Latreille (1804a: 154, 199). *Cucujus maculatus* Swederus (1787: 199, pl. 8, fig. 8), by monotypy. Aksentjev (1988: 571) established, by reference to Osgood (1914) and Dupuis (1986), that the present description of *Cissites* predates by several months the more widely known description by Latreille (1804b: 364). *Invalid designation*: Gahan (1908: 199, 203) designated *Cucujus maculatus* Swederus (1787) as type species.
- Cnestocera** Thomson (1859: 124). *Meloe proscarabaeus* Linnaeus (1758: 419), by original designation. Designation attributed erroneously to Pinto and Selander (1970) by Aksentjev (1988: 571).
- Cochliophorus** Escherich (1891: 16). *Cochliophorus reitteri* Escherich (1891: 16), by monotypy.
- Coelomeloe** Reitter (1911: 389). *Meloe tucci* Rossi (1790: 238), by monotypy.
- Cordylospasta** Horn (1875: 152). *Cordylospasta fulleri* Horn (1875: 152), by monotypy.
- Corioligiton** Marseul (1879: 65). *Criolis hilaris* Marseul (1879: 64), by monotypy.
- Coryna** Billberg (1813: 73). *Mylabris argentata* Fabricius (1792: 90), by monotypy. Preoccupied by *Coryna* Bosc (1802: 239) (Coelenterata) and *Coryna* Wolff (1811: vi) (Hemiptera).
- Criolis** Mulsant (1858: 239). *Criolis guerini* Mulsant (1858: 240), by monotypy.
- Croscherichia** Pardo Alcaide (1950: 63[3]). *Mylabris circumflexa* Chevrolat (1837: 273), by monotypy.
- Ctenopus** Fischer von Waldheim (1824 [1823-24]: 174). *Ctenopus melanogaster* Fischer von Waldheim (1824 [1823-24]: 176, pl. 38, fig. 1), by monotypy.
- Cyaneolytta** Péringuey (1909: 249). *Lytta signifrons* Fahraeus (1870: 352), by subsequent designation (Selander 1986: 98). *Invalid designation*: *Cantharis subcoriacea* Mäklin (1875: 607) = *Lytta resplendens* Castelnau (1840: 273) by Aksentjev (1988: 571).
- Cylindrothorax** Escherich (1896a: 28). *Lytta angusticollis* Haag-Rutenberg (1880: 62), by fixation as type species of *Sagitta* Escherich. Replacement name for *Sagitta* Escherich.
- Cysteodemus** LeConte (1851: 158). *Cysteodemus armatus* LeConte (1851: 158), by subsequent designation (Wellman 1910b: 391).
- Decapotoma** Voigts (1902: 177). *Meloe lunata* Pallas (1782 [1781-98]: 79, pl. E, fig. 5), by fixation as type species of *Decatoma* Dejean. Replacement name for *Decatoma* Dejean.
- Decatoma** Dejean (1821: 74). *Meloe lunata* Pallas (1782 [1781-98]: 79, pl. E, fig. 5), by monotypy. Preoccupied by *Decatoma* Spinola (1811: 151) (Hymenoptera).
- Denierella** Kaszab (1952: 81). *Cantharis incompleta* Fairmaire (1896: 52), by original designation.
- Denierota** Kaszab (1959: 105). *Lytta kraatzii* Haag-Rutenberg (1880: 22) = *Lytta sanguineoguttata* Haag-Rutenberg (1880: 40), by original designation.
- Denierus** Pic (1913b: 175). *Zonabris (Mylabris) stanleyana* Duvivier (1890: cxv), by monotypy.
- Deratus** Motschulsky (1848: 493). *Meloe necydalea* Pallas (1773: 720), by monotypy. *Deratus* Motschulsky (1848) was proposed for *M. necydalea* Pallas and two *nomina nuda*. *Invalid designation*: *Deratus tibialis* Motschulsky (1872: 51) by Wellman (1910b: 393), who credited the genus incorrectly to Motschulsky (1872).
- Deridea** Westwood (1875: 226). *Deridea curculionides* Westwood (1875: 227, pl. 7, fig. 4), by monotypy.
- Desertimeloe** Kaszab (1964: 321). *Meloe centripubens* Reitter (1897: 223), by original designation.
- Diaphorocera** Heyden (1863: 126). *Diaphorocera hemprichi* Heyden (1863: 127, pl. 4, fig. 7), by monotypy.
- Dices** Dejean (1821: 74). *Cerocoma ocellata* Olivier (1791: 397), by monotypy. *Invalid designation*: *Cerocoma ocellaris* Olivier (1795) (a junior synonym of *C. ocellata*) by Aksentjev (1988: 572).
- Dictyolytta** Selander (1960a: 84). *Cantharis philippii* Reed (1873: 208), by original designation.
- Eletica** Dejean (1834 [1833-37]: 224). *Lytta rufa* Fabricius (1801: 78) = *Lytta bipustulata* Fabricius (1801: 78), by monotypy. *Invalid designation*: *Lytta rufa* Fabricius by Selander (1966: 477), who erroneously attributed the designation to Wellman (1910b).
- Eolydus** Denier (1913: 231). *Eolydus atrocoeruleus* Denier (1913: 231) = *Alosimus atripes* Pic (1905), by monotypy.
- Eospasta** Selander (1966: 474). *Spastica inconstans* Fairmaire and Germain (1863: 265), by original designation.

- Epicauta** Dejean (1834 [1833-37]: 224). *Meloe erythrocephalus* Pallas (1771: 466), by subsequent designation (Werner 1945: 425). Wellman (1910b: 396), who attributed the genus to Redtenbacher (1845), suggested that this species might serve as type species but did not actually make a designation.
- Epispasta** Selander (1960a: 82). *Lytta abbreviata* Klug (1825: 439), by original designation.
- Ertlia** Borchmann (1942: 702). *Ertlia fasciata* Borchmann (1942: 703), by monotypy. Preoccupied by *Ertlia* Aurivillius (1907: 124) (Coleoptera, Cerambycidae).
- Ertliana** Selander (1964a: 11). *Ertlia fasciata* Borchmann (1942: 703), by fixation as type species of *Ertlia* Borchmann. Replacement name for *Ertlia* Borchmann.
- Eumylabris** Kuzin (1954: 355). *Mylabris decempunctata* Fabricius (1792: 89), by original designation. Name used prematurely by Kuzin (1953: 126) without fixation of a type species.
- Eupompha** LeConte (1858b: 21). *Eupompha fissiceps* LeConte (1858b: 21), by monotypy.
- Eurymeloe** Reitter (1911: 391). *Meloe brevicollis* Panzer (1793: 15), by subsequent designation (Pinto and Selander 1970: 107).
- Euzonabris** Kuzin (1954: 357). *Meloe cichorii* Linnaeus (1758: 419), by original designation.
- Euzonitis** Semenov (1893: 276 (footnote)). *Apalus sexmaculatus* Olivier (1789: 166), by original designation. *Invalid designation: Apalus sexmaculatus* Olivier by Wellman (1910b: 392), who attributed the designation to Escherich (1897: 103).
- Excavatomeloe** Pliginský (1935: 323). *Meloe excavatus* Leach (1815b: 248, pl. 18, fig. 3), by monotypy.
- Filalia** Martínez de la Escalera (1906: 162). *Filalia cerambycina* Martínez de la Escalera (1906: 161), by monotypy.
- Gineremia** Pardo Alcaide (1961: 92). *Stenoria saharica* Pardo Alcaide (1961: 92, fig. 1), by original designation.
- Glaphyrolytta** Martínez (1958: 77). *Cantharis viridipennis* Burmeister (1865: 131), by original designation.
- Glasunovia** Semenov (1895a: 355). *Glasunovia caspica* Semenov (1895a: 360), by subsequent designation (Wellman 1910b: 396). *Invalid designation: Glasunovia caspica* Semenov by Aksentjev (1988: 573).
- Glaucabris** Kuzin (1954: 350). *Mylabris hieracii* Graells (1849: 621), by original designation.
- Gnathium** Kirby (1818a: 425). *Gnathium francilloni* Kirby (1818a: 426, pl. 22, fig. 6), by monotypy.
- Gnathonemula** Aksentjev (1981: 862). *Gnathonemula gracilis* Aksentjev (1981: 863, figs. 7-9), by original designation.
- Gnathospasta** Horn (1875: 154). *Gnathospasta mimetica* Horn (1875: 154), by monotypy.
- Gnathospastoides** Fletcher (1914: 302). *Lytta rouxii* Castelnau (1840: 274), by monotypy.
- Gorizia** Pardo Alcaide (1954: 61). *Mylabris duodecimpunctata* Olivier (1811: 98), by original designation. *Gorizia* was proposed initially as a subgenus of *Mylabris*, to include several species, without designation of a type species (Pardo Alcaide 1950: 64[4]).
- Gynaecomeloe** Wellman (1910a: 217). *Megetra opaca* Horn (1868: 139), by original designation.
- Gynapteryx** Fairmaire and Germain (1863: 260). *Gynapteryx flavocinctus* Fairmaire and Germain (1863: 261), by monotypy.
- Halosimus** Gemminger and Harold (1870: 2157). *Unjustified emendation of Alosimus* Mulsant.
- Hapalus** Illiger (1801: 138). *Unjustified emendation of Apalus* Fabricius.
- Henous** Haldeman (1852: 377). *Henous techanus* Haldeman (1852: 377, pl. 9, figs. 12-14) = *Meloe conferta* Say (1824 [1823-24]: 281), by monotypy.
- Hoplozonitis** Blackburn (1892: 228). *Hoplozonitis mira* Blackburn (1892: 229), by monotypy.
- Horia** Fabricius (1787: 164). *Lymexylon testaceum* Fabricius (1781: 256) (misidentification) = *Horia fabriciana* Betrem (1929: xxvii), by subsequent designation (Betrem 1929: xxvii). Fabricius (1787) described *Horia* to include two nominal species: *Lymexylon testaceum* Fabricius (1781) and *L. dermestoides* Fabricius (1781) (the latter not a meloid). Both Gahan (1908: 203) and Betrem (1929: xxvii) argued that *L. testaceum* Fabricius (1781) and *Horia testacea* of Fabricius (1787: 164) referred to two different species. Following the custom of their era in such matters, they interpreted the latter name as a junior homonym of the former, rather than as a misuse of the name based on a misidentification. Consequently, Betrem (1929: xxvii) proposed a replacement name for *H. testacea* of Fabricius (1787): *Horia fabriciana*. Later, under the heading *H. fabriciana*, Betrem (1932: 90) designated a male and a female in the Fabricius' collection (also mentioned in the 1929 work) as "hololectotype" and "allolectotype," respectively. One supposes that these were intended as lectotypes of *Horia testacea* of Fabricius (1787), but this is not clear in Betrem's work. Actually, Betrem (1929) described a new species, *Horia fabriciana*, based on the male and female in the Fabricius collection misidentified as *H. testacea* by Fabricius (1787). The lectotype designations can therefore refer only to *H. fabriciana*. *Invalid designations: Cucujus maculatus* Swederus (1787: 199, pl. 8, fig. 8) by Latreille (1810: 430); "*Horia testacea*, Fab., 1787" (Gahan 1908: 203), *Cucujus maculatus* Swederus (1787: 199, pl. 8, fig. 8) by Blanchard (1836-49, pl. 54, fig. 4). Latreille (1804b: 364) said that *Horia testacea* ought to be the type but did not designate it as such.

