

## 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 Cantharidae 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]).  
**Gynaecomelodides** 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]).  
**Meloetyphlini** Borgmeier (1937: 248). *Meloetyphlus* 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). *Stenoder* 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 to 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.
- Afrollytta** 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-Khinzoryan (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.
- Anomalonychus** 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). *Cerocomina 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.
- Chromeloe** 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 tuccius* 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 kraatzi* Haag-Rutenberg (1880: 22) = *Lytta sanguineoguttata* Haag-Rutenberg (1880: 40), by original designation.
- Denierus** Pic (1913b: 175). *Zonabris (Mylabris) stanleyana* Duvivier (1890: cxcv), 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). *Cerocomma ocellata* Olivier (1791: 397), by monotypy. *Invalid designation: Cerocomma 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** Pliginsky (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* Graëlls (1849: 621), by original designation.
- Gnathium** Kirby (1818a: 425). *Gnathium francillonii* 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 mimitica* 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-Méneville (1829-44, legend for pl. 35, fig. 13). *Leptopalpus chevrolati* Guérin-Méneville (1829-44, legend for pl. 35, fig. 13) = *Zonitis rostrata* Fabricius (1792: 50), by monotypy. *Invalid designation*: Guérin-Méneville (1829-44: 136) designated *Zonitis rostrata* Fabricius (1792: 50) as type species, but by Guérin-Méneville'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* Dokhtourov (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.
- Lyttamorpha** Kaszab (1959: 106). *Epicauta reichenbachi* 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-Méneville (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* Beauregard (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).
- Meloeognis** 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 quadripunctata* 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.
- Metelctica** 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 *Monabris* 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. piazata* 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-Khinzoryan (1983:77). Wellman credited the designation to an article in Guérin-Méneville'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.
- Onychoctenus** Gemminger and Harold (1870: 2162). *Unjustified emendation of Onyctenus* LePeletier and Audinet-Serville.
- Onyctenus** LePeletier and Audinet-Serville (1828: 440). *Onyctenus sonnerati* LePeletier and Audinet-Serville (1828: 440), by monotypy.
- Opiomeloe** Selander (1985: 612). *Tetraonyx flavipennis* Guérin-Méneville (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.
- Palaestrída** White (1846: 509). *Palaestrída bicolor* White (1846: 509, pl. 2, fig. 1), by monotypy.
- Paniculolytta** Selander (1960a: 79). *Lytta sanguinocoguttata* 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 distincticollis* 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.
- Paaronemognatha** 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)).
- Porospasta** Horn (1868: 139). *Porospasta 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).
- Proletica** Kaszab (1955: 22). *Eletica colorata* Harold (1878: 108), by original designation.
- Prollytta** 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* Dokhtoureff (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 kempii* 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 pitcheri* 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.
- Serrosfasta** Selander (1966: 476). *Serrosfasta 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** Dokhtoureff (1890: 190). *Sitaromorpha wilkinsi* Dokhtoureff (1890: 190, pl. 2, fig. 71), by monotypy.
- Sitaropsis** Iablokov-Khinzoryan (1958: 1896). *Apalus (Sitaropsis) erevanensis* Iablokov-Khinzoryan (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 andrenewatarum* 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.
- Gorizia** Pardo Alcaide (1950: 64[4]). *Nomen nudum* under ICZN Art. 13(b). See *Gorizia* 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 *Stenoder* 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 *Stenoder*.

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), Serrospasta 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)

Prolytini 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. (Chromeloe Reitter (1911)), M. (Coelomeloe Reitter (1911)), M. (Desertimeloe Kaszab (1964)), M. (Lasiomeloe Reitter (1911)), M. (Listromeloe Reitter (1911)), M. (Meloe Linnaeus (1758) = *Anchomeloe* Iablokov-Khinzoryan (1983) = *Cnestocera* Thomas (1859) = *Melittophagus* Kirby (1818) = *Proscara-baeus* Schrank (1781) = *Triungulinus* Dufour (1828)), M. (Meloegonius Reitter (1911)), M. (Meloenellus Reitter (1911)), M. (Mesomeloe Reitter (1911)), M. (Micromeloe Reitter (1911)), M. (Physomeloe Reitter (1911)), M. (Taphromeloe Reitter (1911)), M. (Trapezimeoloe 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) = *Gynaecomeloides* Wellman (1910a) = *Megetrina* Kaszab (1959) = *Phodagae* LeConte (1862 [1861-62]), = *Tegroderini* 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), *Afrolytta* 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), *Glaphyrollytta* 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)), *Lyttamorpha* 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 (1985), **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) = *Tricranioides* Wellman (1910a), **Zonitodema** Péringuey (1909)

#### Zonitina Mulsant (1857)

= *Leptopalpina* Kaszab (1959)

**Cochliophorus** Escherich (1891), **Gnathium** Kirby (1818), **Euzonitis** Semenow (1893), **Leptopalpus** Guérin-Méneville (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-Khinzoryan (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. (Deratus)** Motschulsky (1848)), **S. (Gineremia** Pardo Alcaide (1961)), **S. (Stenoria** Mulsant (1857))

## Acknowledgments

I am indebted to the staff of the interlibrary loans division of the Library of the University of Illinois at Urbana-Champaign for their assistance in obtaining copies of many of the references cited in this work, which was supported financially by grants from the National Science Foundation (BSR-8717366) and the Fulbright Commission (1987-88), and to George Steyskal for his critical comments on the manuscript.