- Hornia** Riley (1877: 564). *Hornia minutipennis* Riley (1877: 564, fig. 40g, pl. 5, fig. 13), by monotypy.
- Hycleus** Latreille (1817: 317). *Mylabris argentata* Fabricius (1792: 90), by subsequent designation (Blanchard 1836-49, pl. 54, fig. 6).
- Iletica** Gemminger and Harold (1870: 2145). *Unjustified emendation of Eletica* Dejean.
- Indiolytta** Selander (1960b: 27). *Lytta apicalis* Haag-Rutenberg (1880: 71) = *Lydus melanurus* Hope (1831: 32), by monotypy.
- Iodema** Pascoe (1862: 57). *Iodema clarki* Pascoe (1862: 57, pl. 3, fig. 1) = *Tetraonyx violaceipennis* Lucas (1857: 146), by monotypy.
- Iselma** Haag-Rutenberg (1879: 402). *Meloe ursus* Thunberg (1791 [1781-91]: 107), by subsequent designation (Wellman 1910b: 392).
- Iselmeletica** Kaszab (1966b: 357). *Iselmeletica flabellicornis* Kaszab (1966b: 358, figs. 12, 26), by monotypy.
- Isopentra** Mulsant and Rey (1858: 180). *Lytta megaloccephala* Gebler (1817: 318), by subsequent designation (Werner 1945: 426). Werner credited the type designation to Wellman (1910b: 396), who merely suggested that *L. megaloccephala* might serve as type species.
- Jodema** Gemminger and Harold (1870: 2146). *Unjustified emendation of Iodema* Pascoe (1862).
- Lachnabris** Kuzin (1953: 117). *Mylabris mannerheimi* Gebler (1845: 103), by monotypy.
- Lachnabris** Kuzin (1954: 352). *Mylabris mannerheimi* Gebler (1845: 103), by monotypy. Junior homonymic synonym of *Lachnabris* Kuzin (1953).
- Lagorina** Mulsant and Rey (1858: 150). *Lytta sericea* Waltl (1835: 76), by subsequent designation (Wellman 1910b: 392). Wellman credited the type designation to Escherich (citing "Escherich, l.c., p. 20," apparently in reference to Escherich (1894)), but I have been unable to find such a designation in any of his works.
- Lampromeloe** Reitter (1911: 388). *Meloe variegatus* Donovan (1793: 81, pl. 67), by subsequent designation (Aksentjev 1988: 574).
- Lasiomeloe** Reitter (1911: 389). *Meloe olivieri* Chevrolat (1833: [1], pl. 57), by monotypy.
- Leonia** Dugès (1889: 211). *Leonia rileyi* Dugès (1889: 211, fig. 47), by monotypy. Preoccupied by *Leonia* Baird (1850: 34) (Mollusca, Cyclophoridae). *Leonia* J. E. Gray (1840: 153), cited by Aksentjev (1988: 574) (as "Gray, 1840. Syn. Cont. Brit. Mus., ed. 42:149") is a *nomen nudum*.
- Leonidia** Cockerell (1900: 11). *Leonia rileyi* Dugès (1889: 211, fig. 47), by fixation as type species of *Leonia* Dugès. Replacement name for *Leonia* Dugès.
- Leptopalpus** Guérin-Ménéville (1829-44, legend for pl. 35, fig. 13). *Leptopalpus chevrolati* Guérin-Ménéville (1829-44, legend for pl. 35, fig. 13) = *Zonitis rostrata* Fabricius (1792: 50), by monotypy. *Invalid designation*: Guérin-Ménéville (1829-44: 136) designated *Zonitis rostrata* Fabricius (1792: 50) as type species, but by Guérin-Ménéville's own statement the generic name first appeared in the legend for plate 35, wherein the type species (by monotypy) was identified as *L. chevrolati*.
- Libycisca** Kuzin (1954: 369). *Mylabris sanguinolenta* Olivier (1811: 95), by original designation.
- Linsleya** MacSwain (1951: 58). *Lytta convexa* LeConte (1853: 336), by original designation.
- Linsleyina** Selander (1955a: 11). *Lytta sphaericollis* Say (1824: 7, pl. 3, fig. 4), by original designation.
- Listromeloe** Reitter (1911: 390). *Meloe hungarus* Schrank (1776: 71), by monotypy.
- Lydoceras** Marseul (1870: 12). *Mylabris fasciata* Fabricius (1775: 261), by monotypy.
- Lydoenas** Reitter (1894: 51). *Lydus pygmaeus* Dokhtouroff (1890: 180, pl. 2, fig. 70), by original designation.
- Lydomorphus** Fairmaire (1882: 85). *Lydomorphus cinnamomeus* Fairmaire (1882: 86), by original designation.
- Lydopsis** Martínez de la Escalera (1914: 393). *Lydus susicus* Martínez de la Escalera (1914: 393), by monotypy.
- Lydulus** Semenov (1893: 265). *Lydulus albopilosus* Semenov (1893: 267), by subsequent designation by Wellman (1910b: 394), who stated incorrectly that the type species was fixed by monotypy.
- Lydus** Dejean (1821: 75). *Meloe algiricus* Linnaeus (1767: 681), by subsequent designation (Blanchard 1836-49, pl. 54, fig. 8). *Invalid designation*: Wellman (1910b: 392) said that Escherich (1896b: 193) designated "*algiricus* Linné, 1758 [sic]" as type species, but I find no such designation in Escherich's work.
- Lytta** Fabricius (1775: 260). *Meloe vesicatoria* Linnaeus (1758: 419), by subsequent designation (Wellman 1910b: 392). Although Escherich's (1894: 267) statement (cited erroneously by Wellman as appearing on p. 19), "Ausser *Epicauta* Redt. versuchte man noch andere von dem *Lytta vesicatoria*-Typus abweichende Formen von *Lytta* zu trennen," is not a designation of type species, Wellman's citation itself constitutes such a designation.
- Lyttamorphia** Kaszab (1959: 106). *Epicauta reichenbachii* Kirsch (1866: 208), by original designation.
- Lyttolydulus** Reitter (1913: 662). *Lyttolydulus suturalis* Reitter (1913: 662) = *Lytta simplicicornis* Pic (1899: 278), by monotypy. Published originally as *Lyttalydulus*, later cited by Reitter (1915: 124) as an incorrect spelling.
- Lyttomeloe** Denier (1920: 332). *Meloe saulcyi* Guérin-Ménéville (1834: [1], pl. 100), by monotypy.
- Lyttonyx** Marseul (1876: 36). *Cantharis bilateralis* Marseul (1876: 35), by monotypy.
- Macrobasis** LeConte (1862 [1861-62]: 272). *Lytta albida* Say (1824 [1823-24]: 305), by subsequent