## Literature Cited

- Abdullah, M.** 1965a. *Protomeloe argentinensis*, a new genus and species of Meloidae (Coleoptera), with remarks on the significance of cantharidin and the phylogeny of the families Pyrochroidae, Anthicidae, Meloidae and Ceph-  
aloidae. Ann. Mag. Natur. Hist. (13)7(1964): 247-264.
- Abdullah, M.** 1965b. *Protomeloe crowsoni* a new species of a new tribe (Protomeloini) of the blister beetles (Coleoptera, Meloidae), with remarks on a postulated new pheromone (cantharidin). Entomol. Tidskr. 86:43-48.
- Abeille de Perrin, E.** 1880. Contribution à la faune coléoptérologique de la Méditerranée. Bull. Soc. Hist. Natur. Toulouse 14: 233-261.
- Aksentjev, S. I.** 1981. New genera and species of blister beetles (Coleoptera, Meloidae) from Central Asia. [In Russian.] Entomol. Obozr. 60: 860-864.
- Aksentjev, S. I.** 1988. A catalogue of the genus-group taxa of the beetle family Meloidae (Coleoptera). [In Russian.] Entomol. Obozr. 67: 569-582. [English translation, 1989, in Entomol. Rev. 68: 11-26.]
- Anand, R. K.** 1977. Description of a new species of the genus *Psaldolytta* [sic] Péringuey (Coleoptera: Meloidae) from Bombay (India) with a key to the Indian species. J. Entomol. Res. (New Delhi) 1: 36-39.
- Aurivillius, C.** 1907. Neue oder wenig bekannte Coleoptera Longicornia. 9. Ark. Zool. 3: 93-131, pl. 1.
- [Baird, W.]** 1850. Nomenclature of molluscan animals and shells in the collection of the British Museum. Part 1. Cyclophoridae. Spottiswoodes and Shaw, London, 68 + 1 pp.
- Beauregard, H.** 1889. [Notes on Meloidae.] Ann. Soc. Entomol. Fr. 58: cccii-ccciii.
- Berg, C.** 1883. Doce heteromeros nuevos de la fauna argentina. An. Soc. Cient. Argen. 15: 66-78.
- Betrem, J. C.** 1929. Over de Systematiek der Horiini. Tijdschr. Entomol. 72: versl. xxvi-xxix.
- Betrem, J. C.** 1932. Beiträge zur Kenntnis des Tribus der Horiini der Familie der Meloidae (Col.). 1. Die Systematik der Horiini. Treubia 14: 85-101, pl. 7.
- Billberg, G. J.** 1813. Monographia Mylabridum. Caroli Delen, Holmiae, 74 + 6 pp, 7 pls.
- Blackburn, T.** 1892. Further notes on Australian Coleoptera with descriptions of new genera and species. Trans. Proc. Roy. Soc. S. Aust. 15: 207-261.
- Blanchard, E.** 1836-49. In J. V. Audouin, E. Blanchard, L. Doyère, and H. Milne Edwards, Les insectes. Myriapodes, thysanoures, parasites, suceurs et coléoptères]. Vol. 1. Atlas. In G. Cuvier, Le règne animal distribué d'après son organisation, pour servir de base à l'histoire naturelle des animaux, et d'introduction à l'anatomie comparée. Edition accompagnée de planches gravées, représentant les types de tous les genres, les caractères distinctifs des divers groupes et les modifications de structure sur lesquelles repose cette classification; par une réunion de disciples de Cuvier. Fortin, Masson et Cie, Paris, 75 pls. [Published work not dated. Hagen (1862, Bibliotheca entomologica, vol. 2, p. 362) gives 1849, the National Union Catalog (vol. 60, p. 365) 1836-49, and Aksentjev (1988: 581) 1838-45, "(Meloidae, 1844)."]



- Blanchard, E.** 1845. Histoire des insectes, traitant de leurs mœurs et de leurs métamorphoses en général, et comprenant une nouvelle classification fondée sur leurs rapports naturels. Vol. 2. Firmin Didot et Frères, Paris, 524 pp., pls. 11-20.
- Bologna, M. A.** 1989. *Berberomeloe*, a new west Mediterranean genus of Lyttini for *Meloe majalis* Lin[n]é (Coleoptera, Meloidae): Systematics and bionomics. *Boll. Zool.* 55(1988): 359-366.
- Borchmann, F.** 1917. Meloidae, Cephaloidae. In W. Junk and S. Schenkling (eds.), *Coleopterorum catalogus*. Part 69. W. Junk, Berlin, 208 pp.
- Borchmann, F.** 1942. Neue Meloiden-Arten (Col.) II. *Mitt. München. Entomol. Ges.* 32: 682-712.
- Borgmeier, T.** 1937. Uma nova especie de *Meloe typhlus* Waterhouse (1872) e a hypothese da myrmecophilía deste genero (Col. Meloidae). *Rev. Entomol.* 7: 247-255, pl. 2.
- Bosc, L. A. G.** 1802. Suites à Buffon. Histoire naturelle des vers, contenant leur description et leurs mœurs. Vol. 2. Déterville, Paris. [Edition 2, 1830, Libraire Encycl. de Roret, Paris, 354 pp., examined.]
- Böving, A. G., and F. C. Craighead.** 1931. An illustrated synopsis of the principal larval forms of the order Coleoptera. *Entomol. Amer.* 11, 351 pp., 125 pls.
- Brandt, J. F., and W. F. Erichson.** 1832. Monographia generis *Meloes*. *Nova Acta Leopoldina* [Verh. Kaiserl. Leopold.-Carolin. Akad. Naturf.] 16(1): 101-142, pl. 18.
- Brullé, A.** 1832. Famille des trachélydes. In *Expédition scientifique de Morée*, ordonnée par le gouvernement français. Section des sciences physiques (sous la direction de M. Bory de Saint-Vincent). Vol. 3. Zoologie et botanique. Part 1. Section 2, pp. 227-234, pl. 41. F. G. Levrault, Paris et Strasbourg.
- Burmeister, H.** 1865. Cantaridas del país. *Rev. Farmaceut., Soc. Farmacia Argen.* 4: 129-131.
- Casey, T.** 1891. Coleopterological notices, III. *Ann. N. Y. Acad. Sci.* 6: 9-214.
- Castelnau, F. de.** 1840. Histoire naturelle des insectes. Coléoptères. Vol. 2. P. Duménil, Paris, 563 pp., 38 pls.
- Champion, G. C.** 1891-93. Family Meloidae. In F. E. Godman and O. Salvin (eds.), *Biologia Centrali - Americana, Coleoptera*. Vol. 4. Pt. 2, pp. 364-464, pls. 17-21. Dulau Co., London.
- Chevrolat, A.** 1829-44. In F. E. Guérin-Méneville, *Iconographie du règne animal de G. Cuvier ...* Vol. 3. Insectes, pp. 133-137, pls. 34-35. J. B. Baillièrre, Paris.
- Chevrolat, A.** 1833. *Meloe. Meloe.* Fab. M. d'Olivier. *M. olivieri*. Chevrolat. *Mag. Zool.* 3, classe IX, 2 pp., pl. 57.
- Chevrolat, A.** 1837. Descriptions de mylabrides de Barbarie. *Rev. Entomol. Silbermann* 5: 266-279.
- Cockerell, T. D. A.** 1900. The name *Leonia*. *Psyche* 9: 11.
- Cros, A.** 1924. Révision des espèces africaines et orientales des genres *Horia* Fabr. et *Cissites* Latr., avec description de larves inédites. *Bull. Soc. Entomol. Egypte* 8: 24-80.
- Dejean, P. F. M. A.** 1821. Catalogue de la collection des coléoptères de M. le Baron Dejean. Crevot, Paris, viii + 136 pp.
- Dejean, P. F. M. A.** 1833-37. Catalogue des coléoptères de la collection de M. le Comte Dejean. Méquignon- Marvis Père et Fils, Paris, livr. 1: 1-96 (1833); livr. 2: 97-176 (1833); livr. 3: 177-256 (1834); livr. 4: 257-360 (1835); livr. 5: 361-443 (1837).
- Dejean, P. F. M. A.** 1837. Catalogue des coléoptères de la collection de M. le Comte Dejean. Troisième édition, revue, corrigée et augmentée. Méquignon- Marvis Père et Fils, Paris, xiv + 503 pp.