- designation (Wellman 1910b: 396). *Lytta albida* Say was one of the first species assigned to *Macrobasis* by name (LeConte 1863 [1863-66b]).
- Maculicauta** Dillon (1952: 416). *Epicauta stuarti* LeConte (1868: 54), by original designation.
- Mauritabris** Pardo Alcaide (1969: 375). *Mylabris tenebrosa* Castelnau (1840: 270), by original designation.
- Megabris** Des Gozis (1881: cxiii). *Meloe cichorii* Linnaeus (1758: 419), by fixation as type species of *Mylabris* Fabricius. *Invalid replacement name for Mylabris* Fabricius.
- Megalytta** Selander (1960a: 83). *Cantharis inflaticeps* Beaugard (1889: ccxii), by original designation.
- Meganemognatha** Enns (1956: 721). *Nemognatha lurida* LeConte (1853: 345), by original designation.
- Megatrachelus** Motschulsky (1845: 83). *Zonitis polita* Gebler (1832: 58), by subsequent designation (Aksentjev 1988: 575).
- Megetra** LeConte (1859: 127). *Meloe cancellatus* Brandt and Erichson (1832: 141, pl. 18, fig. 9), by subsequent designation (Wellman 1910b: 392).
- Melittophagus** Kirby (1818b: 164 (footnote)). *Pediculus melittae* Kirby (1802: 168 (footnote), pl. 14, figs. 10-12) = *Meloe violaceus* Marsham (1802: 482), by original designation. Designation attributed erroneously to Pinto and Selander (1970) by Aksentjev (1988: 575).
- Meloe** Linnaeus (1758: 419). *Meloe proscarabaeus* Linnaeus (1758: 419), by subsequent designation (Latreille 1810: 430). *Invalid designations: Meloe majalis* Linnaeus (1758: 419), by Thomson (1859: 124) and Iablokov-Khnzoryan (1983:82).
- Meloegonius** Reitter (1911: 389). *Meloe cicatricosus* Leach (1815a: 39, pl. 6, figs. 5, 6), by subsequent designation (Aksentjev 1988: 575).
- Meloenellus** Reitter (1911: 390). *Meloe griseopuberulus* Reitter (1890: 152), by subsequent designation (Aksentjev 1988: 575).
- Meloetyphlus** Waterhouse (1872: 31). *Meloetyphlus fuscatus* Waterhouse (1872: 32), by monotypy.
- Meloides** Piller and Mitterpacher (1783: 39). *Meloides adamovichiana* Piller and Mitterpacher (1783: 39, pl. 9, fig. 1), by monotypy.
- Mesocerocoma** Kaszab (1951: 259). *Cerocoma scovitzii* Faldermann (1837: 117, pl. 3, fig. 3), by original designation.
- Mesogorbata** Pardo Alcaide (1954: 78). *Mylabris apicipennis* Reiche (1865: 635), by original designation.
- Mesolaevigata** Pardo Alcaide (1954: 68). *Mylabris geminata* Fabricius (1798: 120), by original designation. Name used earlier by Pardo Alcaide (1950: 65[5]) without fixation of a type species.
- Mesolytta** Selander (1960b: 27). *Oenas coccineus* Ménétriés (1848: 247, pl. 4, fig. 14), by original designation.
- Mesomeloe** Reitter (1911: 392). *Meloe sulcicollis* Kraatz (1882: 334) = *M. xanthomelas* Solsky (1881: 257), by subsequent designation (Aksentjev 1988: 576).
- Mesopunctata** Pardo Alcaide (1954: 74). *Meloe quadri-punctata* Linnaeus (1767: 680), by original designation. Name used earlier by Pardo Alcaide (1950: 73[13]) without fixation of a type species.
- Mesorbata** Pardo Alcaide (1954: 66). *Mylabris elegans* Olivier (1811: 101), by original designation.
- Mesoscutata** Pardo Alcaide (1954: 81). *Mylabris duodecimpunctata* Olivier (1811: 98), by original designation.
- Mesosulcata** Pardo Alcaide (1950: 65[5]). *Mylabris hieracii* Graëlls (1949: 621), by monotypy. *Invalid designation: Mylabris hieracii* Graëlls (1949: 621), by Pardo Alcaide (1954: 68).
- Mesotaeniata** Pardo Alcaide (1955: 4). *Meloe lunata* Pallas (1782 [1781-98]): 79, pl. E, fig. 5), by original designation.
- Metacerocoma** Kaszab (1951: 259). *Cerocoma schreberi* Fabricius (1781: 331), by original designation.
- Meteletica** Kaszab (1955: 18). *Cantharis testacea* Olivier (1795, no. 46, p. 7), by original designation.
- Micrabris** Kuzin (1954: 351). *Mylabris geminata* Fabricius (1798: 120), by original designation. Name used prematurely by Kuzin (1953: 118) without fixation of a type species.
- Micromeloe** Reitter (1911: 390). *Meloe uralensis* Pallas (1773: 722), by subsequent designation (Aksentjev 1988: 576).
- Micromerus** Mulsant and Rey (1858: 147). *Litta [sic] collaris* Fabricius (1787: 215), by monotypy. Preoccupied by *Micromerus* Rambur (1842: 416) (Neuroptera, Hemerobiidae).
- Mimesthes** Marseul (1873: 548, 566). *Mimesthes maculicollis* Marseul (1873: 567), by monotypy.
- Mimovesperus** Pic (1923: 10). *Mimovesperus pilosus* Pic (1923: 10) = *Lytta verrulicollis* Karsch (1881: 49, pl. 2, fig. 7), by monotypy.
- Monabris** Kuzin (1953: 137). *Mylabris undecimpunctata* Fischer von Waldheim (1842: 17), by monotypy.
- Monabris** Kuzin (1954: 360). *Mylabris undecimpunctata* Fischer von Waldheim (1842: 17), by original designation. Junior homonymic synonym of *Mona-bris* Kuzin (1953).
- Morphozonitis** Pic (1922: 16). *Morphozonitis atripennis* Pic (1922: 16), by monotypy.
- Muzimes** Aksentjev (1988: 577). *Litta [sic] collaris* Fabricius (1787: 215), by fixation as type species of *Micromerus* Mulsant and Rey.
- Mylabris** Fabricius (1775: 261). *Meloe cichorii* Linnaeus (1758: 419), by subsequent designation (Latreille 1810: 430). Latreille's designation is acceptable, even though he used the French vernacular, Mylabres, rather than *Mylabris*. *Invalid designations: Meloe quadripunctata* Linnaeus (1767: 680) by Pardo

- Alcaide (1954: 60) and Kuzin (1954: 346); *Meloe cichorii* Linnaeus by Mohamedsaid (1979: 209).
- Neabris** Kaszab (1958: 284). *Mylabris (Neabris) klappe-richi* Kaszab (1958: 285, figs. 121-126), by original designation.
- Negalius** Casey (1891: 175). *Negalius marmoratus* Casey (1891: 175), by monotypy.
- Nemognatha** Illiger (1807: 333). *Zonitis vittata* Fabricius (1801: 24) = *Z. piazzata* Fabricius (1798: 104), by monotypy. *Invalid designations: Nemognatha rost-rata* Fabricius (1792: 50) by Latreille (1810: 430); *Zonitis chrysomelina* Fabricius (1775: 126) by Blanchard (1836-49, pl. 55, fig. 5), Wellman (1910b: 396), and others.
- Neozonitis** Enns (1956: 800). *Zonitis bilineata* Say (1817: 22), by original designation.
- Nomaspis** LeConte (1866 [1863-66b]: 156). *Meloe parvus* Haldeman (1852: 337) = *Meloe parvulus* Haldeman (1854: 404), by monotypy.
- Nyadatus** Aksentjev (1981: 860). *Nyadatus telejus* Aksentjev (1981: 861, figs. 1-6), by original designation.
- Oenas** Latreille (1802: 186). *Lytta atrata* Fabricius (1775: 260) (misidentification) = *Meloe afer* Linnaeus (1767: 680), by monotypy. *Invalid designations: Meloe afer* Linnaeus, by Latreille (1810: 430) (as "*Lytta afra*, Fab."), Blanchard (1836-49, pl. 54, fig. 9), Wellman (1910b: 393), and Iablokov-Khnzoryan (1983: 77). Wellman credited the designation to an article in Guérin-Ménéville's *Dictionnaire pittoresque d'histoire naturelle* by Lucas (1838: 224), but Lucas merely cited *Meloe afer* as an example of the genus. I will request that the International Commission on Zoological Nomenclature fix *Meloe afer* Linnaeus as type species, under Art. 70 of the ICZN.
- Onychotenus** Gemminger and Harold (1870: 2162). *Unjustified emendation of Onychotenus* LePeletier and Audinet-Serville.
- Onychotenus** LePeletier and Audinet-Serville (1828: 440). *Onychotenus sonnerati* LePeletier and Audinet-Serville (1828: 440), by monotypy.
- Opiomeloe** Selander (1985: 612). *Tetraonyx flavipennis* Guérin-Ménéville (1843: 22), by original designation.
- Oreomeloe** Tan (1981: 415). *Oreomeloe spinulus* Tan (1981: 415, figs. 4, 5), by original designation.
- Palaestra** Castelnau (1840: 251). *Palaestra rubripennis* Castelnau (1840: 251), by monotypy.
- Palaestrida** White (1846: 509). *Palaestrida bicolor* White (1846: 509, pl. 2, fig. 1), by monotypy.
- Paniculolytta** Selander (1960a: 79). *Lytta sanguin-eoguttata* Haag-Rutenberg (1880: 40), by original designation.
- Paractenodia** Péringuey (1904: 285). *Paractenodia parva* Péringuey (1904: 285), by monotypy.
- Paralytta** Selander (1960b: 49). *Lytta magister* Horn (1870: 90), by original designation.
- Parameloe** Denier (1933a: 241). *Parameloe alatus* Denier (1933a: 245, pl. 7), by original designation.
- Paratetraonyx** Kaszab (1959: 113). *Tetraonyx distincti-collis* Pic (1916: 4), by original designation. Kaszab mistakenly cited the year of Pic's description as 1932.
- Parazonitis** Enns (1956: 819). *Nemognatha vittigera* LeConte (1853: 348), by original designation.
- Paroenas** Kolbe (1894: 190). *Paroenas limbata* Kolbe (1894: 190), by monotypy.
- Pauronemognatha** Enns (1956: 764). *Nemognatha nigripennis* LeConte (1853: 347), by original designation.
- Phodaga** LeConte (1858a: 76). *Phodaga alticeps* LeConte (1858a: 77), by monotypy.
- Physomeloe** Reitter (1911: 388). *Meloe corallifer* Germar (1818: 259), by monotypy.
- Picella** Denier (1933b: 37 (footnote)). *Lytta gerardi* Pic (1919: 3), by fixation as type species of *Tetraolytta* Pic. *Invalid replacement name for Tetraolytta* Pic.
- Picnoseus** Solier (1851: 281). *Tetraonyx flavipennis* Solier (1851: 282) = *Tetraonyx xanthopterus* Gemminger (1870: 123), by monotypy.
- Pleuropasta** Wellman (1909: 20). *Calospasta mirabilis* Horn (1870: 93), by original designation.
- Pleuropompha** LeConte (1862 [1861-62]: 273). *Lytta costata* LeConte (1854b: 84), by monotypy.
- Pomphopoea** LeConte (1862 [1861-62]: 273). *Lytta aenea* Say (1824 [1823-24]: 301), by subsequent designation (Dillon 1952: 354). *Lytta aenea* was one of the first species assigned [in March 1863] to *Pomphopoea* by LeConte (1863 [1863-66a]: 69). *Invalid designation: Lytta sayi* LeConte (1853: 336) by MacSwain (1956: 72 (footnote)).
- Poreospasta** Horn (1868: 139). *Poreospasta polita* Horn (1868: 139) = *Nomaspis sublaevis* Horn (1868: 140), by monotypy.
- Prionotolytta** Péringuey (1909: 249). *Lytta binotata* Péringuey (1888: 139), by monotypy.
- Prionotus** Redtenbacher (1842: 536). *Prionotus praeustus* Redtenbacher (1842: 536, pl. 25, fig. 7), by subsequent designation (Wellman 1910b: 396). *Invalid designation: Prionotus praeustus* Redtenbacher by Aksentjev (1988: 578).
- Proetetica** Kaszab (1955: 22). *Eletica colorata* Harold (1878: 108), by original designation.
- Prolytta** Kaszab (1959: 109). *Lytta lucida* Haag-Rutenberg (1880: 65), by original designation.
- Pronemognatha** Enns (1956: 714). *Nemognatha sparsa* LeConte (1868: 53), by original designation.
- Proscarabaeus** Schrank (1781: 225). *Meloe proscarabaeus* Linnaeus (1758: 419), by absolute tautonymy.
- Protomeloe** Abdullah (1965a: 248). *Protomeloe argentinensis* Abdullah (1965a: 248, figs. 1-12) = *Spastica wagneri* Pic (1915: 15), by original designation.
- Psalydolytta** Péringuey (1909: 254). *Lytta lorigera* Gerstaecker (1854: 695), by subsequent designation.