- Denier, P. C. L.** 1913. Description d'un genre et d'une espèce nouvelle de Meloidae [Col.]. Bull. Soc. Entomol. Fr. 1913: 231-232.
- Denier, P. C. L.** 1920. Description d'un genre nouveau de la tribu des Lyttini [Col. Meloidae]. Bull. Soc. Entomol. Fr. 1920: 332.
- Denier, P. C. L.** 1932. Descripción de una especie nueva del género *Lytta*. Descripción del género *Wagneria* (Col. Meloidi). Rev. Soc. Entomol. Argen. 5: 87-92.
- Denier, P. C. L.** 1933a. Contribución al estudio de los meloidos americanos. Rev. Chilena Hist. Natur. 37: 237-246, pl. 7.
- Denier, P. C. L.** 1933b. Documentos para la clasificación de los meloidos americanos. Primera serie. Bol. Mens. Min. Agr. Nac. (Argentina) 32: 35-52.
- Denier, P. C. L.** 1935a. Estudios sobre meloidos americanos. Apuntes críticos de sistemática y de nomenclatura. Rev. Argen. Entomol. 1: 15-28.
- Denier, P. C. L.** 1935b. Coleopterorum americanorum familiae Meloidarum. Enumeratio synonymica. Rev. Soc. Entomol. Argen. 7: 139-176.
- Des Gozis, M.** 1881. Quelques rectifications synonymiques touchant différents genres et espèces de coléoptères français (1re partie). Ann. Soc. Entomol. Fr. (6)1: cxii-cxiii.
- Dillon, L. S.** 1952. The Meloidae (Coleoptera) of Texas. Amer. Midland Natur. 48: 330-420.
- Dokhtouroff, W.** 1887. Insecta in itinere Cl. N. Przewalskii in Asia centrali novissime lecta. VIII. Cantharides nouveaux du Thibet. Tr. Vses. Entomol. Obshchest. [Horae Soc. Entomol. Rossicae] 21: 341-344.
- Dokhtouroff, W.** 1890. Faune coléoptérologique Aralo-Caspienne. XIIIe partie. Meloides et cantharides (mylabrides). Tr. Vses. Entomol. Obshchest. [Horae Soc. Entomol. Rossicae] 24: 121-192, pl. 2.
- Donovan, E.** 1793. The natural history of British insects; explaining them in their several states . . . . Vol. 2. F. and C. Rivington, London, 96 + 3 pp., pls. 37-72.
- Dufour, L.** 1828. Description d'un genre nouveau d'insectes de l'ordre des parasites. Ann. Sci. Natur. (Paris) 13: 62-66, pl. 9, fig. B.
- Dugès, E.** 1869-81. Descripción de algunos meloidos indígenas. Naturaleza 1: 100-113, 125-128, 157-171, pls. 1-2 (1869); 4: 57-67, pl. 2 (1877); 5: 140-148, pls. 4 (1881).
- Dugès, E.** 1889. Description of *Leonia Rileyi*, a new meloid genus near *Hornia*. Insect Life 1: 211-213, fig. 47.
- Dupuis, C.** 1886. Dates de publication de l'"Histoire naturelle générale et particulière des crustacés et des insectes" (1802-1805) par Latreille dans le "Buffon de Sonnini." Ann. Soc. Entomol. Fr. (n.s.) 22: 205-210.
- Duvivier, A.** 1890. Diagnoses de quelques coléoptères nouveaux du Congo. Ann. Soc. Entomol. Belg. 1890: cxciv-cxcvii.
- Enns, W. R.** 1956. A revision of the genera *Nemognatha*, *Zonitis*, and *Pseudozonitis* (Coleoptera, Meloidae) in America north of Mexico, with a proposed new genus. Univ. Kans. Sci. Bull. 37: 685-909.
- Escherich, K.** 1891. *Cochliophorus* nov. gen. Meloidarum. Deut. Entomol. Z. 1891: 16.
- Escherich, K.** 1894. Beiträge zur Naturgeschichte der Meloidengattung *Lytta* Fab. Verh. Kaiserl.-Königl. Zool.-Bot. Ges. 44: 251-298, pls. 8-11.
- Escherich, K.** 1896a. Meloiden-Studien. IV. Theil. Wien. Entomol. Zeit. 15: 27-30.
- Escherich, K.** 1896b. Revision der Meloïden-Gattung *Lydus* Latr. Deut. Entomol. Z. 1896: 193-236.