- (Imperial Institute of Entomology 1935: 238). *Invalid designation: Lytta lorigera* Gerstaecker by Anand (1977: 36).
- Pseudabris** Fairmaire (1894: 222). *Pseudabris tigridera* Fairmaire (1894: 222) = *Zonabris przewalskyi* Dokhtouroff (1887: 341), by monotypy.
- Pseudolytta** Selander (1960b: 27). *Lytta aeneiventris* Haag-Rutenberg (1880: 75), by original designation.
- Pseudomeloe** Fairmaire and Germain (1863: 258). *Meloe picipes* Fairmaire and Germain (1860: 4), by subsequent designation (Aksentjev 1988: 578). Wellman's (1910b: 396) suggestion that "*anthracinus* Fairmaire et Germain, 1863 [*sic*] (= *parvus* Gay, 1851)" might serve as the type species is not a type designation.
- Pseudopyrota** Kaszab (1959: 108). *Lytta sanguinithorax* Haag-Rutenberg (1880: 34), by original designation.
- Pseudosybaris** Saha (1981: 277). *Pseudosybaris kempi* Saha (1981: 279, figs. 1-3), by original designation.
- Pseudozonitis** Dillon (1952: 342). *Zonitis longicornis* Horn (1870: 93), by original designation.
- Pyrota** Dejean (1834 [1833-37]: 224). *Lytta dispar* Germar (1824: 171), by subsequent designation (Aksentjev 1988: 578). The generic assignment of the type species, originally given as *Tetraonyx*, was changed to *Lytta* in Germar's *corrigenda*. *Invalid designation: Pyrota palpalis* Champion (1892 [1891-93]: 462), not an originally included species, by Dillon 1952: 355).
- Rhampholyssa** Kraatz (1863: 110). *Cerocoma steveni* Fischer von Waldheim (1824 [1823-24]: 227, pl. 41, figs. 3, 4), by monotypy.
- Rhampholyssodes** Kaszab (1983: 182). *Rhampholyssodes pitheri* Kaszab (1983: 182, figs. 126, 127, 132, 133, pl. 5, fig. 53), by original designation.
- Rhyphonemognatha** Enns (1956: 795). *Zonitis sanguinicollis* Champion (1892 [1891-93]: 384, pl. 17, figs. 20, 21), by original designation.
- Rusadiria** Pardo Alcaide (1954: 60). *Mylabris billbergi* Gyllenhal (1817: 33), by original designation. *Rusadiria* was proposed initially by Pardo Alcaide (1952: 70) for *Hycleus distinctus* Chevrolat (1837: 269) (credited erroneously to Billberg) and *Mylabris billbergi* Gyllenhal, specified in the legends to Figs. 8d and 31, respectively, without designation of a type species.
- Sagitta** Escherich (1894: 295). *Lytta angusticollis* Haag-Rutenberg (1880: 62), by subsequent designation (Wellman 1910b: 392). Preoccupied by *Sagitta* Quoy and Gaimard (1827: 232) (Zoophyta or Mollusca).
- Schroetteria** Reitter (1911: 395 (footnote)). *Zonitis polita* Gebler (1832: 58), by subsequent designation (Aksentjev 1988: 579).
- Semenovilia** Kuzin (1953: 98). *Mylabris fischeri* Gebler (1847: 503), by monotypy.
- Serospasta** Selander (1966: 476). *Serospasta vittata* Selander (1966: 476, figs. 6, 10, 19, 35, 58-62), by original designation.
- Sibuteletica** Pic (1913a: 122). *Eletica lemoulti* Pic (1913a: 123), by monotypy.
- Sitaris** Latreille (1802: 187). *Necydalis humeralis* Fabricius (1775: 209) = *Necydalea muralis* Forster (1771: 48), by monotypy. The name *humeralis* is an emendation, presumably justified, of *humuralis* Fabricius (1775: 209) made by Fabricius (1787: 170). *Invalid designation: Necydalis humeralis* Fabricius by Wellman (1910b: 393), who credited the designation to an article in Guérin-Méneville's *Dictionnaire pittoresque d'histoire naturelle* by Lucas (1833). Lucas, however, merely cited the species as an example of the genus.
- Sitarobrachys** Reitter (1883: 309). *Sitarobrachys brevipennis* Reitter (1883: 309, pl. 4, fig. 6), by monotypy.
- Sitaromorpha** Dokhtouroff (1890: 190). *Sitaromorpha wilkinsi* Dokhtouroff (1890: 190, pl. 2, fig. 71), by monotypy.
- Sitaropsis** Iablokov-Khznoryan (1958: 1896). *Apalus (Sitaropsis) erevanensis* Iablokov-Khznoryan (1958: 1896, fig. 1), by original designation.
- Spastica** Lacordaire (1859: 679). *Gnathium flavicollis* Chevrolat (1829-44: 136, pl. 35, fig. 14)], by subsequent designation (Wellman 1910b: 396). Aksentjev (1988: 579) mistakenly credited Wellman's designation to Selander (1966).
- Spastomeloe** Selander (1985b: 669). *Spastomeloe formosus* Selander (1985b: 670, figs. 1, 3-6, 9, 11-13, 14), by original designation.
- Spastonyx** Selander (1954: 13). *Calospasta nemognathoides* Horn (1870: 92), by original designation.
- Sphenabris** Kuzin (1954: 361). *Meloe balteata* Pallas (1782 [1781-98]: 88, pl. F, fig. E.14), by original designation. Name used prematurely by Kuzin (1953: 135) without fixation of a type species.
- Steniselma** Borchmann (1942: 704). *Steniselma brunnea* Borchmann (1942: 704), by monotypy.
- Stenodera** Eschscholtz (1818: 469). *Stenodera sexpunctata* Eschscholtz (1818: 469) = *Meloe caucasica* Pallas (1782 [1781-98]: 94, pl. E, fig. 24), by monotypy. Aksentjev (1988: 579) cited the name of the type species as *sexmaculata*, in error.
- Stenoderina** Aksentjev (1988: 579). *Zonitis puncticollis* Chevrolat (1829-44: 135, pl. 35, fig. 11), by original designation. Aksentjev pointed out that *Stenoderina* Maran (1942: 17) is unavailable because it was proposed without fixation of a type species.
- Stenoderistella** Reitter (1911: 395). *Stenodera pallidissima* Reitter (1908: 50), by monotypy.
- Stenoria** Mulsant (1857: 394). *Sitaris apicalis* Latreille (1804b: 403), by monotypy.
- Sybaris** Stephens (1832: 70). *Sybaris immunis* Stephens (1932: 70), by monotypy.

- Synhoria** Kolbe (1897: 256). *Horia cephalotes* Olivier (1792: 102), by subsequent designation (Cros 1924: 32). *Invalid designation*: *Horia cephalotes* Olivier by Mohamedsaid (1982: 108). Gahan (1908: 199, 200) suggested that *H. cephalotes* might be designated as type species but did not actually make such a designation.
- Syriolytta** Kaszab (1962: 295). *Lydus vulneratus* Fairmaire (1892: 155) = *Lytta fairmairei* Borchmann (1917: 94), by original designation.
- Taphromeloe** Reitter (1911: 389). *Meloe erythrocnemus* Pallas (1782 [1781-98]: 76, pl. E, fig. 1), by monotypy.
- Tegrodera** LeConte (1851: 159). *Tegrodera erosa* LeConte (1851: 159), by monotypy.
- Teratolytta** Semenov (1894: 533). *Cantharis dives* Brullé (1832: 232, pl. 41, figs. 7, 8), by subsequent designation (Wellman 1910b: 396). Iablokov-Khnzoryan (1983: 81) indicated, incorrectly, that *C. dives* was designated as type species by Semenov (1894). Aksentjev (1988: 580) wrongly credited Iablokov-Khnzoryan (1983) with fixing the type species.
- Tetraolytta** Pic (1919: 3 (footnote)). *Lytta gerardi* Pic (1919: 3), by monotypy.
- Tetraonyx** Latreille (1805: 204, 237). *Tetraonyx octomaculatum* Latreille (1805: 237, pl. 16, fig. 7), by monotypy. *Invalid designation*: *Mylabris sexguttata* Olivier (1795, no. 47: 11, pl. 2, fig. 5) (incorrectly credited to Klug), by Blanchard (1836-49, pl. 55, fig. 2).
- Tigrabris** Kuzin (1954: 364). *Meloe atrata* Pallas (1773: 722), by original designation. Name used prematurely by Kuzin (1953: 142) without designation of a type species.
- Tmesidera** Westwood (1841: 1). *Tmesidera rufipennis* Westwood (1841: 2, pl. 85), by monotypy.
- Trapezimeloe** Pliginsky (1935: 322). *Meloe conradti* Heyden (1888: 42), by monotypy.
- Treiodous** Dugès (1869 [1869-81]: 102). *Treiodous barranci* Dugès (1869 [1869-81]: 102, pl. 1, figs. 1, 2) = *Meloe laevis* Leach (1815b: 249, pl. 18, fig. 4), by monotypy.
- Trichomeloe** Reitter (1911: 391). *Meloe chrysocomus* Miller (1861: 206), by subsequent designation (MacSwain 1956: 71).
- Tricrania** LeConte (1860: 320). *Horia sanguinipennis* Say (1824 [1823-24]: 279), by subsequent designation (Wellman 1910a: 219).
- Tricraniodes** Wellman (1910a: 219). *Tricrania stansburyi* Haldeman (1852: 337), by original designation.
- Triungulinus** Dufour (1828: 63). *Triungulinus andrene-tarum* Dufour (1828: 64, pl. 9, fig. B), by monotypy.
- Wagneria** Denier (1932: 90). *Lytta aratae* Berg (1883: 66), by original designation. Preoccupied by *Wagneria* Robineau-Desvoidy (1830: 126) (Diptera) and *Wagneria* Gistel (1848: 169) (Mollusca).
- Wagneronota** Denier (1935a: 26). *Lytta aratae* Berg (1883: 66), by fixation as type species of *Wagneria* Denier. Replacement name for *Wagneria* Denier.
- Xanthabris** Kaszab (1956: 637). *Xanthabris beluchistanica* Kaszab (1956: 638, figs. 1, 2), by original designation. The name of the type species was cited incorrectly as *beluchistanica* by Aksentjev (1988: 581).
- Xenospasta** Selander (1966: 467). *Xenospasta flava* Selander (1966: 468, figs. 3, 15, 27, 30, 31, 45-48), by original designation.
- Zitunabris** Pardo Alcaide (1969: 375). *Mylabris oleae* Castelnau (1840: 269), by original designation.
- Zonabris** Harold (1879: 134). *Meloe cichorii* Linnaeus (1758: 419), by fixation as type species of *Mylabris* Fabricius. Invalid replacement name for *Mylabris* Fabricius.
- Zonitides** Abeille de Perrin (1880: 253). *Zonitides oculifer* Abeille de Perrin (1880: 253), by monotypy. Because the heading "*Zonitis*" was (inadvertently) omitted after the original description of *Zonitides oculifer*, it would appear superficially that several species were included in *Zonitides*, which was evidently Wellman's (1910b: 396) interpretation. Yet it clear from remarks of Abeille de Perrin on p. 253 that *Zonitides* was intended solely for *Z. oculifer*. The generic name was not included in Aksentjev's (1988) list.
- Zonitis** Fabricius (1775: 126). *Zonitis flava* Fabricius (1775: 127), by subsequent designation (Selander 1987: 341). *Invalid designation*: *Zonitis praeusta* Fabricius (1792: 48), not an originally included species, by Latreille (1810: 430), Blanchard (1836-49, pl. 55, fig 4), and others.
- Zonitodema** Péringuey (1909: 284). *Zonitis viridipennis* Fabricius (1798: 103), by original designation.
- Zonitoides** Fairmaire (1883e: 31). *Zonitoides megalops* Fairmaire (1883e: 32), by monotypy. Preoccupied by *Zonitoides* Lehman (1862: 111) (Mollusca).
- Zonitolytta** Pic (1927: 29). *Zonitolytta robusta* Pic (1927: 29), by monotypy.
- Zonitomorpha** Péringuey (1909: 272). *Zonitis sellata* Fahraeus (1870: 354), by subsequent designation (Aksentjev 1988: 581). The name of the type species was mistakenly referred to as "*Zonitomorpha sellata* Péringuey, 1909" by Aksentjev.
- Zonitopsis** Wellman (1910b: 395). *Zonitoides megalops* Fairmaire (1883e: 32), by fixation as type species of *Zonitoides* Fairmaire. Replacement name for *Zonitoides* Fairmaire.
- Zonitoschema** Péringuey (1909: 274). *Lytta coccinea* Fabricius (1801: 71), by subsequent designation (Aksentjev 1988: 581).

Unavailable Names

- Ammabris** Kuzin (1953: 133). *Nomen nudum* under ICZN Art. 13(b). See *Ammabris* Kuzin (1954) in list of available names.
- Androfoveata** Pardo Alcaide (1950: 76[16]). *Nomen nudum* under ICZN Art. 13(b). See *Androfoveata* Pardo Alcaide (1954) in list of available names.
- Androplicata** Pardo Alcaide (1948: 497). *Nomen nudum* under ICZN Art. 13(b). Named as a group of *Mylabris* Fabricius to include five species but subsequently employed by Pardo Alcaide (1950: 69[9], 70[10], 71[11]) as an anatomical term.
- Androtarsata** Pardo Alcaide (1950: 79[19]). *Nomen nudum* under ICZN Art. 13(b).
- Argabris** Kuzin (1953: 138). *Nomen nudum* under ICZN Art. 13(b). See *Argabris* Kuzin (1954) in list of available names.
- Cerocoma** Geoffroy (1762: 357). Published in a work placed on the Official Index of Invalid and Rejected Works in Zoology of the ICZN. See *Cerocoma* Fabricius in list of available names.
- Chalcabris** Kuzin (1953: 103). *Nomen nudum* under ICZN Art. 13(b). See *Chalcabris* Kuzin (1954) in list of available names.
- Chrysabris** Kuzin (1953: 115). *Nomen nudum* under ICZN Art. 13(b). See *Chrysabris* Kuzin (1954) in list of available names.
- Dacnodes** Dejean (1834 [1833-37]: 226). *Nomen nudum* under ICZN Art. 12.
- Eumylabris** Kuzin (1953: 126). *Nomen nudum* under ICZN Art. 13(b). See *Eumylabris* Kuzin (1954) in list of available names.
- Gorrizia** Pardo Alcaide (1950: 64[4]). *Nomen nudum* under ICZN Art. 13(b). See *Gorrizia* Pardo Alcaide (1954) in list of available names.
- Lydus** Latreille (1825: 384). *Nomen nudum* under ICZN Art. 12. See *Lydus* Dejean in list of available names.
- Mesolaevigata** Pardo Alcaide (1950: 65[5]). *Nomen nudum* under ICZN Art. 13(b). See *Mesolaevigata* Pardo Alcaide (1954) in list of available names.
- Mesopunctata** Pardo Alcaide (1950: 73[13]). *Nomen nudum* under ICZN Art. 13(b). See *Mesopunctata* Pardo Alcaide (1954) in list of available names.
- Micrabris** Kuzin (1953: 118). *Nomen nudum* under ICZN Art. 13(b). See *Micrabris* Kuzin (1954) in list of available names.
- Rusadiria** Pardo Alcaide (1952: 70). *Nomen nudum* under ICZN Art. 13(b). See *Rusadiria* Pardo Alcaide (1954) in list of available names.
- Spastica** Dejean (1834 [1833-37]: 226). *Nomen nudum* under ICZN Art. 12. See *Spastica* Lacordaire in list of available names.
- Sphenabris** Kuzin (1953: 135). *Nomen nudum* under ICZN Art. 13(b). See *Sphenabris* Kuzin (1954) in list of available names.

Stenoderina Maran (1942: 17). *Nomen nudum* under ICZN Art. 13(b). See *Stenoderina* Aksentjev in list of available names.

Submeloegonius Pliginsky (1935: 320). *Nomen nudum* under ICZN Art. 13(b). Described as a subgenus of *Meloe* Linnaeus to include *Meloe angulatus* Leach and *M. adisabebae* Pliginsky, without designation of a type species.

Synamma Dejean (1834 [1833-37]: 221). *Nomen nudum* under ICZN Art. 12.

Tachys Latreille (1803: 243). Latreille used this name in first defining the taxon he later (Latreille 1804a) called *Cissites*. From the context in which it appears in Latreille's (1803) work, Betrem (1929: xxviii, 1932: 86) argued that *Tachys* is a French vernacular name, not fully Latinized, and is therefore, under ICZN Art. 11(b), not available in zoological nomenclature. Misspelled as *Trachys* by Aksentjev (1988: 580).

Tigrabris Kuzin (1953: 142). *Nomen nudum* under ICZN Art. 13(b). See *Tigrabris* Kuzin (1954) in list of available names.

Classification of Meloidae to Subgeneric Level

The classification presented here extends to the generic and subgeneric levels the classification that I outlined earlier to the family-group level (Selander 1964b, 1966). The only change at the family-group level that is not purely a substitution of names is the assignment of Pyrotina to the synonymy of Lyttina, for reasons discussed elsewhere (Selander 1990). Changes involving commonly used family-group names required by the principle of priority include substitution of Cerocomini for Lyttini and Horiinae for Nemognathinae or Zonitinae. The classification recognizes three subfamilies, 10 tribes, 15 subtribes, 116 genera, and 66 subgenera.

The most recent comprehensive classification of the Meloidae is that of Kaszab (1969), which lists taxa at and above the generic level. Besides updating the nomenclature at the genus-group level and incorporating subgenera, the present classification offers improvement in two major respects. First, it more adequately reflects the taxonomic contribution of studies of bionomics and, in particular, larval anatomy. Second, for the first time it treats names at the family-group level in a manner consistent with the provisions of the ICZN.

Of the many differences between the two classifications, by far the most important, it seems to me, have to do with the eleticines. I have enumerated elsewhere the several characteristics in which

the Eleticinae are clearly ancestral with respect to the remaining Meloidae (Meloinae and Horiinae) (Selander 1966) and need not, I think, repeat the argument for isolating the eleticine genera from the others in the classification of the family. Admittedly, the Eleticinae may be paraphyletic, since no unique, derived characteristic (synapotypy) can be specified for its members at present. On the other hand, the apparent lack of such a characteristic does not disprove monophyly. Moreover, since the Meloinae and Horiinae share several characteristics that are quite clearly derived with respect to the Eleticinae, inclusion of any of their genera (such as *Deridea*) in Eleticinae guarantees paraphyly for that subfamily and for the Meloinae or Horiinae or both.

With regard to *Deridea*, Kaszab (1969: 244) implied, incorrectly, that I placed the genus in the Horiinae (=Nemognathinae) on the basis of the similarity of its habitus (mistakenly termed "habits") to that of flower-feeding Horiinae (the head of the adult is unusually elongate and in this characteristic as well as in size *Deridea* resembles the horiine *Gnathium*). One thing should be clear: *Deridea* has the derived characteristics of sclerotization, abdominal structure, and wing venation defining the Meloinae/Horiinae line and cannot on any basis be included in the Eleticinae. I assigned *Deridea* to the Horiinae (as a separate tribe) primarily because the form of the male genitalia suggests that the copulatory position is dorsoventral (male above female), which is one of the defining features of the Horiinae. Although separate, the male gonostyli in *Deridea* are so closely pressed together as to be functionally united; indeed, it is only by distorting the genital capsule that it becomes apparent that they are not actually fused. Lack of separation of the gonostyli is associated functionally with the form of the sclerotized portion of the ejaculatory duct of the aedeagus, which is straight and not modified into a dorsal hook that must be accommodated between the gonostyli. *Deridea* has two ventral hooks on the aedeagus, one subapical and the other at about the distal 1/5, but these in themselves do not imply a linear copulatory position, anymore than does the presence of a dorsal hook alone. Thus some Eleticinae (in which a linear copulatory position is almost certainly ruled out by the structure of the female genitalia) have ventral hooks alone, whereas it has been established by observation that *Tetraonyx*, with a dorsal hook but no ventral hooks,

copulates with the male above the female, as in most Coleoptera. (In Meloinae it is apparent that the depth and width of the separation between gonostyli is very strongly correlated with the size of the dorsal hook. In that subfamily, where the copulatory position is linear, the aedeagus almost invariably has 1 or 2 distinct ventral hooks *in addition* to a dorsal hook.) I regard *Deridea* as an early line of Horiinae that originated, as did Tetraonycini, before the adult tarsal claw developed denticulations, the male gonostyli became fused, and the male aedeagus lost the ventral hooks.