- Escherich, K.** 1897. Revision der palaearktischen Zonitiden, einer Unterfamilie der Meloiden. Verh. Naturforsch. Ver. Brunn 35: 96-133. [Also published as Bestimmungs-Tabelle der Europäischen Coleopteren. XXXVI. Heft. Meloidae. II. Theil: Zonitidae. W. Bukart, Brunn.]
- Eschscholtz, J. F.** 1818. Decades tres Eleutheratorum novorum descripsit. Mém. Acad. Imp. Sci. St. Pétersb. 6: 451-484.
- Fabricius, J. C.** 1775. Systema entomologiae, sistens Insectorum classes, ordines, genera, species, adjectis synonymis, locis, descriptionibus, observationibus. Kortius, Flensburgi et Lipsiae, xxx + 832 pp.
- Fabricius, J. C.** 1781. Species Insectorum exhibentes eorum differentias specificas, synonyma auctorum, loca natalia, metamorphosin adjectis observationibus, descriptionibus. Vol. 1. C. E. Bomnii, Hamburgi et Kilonii, 552 pp.
- Fabricius, J. C.** 1787. Mantissa Insectorum sistens eorum species nuper detectas adjectis characteribus genericis, differentiis specificis, emendationibus, observationibus. Vol. 1. C. G. Proft, Hafniae, 348 pp.
- Fabricius, J. C.** 1792. Entomologia systematica emendata et aucta secundum classes, ordines, genera, species adjectis synonymis, locis, observationibus, descriptionibus. Vol. 1. Part 2. C. G. Proft, Hafniae, 538 pp.
- Fabricius, J. C.** 1798. Supplementum entomologiae systematicae. Proft et Storch, Hafniae, ii + 572 pp.
- Fabricius, J. C.** 1801. Systema Eleutheratorum. Vol. 2. Bibliopolii Academici Novi, Kiliae, 687 pp.
- Fahraeus, O. I.** 1870. Coleoptera Caffraeae, annis 1838-1845 a J. A. Wahlberg collecta. Heteromera descripsit. Ofv. Kongl. Vetensk.-Akad. Forhandl. 27: 243-358.
- Fairmaire, L.** 1882. In L. Fairmaire, [G.] van Lansberge, and [J.] Bourgeois, Coléoptères recueillis par M. G. Révoil chez les Çomalis. In G. Révoil, Faune et flore des pays Çomalis (Afrique orientale). Bouchard-Huzard, Paris, iv + 104 pp., 1 pl.
- Fairmaire, L.** 1883. Essai sur les coléoptères de l'Archipel de la Nouvelle-Bretagne. Ann. Soc. Entomol. Belg. 27: 1-58.
- Fairmaire, L.** 1892. Descriptions de coléoptères des environs d'Akbès (Syrie). Ann. Soc. Entomol. Belg. 36: 144-159.
- Fairmaire, L.** 1894. Quelques coléoptères du Thibet. Ann. Soc. Entomol. Belg. 38: 216-225.
- Fairmaire, L.** 1896. Hétéromères de l'Inde recueillis par M. Andrewes. Ann. Soc. Entomol. Belg. 40: 6-62.
- Fairmaire, L., and P. Germain.** 1860. Coleoptera chilensia. Part 2, section 1 (suite). F. Malteste et Cie, Paris, 8 pp.
- Fairmaire, L., and P. Germain.** 1863. Révision des coléoptères du Chili (suite). Ann. Soc. Entomol. Fr. (4)3: 225-284.
- Faldermann, F.** 1837. Fauna entomologica Transcaucasica. Coleoptera. Pars II. Nouv. Mém. Soc. Imp. Natur. Moscou 5: 1-433, 16 pls.
- Fischer von Waldheim, G.** 1823-24. Entomographia Imperii Rossici. Vol. 2. A. Semen, Mosquae, xx + 264 pp., 40 pls.
- Fischer von Waldheim, G.** 1842. Catalogus Coleopterorum in Siberia orientali a Cel. Gregorio Silide Karelin collectorum. Moscow, 28 pp.
- Fletcher, T. B.** 1914. Some South Indian insects. Superintendent, Government Press (Madras), vii + 565 pp.
- Forster, J. R.** 1771. Novae species insectorum. Centuria I. T. Davies et B. White, London, 100 pp.

- Gahan, C. J.** 1908. Notes on the coleopterous genera *Horia*, Fab., and *Cissites*, Latr., and a list of the described species. *Ann. Mag. Natur. Hist.* (8)2: 199-204.
- Gebler, F. A. von.** 1817. *Insecta Sibiriae rariora*. *Mém. Soc. Imp. Natur. Moscou* 5: 315-356
- Gebler, F. A. von.** 1832. Notice sur les coléoptères qui se trouvent dans le district des mines de Nertchinsk, dans la Sibérie orientale, avec la description de quelques espèces nouvelles. *Nouv. Mém. Soc. Imp. Natur. Moscou* 2: 23-77.
- Gebler, F. A. von.** 1845. Charakteristik der von Hn. Dr. Schrenk in den Jahren 1841 und 1843 in den Steppen der Dsungorei gefundenen neuen Coleopteren-Arten. *Bull. Phys.-Math. Acad. Imp. Sci. St. Pétersb.* (2-A)3: 97-106.
- Gebler, F. A. von.** 1847. Verzeichniss der im Kolywano-Woskresenskischen Hüttenbezirke Süd-West Sibiriens beobachteten Käfer mit Bemerkungen und Beschreibungen. *Bull. Soc. Imp. Natur. Moscou* 20: 391-516.
- Gemminger, M.** 1870. Nachstehende Art- oder Gattungsnamen. [Harold] *Coleopt. Hefte* 6: 119-124.
- Gemminger, M., and E. Harold.** 1870. *Catalogus Coleopterorum*. Vol. 7. E. H. Gummi, Monachii, pp. 1801-2179.
- Geoffroy, E. L.** 1762. Histoire abrégée des insectes qui se trouvent aux environs de Paris; dans laquelle ces animaux sont rangés suivant un ordre méthodique. Vol. 1. Durand, Paris, xxviii + 523 pp., 10 pls.
- Germar, E. F.** 1818. *Meloe corallifera* nov. sp. (Germar) *Mag. Entomol.* 3: 259.
- Germar, E. F.** 1824. *Insectorum species novae aut minus cognitae, descriptionibus illustratae*. Vol. 1. Coleoptera. J. C. Hendelii et Filii, Halae, xxiv + 624 pp., 2 pls.
- Gerstaecker, C. E. A.** 1854. Diagnosen der von [Peters] in Mossambique gesammelten und von Dr. Gerstäcker bearbeiteten Käfer aus der Familie der Vesicantia. *Ber. Verh. Königl. Preuss. Akad. Wiss. Berlin* 1854: 694-695.
- Gistel, J.** 1848. *Naturgeschichte des Thierreichs für höhere Schulen*. Scheitlin & Kraiss, Stuttgart, 220 pp., 32 pls.
- Graëlls, M. de la Paz.** 1849. Description de coléoptères nouveaux propres à la faune centrale de l'Espagne. *Rev. Mag. Zool.* (2)1: 620-622.
- Gray, G. R.** 1840. A list of the genera of birds, with an indication of the typical species of each genus. Richard & John E. Taylor, London, 80 pp.
- Gray, J. E.** 1840. Molluscous animals. *In Synopsis of the contents of the British Museum*. Ed. 42, pp. 106-156. G. Woodfall and Son, London.
- Guérin-Ménéville, F. E.** 1823. Cissite. *Cissites*. *In Dictionnaire classique d'histoire naturelle*. Vol. 4, pp. 164-165. Rey et Gravier, Paris.
- Guérin-Ménéville, F. E.** 1829-44. *Iconographie du règne animal de G. Cuvier . . .* Vol. 3. Insectes. J. B. Baillière, Paris and London., 576 pp., 104 pls.
- Guérin-Ménéville, F. E.** 1834. *Meloe*. *Meloe*. Linne. M. de Saulcy. *M. saulcyi*. *Guerin. Mag. Zool.* 3, classe IX, 2 pp., pl. 100.
- Guérin-Ménéville, F. E.** 1843. *Insectes nouveaux, observés sur les plateaux des cordillères et dans vallées chaudes de la Nouvelle-Grenade . . . avec des notes relatives à leurs mœurs, à leur distribution géographique, etc.* par M. J. Goudot. *Rev. [Mag.] Zool.* 1843: 12-22.
- Gyllenhal, L.** 1810. *Insecta svecica. Classis I. Coleoptera sive Eleuterata*. Vol. 1. Part 2. F. J. Leverentz, Scaris, 660 pp.
- Gyllenhal, L.** 1817. *In C. J. Schönherr, Appendix ad synonymiam insectorum*. Vol. 1. Part 3. Sistens descriptiones novarum specierum. *Officina Lewerentziana, Scaris*, 266 pp.