The genus *Stenoderia* seems to be the next evolutionary step beyond Tetraonycini and Derideini, and I have long regarded the genus as representing a distinct tribe of Horiinae. However, as I have already indicated, my previous use of the name Stenoderini for the taxon in question (Selander 1964b) did not make the name available. Stenoderini, *new tribe*, may be distinguished in the adult stage (the larva is unknown) as follows: Single row of teeth along the ventral margin of the dorsal blade of the tarsal claw, male gonostyli partially fused (free only at the apex and with the line of fusion evident elsewhere), arms of male abdominal sternite IX not lamellate apically, male tergum IX divided into four sclerites, and maxillary palpifer separated from the stipes by a well-marked suture. The tribe includes only the genus *Stenoderia*.

The listing of genera within subtribes or tribes and subgenera within genera is alphabetical.

Meloidae Gyllenhal (1810)
 Eleticinae Wellman (1910a)
 Spasticini Kaszab (1959)
 Protomeloina Abdullah (1965b)
 Protomeloe Abdullah (1965a)

Spasticina Kaszab (1959)
 Spastica Lacordaire (1859)

Xenospastina Selander (1966)
 Xenospasta Selander (1966)

Anthicoxenina Selander (1966)
 Anthicoxenus Fairmaire and Germain (1860),
 Iselma Haag-Rutenberg (1879), Iselmeletica Kaszab (1966)

Eleticini Wellman (1910a)

Eospastina Selander (1966)

Eospasta Selander (1966), **Serospasta** Selander (1966)

Eleticina Wellman (1910a)

Eletica Dejean (1834 [1833-37]), **E. (Eletica)** Dejean (1834 [1833-37]) = *Iletica* Gemminger and Harold (1870), unjustified emendation), **E. (Meteletica)** Kaszab (1955)), **E. (Proeletica)** Kaszab (1955)), **E. (Sibuteletica)** Pic (1913a))

Morphozonitina Kaszab (1969)

= *Ertlianina* Selander (1966) = *Ertliini* Kaszab (1959)

Ceriselma Borchmann (1942), **Morphozonitis** Pic (1922) = *Ertlia* Borchmann (1942), preoccupied = *Ertliana* Selander (1964a) = *Steniselma* Borchmann (1942)

Meloinae Gyllenhal (1810)

Prolyttini Selander (1960b)

Prolytta Kaszab (1959)

Meloini Gyllenhal (1810)

Afromeloe Schmidt (1913), *new status*, **Cyaneo-lytta** Péringuey (1909), ?**Cylindrothorax** Escherich (1896a) = *Mimovesperus* Pic (1923) = *Sagitta* Escherich (1894), preoccupied, **Epispasta** Selander (1960a), **Eurymeloe** Reitter (1911) = *Coelomeloe* Reitter (1911), **Lampromeloe** Reitter (1911), *new status*, **Lyttomeloe** Denier (1920), **Meloe** Linnaeus (1758), **M. (Alveomeloe)** Pripisnova (1987)), **M. (Chiromeloe)** Reitter (1911)), **M. (Coelomeloe)** Reitter (1911)), **M. (Desertimeloe)** Kaszab (1964)), **M. (Lasiomeloe)** Reitter (1911)), **M. (Listromeloe)** Reitter (1911)), **M. (Meloe)** Linnaeus (1758) = *Anchomeloe* Iablokov-Khznoryan (1983) = *Cnestocera* Thomas (1859) = *Melittophagus* Kirby (1818) = *Proscara-baeus* Schrank (1781) = *Triungulinus* Dufour (1828)), **M. (Meloegonius)** Reitter (1911)), **M. (Meloellus)** Reitter (1911)), **M. (Mesomeloe)** Reitter (1911)), **M. (Micromeloe)** Reitter (1911)), **M. (Physomeloe)** Reitter (1911)), **M. (Taphromeloe)** Reitter (1911)), **M. (Trapezimeloe)** Pliginsky (1935)), **M. (Treiodous)** Dugès (1869 [1869-81]), **Oreomeloe** Tan (1981), **Spastomeloe** Selander (1985), **Spastonyx** Selander (1954)

Cerocomini Leach (1815c)

Eupomphina LeConte (1862 [1861-62])

= *Calospastides* Wellman (1910a) = *Cordylospastides* Wellman (1910a) = *Cysteodemides* Wellman (1910a) = *Gynaecomelodides* Wellman (1910a) = *Megetrina* Kaszab (1959) = *Phodagae* LeConte (1862 [1861-62]), = *Tegrod-rini* Dillon (1952)

Cordylospasta Horn (1875) = *Brachyspasta* Van Dyke (1928) = *Gynaecomeloe* Wellman (1910a), **Cysteod-**

emus LeConte (1851), **Eupompha** LeConte (1858b) = *Calospasta* LeConte (1862 [1861-62]), **Megetra** LeConte (1859), **Phodaga** LeConte (1858a) = *Negalius* Casey (1891), **Pleuropasta** Wellman (1909), **Tegrodera** LeConte (1851)

Lyttina Solier (1851)

= *Alosimates* Mulsant (1857) = *Lydina* Kaszab (1959) = *Pyrotini* MacSwain (1956) = *Sybarides* Wellman (1910a)

Acrolytta Kaszab (1959), **Afrolyttta** Kaszab (1959), **Alosimus** Mulsant (1857) = *Halosimus* Gemminger and Harold (1870), unjustified emendation, **Berberomeloe** Bologna (1989), **Bokermannia** Martínez (1963), **Brasil-iota** Kaszab (1959), **Cabalia** Mulsant and Rey (1858), **Denierota** Kaszab (1959) = *Paniculolytta* Selander (1960a), **Dictyolytta** Selander (1960a), **Eolydus** Denier (1913) = *Indiolytta* Selander (1960b), **Glaphyrolyttta** Martínez (1958) = *Aeneopyrota* Kaszab (1959), **Lagorina** Mulsant and Rey (1858), **Lydomorphus** Fairmaire (1882), **Lydulus** Semenow (1893) = *Lydoenas* Reitter (1894), **Lydus** Dejean (1821), **Lytta** Fabricius (1775), **L. (Adicolytta)** Selander (1960b)), **L. (Asiolytta)** Kaszab (1962)), **L. (Lytta)** Fabricius (1775)), **L. (Mesolytta)** Selander (1960b)), **L. (Paralytta)** Selander (1960b)), **L. (Pomphopoea)** LeConte (1862 [1861-62])), **L. (Poreospasta)** Horn (1868)), **L. (Pseudolytta)** Selander (1960b)), **L. (Syriolytta)** Kaszab (1962b)), **Lyttamorphia** Kaszab (1959), **Lyttonyx** Marseul (1876), **Lyttolydulus** Reitter (1913) = *Lydopsis* Martínez del la Escalera (1914), **Megalytta** Selander (1960a), **Muzimes** Aksentjev (1988) = *Micromerus* Mulsant and Rey (1858), preoccupied, **Oenas** Latreille (1802), **Parameloe** Denier (1933a), **Paroenas** Kolbe (1894), **Picnoseus** Solier (1851) = *Gynapteryx* Fairmaire and Germain (1863), *new synonymy*, **Prionotolytta** Péringuey (1909), **Pseudomeloe** Fairmaire and Germain (1863) = *Excavatomeloe* Pliginsky (1935), **Pseudopyrota** Kaszab (1959), **Pseudosy-baris** Saha (1981), **Pyrota** Dejean (1834 [1833-37]), **Sybaris** Stephens (1832) = *Prionotus* Redtenbacher (1842), **Teratolytta** Semenow (1894), **Tetraolytta** Pic (1919) = *Picella* Denier (1933b), **Trichomeloe** Reitter (1911), **Wagneronota** Denier (1935a) = *Wagneria* Denier (1932), preoccupied.