- Haag-Rutenberg.** 1879. Ueber *Meloe ursus* Thunb. und Verwandte. Deut. Entomol. Z. 23: 401-407.
- Haag-Rutenberg.** 1880. Beiträge zur Kenntniss der Canthariden. Deut. Entomol. Z. 24: 17-90.
- Haldeman, S. S.** 1852. Insects. In H. Stansbury, Exploration and survey of the Valley of the Great Salt Lake of Utah, pp. 366-378, pls. 9-10. Lippincot, Grambo, & Co., Philadelphia.
- Haldeman, S. S.** 1854. [Proposal to change the name of *Meloe parvus* to *M. parvulus*.] Proc. Acad. Natur. Sci. Philadelphia 6: 404.
- Harold, E. von.** 1878. Diagnosen neuer Coleopteren aus dem innern Afrika. Mitt. München. Entomol. Ver. 2: 100-111.
- Harold, E. von.** 1879. Bericht über die von den Herren A. v. Homeyer und P. Pogge in Angola und im Lunda-Reiche gesammelten Coleopteren. [Harold] Coleopt. Hefte 16: 1-224, 2 pls.
- Heyden, L. von.** 1863. Zwei neue Coleopteren-Gattungen aus dem Mittelmeergebiet. Berlin. Entomol. Z. 7: 126-130, pl. 4, figs. 4, 7.
- Heyden, L. von.** 1888. Ueber die von L. Conrath aus den Alai-Gebirge mitgebrachten Coleopteren -- Beitrag XII. Deut. Entomol. Z. 32: 39-44.
- Hope, F. W.** 1831. Synopsis of the new species of Nepaul insects in the collection of Major General Hardwicke. In J. E. Gray, Zoological miscellany. Vol. 1, pp. 21-32. Treuttel, Wurtz, & Co., London.
- Horn, G. H.** 1868. New species of Coleoptera from the Pacific District of the United States. Trans. Amer. Entomol. Soc. 2: 129-140.
- Horn, G. H.** 1870. Contributions to the Coleoptero-logy of the United States. Trans. Amer. Entomol. Soc. 3: 69-97.
- Horn, G. H.** 1875. Synonymical notes and descriptions of North American Coleoptera. Trans. Amer. Entomol. Soc. 5: 126-156.
- Iablokov-Khnzoryan, S. M.** 1958. Two new species of Heteromera from the Armenian SSR (Insecta, Coleoptera). [In Russian.] Zool. Zhur. 37: 1896-1898.
- Iablokov-Khnzoryan, S. M.** 1983. Fauna Armyanskoi SSR. Nasekomye zhestkokrylye. Mayki (Meloidae) i pyl'tseedy (Alleculidae). Izdatel'stvo Akademii Nauk Armyanskoi SSR, Erevan, 155 pp.
- Illiger, J. C. W.** 1801. Namen der Insekten-Gattungen, ihr Genitiv, ihr grammatisches Geschlecht, ihr Silbenmass, ihr Herleitung; zugleich mit den Deutschen Benennungen. Mag. Insektenk. 1: 125-155.
- Illiger, J. C. W.** 1807. Vorschlag zur Aufnahme im Fabricischen Systeme fehlender Käfergattungen. Mag. Insektenk. 6: 318-349.
- Imperial Institute of Entomology.** 1935. [*Psalydolytta*.] Zoological Record 71, pt. XI, Insecta: 238.
- International Commission on Zoological Nomenclature.** 1985. International code of zoological nomenclature. Ed. 3. International Trust for Zoological Nomenclature (London) and University of California Press (Berkeley and Los Angeles), xx + 338 pp.
- Karsch, F.** 1881. Die Käfer der Rohlf'schen Afrikanischen Expedition 1878-79. Berl. Entomol. Z. 25: 41-50, pl. 2, figs. 2-9.
- Kaszab, Z.** 1951. Revision der Cerocominen. Acta Biol. Acad. Sci. Hung. 2: 255-273.
- Kaszab, Z.** 1952. Neue Epicautinen (Col., Meloidae) aus der orientalischen Region. Entomol. Arb. Mus. G. Frey 3: 79-89.
- Kaszab, Z.** 1955. Revision der Meloiden-Gattung *Eletica* Lac. (Coleoptera-Heteromera). Ann. Mus. Roy. Congo Belg. Tervuren 41: 1-121, 11 pls.
- Kaszab, Z.** 1956. Neue Meloiden aus der Sammlung des British Museum (Coleoptera). Ann. Mag. Natur. Hist. (12)9: 631-640.