Cerocomina Leach (1815c)

Anisarthrocera Semenow (1895b), **Cerocoma** Fabricius (1775), **C. (Cerocoma)** Fabricius (1775), **C. (Cerocomina)** Kaszab (1951)), **C. (Meloides)** Pillar and Mitterpacher (1783)), **C. (Mesocerocoma)** Kaszab (1951)), **C. (Metacerocoma)** Kaszab (1951)), **Diaphorocera** Heyden (1863), **Rhampholyssa** Kraatz (1863), **Rhampholyssodes** Kaszab (1983)

Mylabrina Castelnau (1840)

= *Calydina* Kaszab (1960) = *Zonabriini* Reitter (1911)

Arithmema Chevrolat (1829-44) = *Actenodia* Castelnau (1840) = *Paractenodia* Péringuey (1904), **Calydabris** Kaszab (1960), **Calydus** Reitter (1896) = *Caloenas* Reitter (1889), preoccupied, **Ceroctis** Marseul (1870), **Croscherichia** Pardo Alcaide (1950) = *Libycisca* Kuzin (1954), **Lydoceras** Marseul (1870) = *Denierus* Pic (1913b), **Mimesthes** Marseul (1873), **Mylabris** Fabricius (1775), **M.** (**Ammabris** Kuzin (1954) = *Mesorbata* Pardo Alcaide (1954)), **M.** (**Argabris** Kuzin (1954)), **M.** (**Chalcabris** Kuzin (1954)), **M.** (**Chrysabris** Kuzin (1954)), **M.** (**Decapotoma** Voigts (1902) = *Decatoma* Dejean (1821), preoccupied, = *Mesotaeniata* Pardo Alcaide (1955)), **M.** (**Eumylabris** Kuzin (1954) = *Neabris* Kaszab (1958)), **M.** (**Hycleus** Latreille (1817) = *Androfoveata* Pardo Alcaide (1954) = *Coryna* Billberg (1813), preoccupied = *Dices* Dejean (1821) = *Gorizia* Pardo Alcaide (1954) = *Mesoscutata* Pardo Alcaide (1954) = *Rusadiria* Pardo Alcaide (1954) = *Tigrabris* Kuzin (1954)), **M.** (**Lachnabris** Kuzin (1953) = *Lachnabris* Kuzin (1954), homonymic synonym), **M.** (**Mauritabris** Pardo Alcaide (1969)), **M.** (**Mesopunctata** Pardo Alcaide (1954)), **M.** (**M.** **Mesosulcata** Pardo Alcaide (1950) = *Glaucabris* Kuzin (1954)), **M.** (**Micrabris** Kuzin (1954) = *Mesolaevigata* Pardo Alcaide (1954)), **M.** (**Monabris** Kuzin (1953) = *Monabris* Kuzin (1954), homonymic synonym), **M.** (**Mylabris** Fabricius (1775) = *Euzonabris* Kuzin (1954) = *Megabris* Des Gozis (1881) = *Zonabris* Harold (1879)), **M.** (**Sphenabris** Kuzin (1954) = *Mesogorbata* Pardo Alcaide (1954)), **M.** (**Zitunabris** Pardo Alcaide (1969)), **Pseudabris** Fairmaire (1894), **Semenovilia** Kuzin (1953), **Xanthabris** Kaszab (1956)

Epicautina Denier (1935b)

= *Apterospastides* Wellman (1910a) = *Macrobases* LeConte (1862 [1861-62])

Denierella Kaszab (1952), **Epicauta** Dejean (1834 [1833-37]), **E.** (**Epicauta** Dejean (1834 [1833-37]) = *Anomalonychus* Saylor (1940) = *Anomalonyx* Denier (1935b), preoccupied = *Causima* Dejean (1834 [1833-37]) = *Henous* Haldeman (1852) = *Isopentra* Mulsant and Rey (1858) = *Maculicauta* Dillon (1952) = *Nomaspis* LeConte (1866 [1863-66b]) = *Pleuropompha* LeConte (1862 [1861-62])), **E.** (**Macrobasis** LeConte (1862 [1861-62]) = *Apterospasta* LeConte (1862 [1861-62]) = *Gnathospasta* Horn (1875)), **Linsleya** MacSwain (1951), **L.** (**Linsleya** MacSwain (1951)), **L.** (**Linsleyina** Selander (1955a)), **Psalydolytta** Péringuey (1909) = *Gnathospastoides* Fletcher (1914)

Horiinae Latreille (1802)

Derideini Wellman (1910a)

Deridea Westwood (1875).

Tetraonycini Böving and Craighead (1931)

= *Meloetyphlini* Borgmeier (1937)

Meloetyphlus Waterhouse (1872), **Opiomeloe** Selander (1885), **Tetraonyx** Latreille (1805), **T.** (**Paratetraonyx** Kaszab (1959)), **T.** (**Tetraonyx** Latreille (1805) = *Iodema* Pascoe (1862) = *Jodema* Gemminger and Harold (1870), unjustified emendation)

Stenoderini, new tribe

Stenodera Eschscholtz (1818), **S.** (**Stenodera** Eschscholtz (1818) = *Zonitides* Abeille de Perrin (1880)), **S.** (**Stenoderina** Aksentjev (1988))

Horiini Latreille (1802)

Cissites Latreille (1804a), **Horia** Fabricius (1787) = *Hoplozonitis* Blackburn (1892), **Synhoria** Kolbe (1897)

Nemognathini Castelnau (1840)

Nemognathina Castelnau (1840)

= *Horniides* Wellman (1910a) = *Tricraniides* Wellman (1910a)

Gnathonemula Aksentjev (1981), **Hornia** Riley (1877) = *Leonida* Dugès (1889) = *Leonidia* Cockerell (1900), **Nemognatha** Illiger (1807), **N.** (**Pronemognatha** Enns (1956)), **N.** (**Meganemognatha** Enns (1956)), **N.** (**Nemognatha** Illiger (1807)), **N.** (**Pauronemognatha** Enns (1956)), **N.** (**Zonitolytta** Pic (1927), new status), **Rhyphonemognatha** Enns (1956), **Tricrania** LeConte (1860) = *Tricraniodes* Wellman (1910a), **Zonitodema** Péringuey (1909)

Zonitina Mulsant (1857)

= *Leptopalpina* Kaszab (1959)

Cochliophorus Escherich (1891), **Gnathium** Kirby (1818), **Euzonitis** Semenow (1893), **Leptopalpus** Guérin-Ménéville (1829-44), **Megatrachelus** Motschulsky (1845) = *Schroetteria* Reitter (1911), **Palaestra** Castelnau (1840) = *Tmesidera* Westwood (1841), **Palaestrida** White (1846), **Pseudozonitis** Dillon (1952), **Zonitis** Fabricius (1775), **Z.** (**Neozonitis** Enns (1956)), **Z.** (**Parazonitis** Enns (1956)), **Z.** (**Zonitis** Fabricius (1775)), **Zonitomorpha** Péringuey (1909), **Zonitoschema** Péringuey (1909) = *Stenoderistella* Reitter (1911) = *Zonitoides* Fairmaire (1883), preoccupied = *Zonitopsis* Wellman (1910b)

Sitarina Mulsant (1857)

= *Apalides* Parker and Böving (1924) = *Stenoriides* Parker and Böving (1924)

Allendesalazaria Martínez de la Escalera (1910), **Apalus** Fabricius (1775), **A.** (**Apalus** Fabricius (1775) = *Criolis* Mulsant (1858) = *Corioligiton* Marseul (1879) = *Hapalus* Illiger (1801), unjustified emendation), **A.** (**Sitaropsis** Iablokov-Khnzoryan (1958)), **Ctenopus** Fischer von Waldheim (1824 [1823-24]), **Filalia** Martínez de la Escalera (1906), **Glasunovia** Semenow (1895a),

Nyadatus Aksentjev (1981), **Onyctenus** LePeletier and Audinet-Serville (1828) = *Onychoctenus* Gemminger and Harold (1870), unjustified emendation, **Sitaris** Latreille (1802), **Sitarobrachys** Reitter (1883), **Sitaromorpha** Dokhtouroff (1890), **Stenoria** Mulsant (1857), **S. (Dera-tus)** Motschulsky (1848)), **S. (Gineremia)** Pardo Alcaide (1961)), **S. (Stenoria)** Mulsant (1857))

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