- Kaszab, Z.** 1958. Die Meloiden Afghanistans (Coleoptera). Acta Zool. Acad. Sci. Hung. 3: 245-312.
- Kaszab, Z.** 1959. Phylogenetische Beziehungen des flügelgeäders der Meloiden (Coleoptera), nebst Beschreibung neuer Gattungen und Arten. Acta Zool. Acad. Sci. Hung. 5: 67-114.
- Kaszab, Z.** 1960. Die Arten und die systematische Stellung der Meloiden-Gattung *Calydus* Reitter (Coleoptera). Acta Zool. Acad. Sci. Hung. 6: 125-134.
- Kaszab, Z.** 1962. Über das System der asiatischen *Lytta*-Arten, nebst Beschreibung drei neuer Arten (Coleoptera, Meloidae). Ann. Hist.-Natur. Mus. Nat. Hung., Zool. 54: 289-298.
- Kaszab, Z.** 1964. Ergebnisse der Mongolisch-Deutschen biologischen Expedition 1962. nr. 3. Meloidae (Coleoptera). Folia Entomol. Hung. (n.s.)17: 317-324.
- Kaszab, Z.** 1966a. *Meloetyphlus fuscatus horni* ssp. nov. sowie die systematische Stellung der Gattung *Meloetyphlus* Waterhouse (Coleoptera: Meloidae). Beitr. Entomol. 16: 183-188.
- Kaszab, Z.** 1966b. Revision der Triben Ertliini und Derideini (Coleoptera, Meloidae). Ann. Hist.-Natur. Mus. Nat. Hung., Zool. 58: 343-360.
- Kaszab, Z.** 1969. The system of the Meloidae (Coleoptera). Mem. Soc. Entomol. Ital. 48: 241-248.
- Kaszab, Z.** 1983. Insects of Saudi Arabia. Coleoptera: Fam. Meloidae. A synopsis of the Arabian Meloidae. Fauna Saudi Arabia 5: 144-204
- Kirby, W.** 1802. Monographia Apum Angliae; or, an attempt to divide into the natural genera and families such species of the Linnean genus *Apis* as have been discovered in England: with descriptions and observations. Vol. 2. J. Raw, Ipswich, 388 pp., pls. 15-18.
- Kirby, W.** 1818a. A century of insects, including several new genera described from his cabinet. Trans. Linn. Soc. London 12: 375-454, pls. 21-22.
- Kirby, W.** 1818b. *Melittophagus*. In W. Kirby and W. Spence, An introduction to entomology: or elements of the natural history of insects: with plates. Vol. 1. Ed 3, p. 164 (footnote). Longman, Hurst, Rees, Orme, & Brown, London.
- Kirsch, T.** 1866. Beiträge zur Käferfauna von Bogota. (Zweites Stuck). Berlin. Entomol. Z. 10: 173-216.
- Klug, F.** 1825. Entomologiae Brasilianae specimen alterum, sistens Insectorum Coleopterorum nondum descriptorum centuriam. Nova Acta Leopoldina [Verh. Kaiserl. Leopold.-Carolin. Akad. Naturf.] 12(2): 421-476, pls. 40-44.
- Kolbe, H. J.** 1894. Coleopteren aus Africa. Stettiner Entomol. Zeitung 55: 178-190.
- Kolbe, H. J.** 1897. Käfer und Netzflüger Ost-Afrikas. In K. Möbius, Die Thierwelt Ost-Afrikas und der Nachbargebiete. Wirbellose Thiere. In Deutsche-Ost-Afrika. Vol. 4, pp. 1-367, pls. 1-4. Dietrich Reimer, Berlin.
- Kraatz, G.** 1863. Revision der Cerocomiden-Gruppe. Berlin. Entomol. Z. 7: 109-115, pl. 4., figs. 8-10.
- Kraatz, G.** 1882. In L. von Heyden and G. Kraatz, Käfer um Samarkand, gesammelt von Habershauer. Deut. Entomol. Z. 26: 334-335.
- Kuzin, B. S.** 1953. The blister beetles of Kazakhstan. [In Russian.] Tr. Respubl. Stantsyi Zashchity Rast., Kazakhstansky Filial Vashnil (Alma-Ata) 1: 72-154.
- Kuzin, B. S.** 1954. Contribution to the knowledge of the systematics of Coleoptera, Meloidae, Mylabrini. [In Russian.] Tr. Vses. Entomol. Obshest. 44: 336-377.
- Lacordaire, J. T.** 1859. Histoire naturelle des insectes. Genera des coléoptères ou expose méthodique et critique de tous les genres proposes jusqu'ici dans cet ordre d'Insectes. Vol. 5. Librairie Encyclopédique de Roret, Paris, 750 pp.

- Latreille, P. A.** 1802. Histoire naturelle, générale et particulière, des crustacés et des insectes. Vol. 3. F. Dufart, Paris, 468 pp.
- Latreille, P. A.** 1803. Histoire naturelle, générale et particulière, des crustacés et des insectes. Vol. 5. F. Dufart, Paris, 406 pp.
- Latreille, P. A.** 1804a. In Tableau méthodique des insectes. In Tableaux méthodiques d'histoire naturelle. In Nouveaux dictionnaire d'histoire naturelle. Vol. 24, pp. 129-200. Déterville, Paris.
- Latreille, P. A.** 1804b. Histoire naturelle, générale et particulière, des crustacés et des insectes. Vol. 10. F. Dufart, Paris, 415 pp., pls. 81-90.
- Latreille, P. A.** 1805. Insectes de l'Amérique équinoxiale, . . . In A. de Humboldt and A. Bonpland, Recueil d'observations de zoologie et d'anatomie comparée, faites dans l'Océan atlantique, dans l'intérieur du nouveau continent dans la Mer du sud pendant les années 1799, 1800, 1801, 1802 et 1803. Vol. 1, pp. 127-259, pls. 15-24; part 2, pp. 1-64, pls. 31-34. F. Schoell, Paris.
- Latreille, P. A.** 1810. Considérations générales sur l'ordre naturel des animaux composant les classes des crustacés, des arachnides, et des insectes; avec un tableau méthodique de leurs genres, disposés en familles. F. Schoell, Paris, 444 pp.
- Latreille, P. A.** 1817. Les crustacés, les arachnides et les insectes. In G. Cuvier, Le règne animal distribué d'après son organisation. Vol. 3. Déterville, Paris, 653 pp.
- Latreille, P. A.** 1825. Familles naturelles du règne animal, exposées succinctement et dans un ordre analytique, avec l'indication de leurs genres. J. B. Ballière, Paris, 570 pp.
- Leach, W. E.** 1815a. An essay on the British species of the genus *Meloe*, with descriptions of two exotic species. Trans. Linn. Soc. London 11: 35-49, pls. 6-7.
- Leach, W. E.** 1815b. Further observations on the genus *Meloe*, with descriptions of six exotic species. Trans. Linn. Soc. London 11(1813): 242-251, pl. 18.
- Leach, W. E.** 1815c. Entomology. In D. Brewster, Edinburgh encyclopaedia. Vol. 9, pp. 57-172. A. Balfour, Edinburgh.
- LeConte, J. L.** 1851. Descriptions of new species of Coleoptera, from California. Ann. Lyc. Natur. Hist. New York 5: 125-216.
- LeConte, J. L.** 1853. Synopsis of the meloides of the United States. Proc. Acad. Natur. Sci. Philadelphia 6: 328-350.
- LeConte, J. L.** 1854. Notice of some coleopterous insects, from the collections of the Mexican Boundary Commission. Proc. Acad. Natur. Sci. Philadelphia 7: 79-85.
- LeConte, J. L.** 1858a. Description of new species of Coleoptera, chiefly collected by the United States and Mexican Boundary Commission, under Major W. H. Emory, U. S. A. Proc. Acad. Natur. Sci. Philadelphia 1858: 59-89.
- LeConte, J. L.** 1858b. Catalogue of Coleoptera of the regions adjacent to the boundary line between the United States and Mexico. J. Acad. Natur. Sci. Philadelphia (2)4: 9-42, pl. 4.
- LeConte, J. L.** 1859. Descriptions of some genera and species of Coleoptera from the vicinity of the southern boundary of the United States of America. In J. Thomson, Arcana naturae ou recueil d'histoire naturelle, pp. 121-127, pl. 13, fig. 3. J. B. Baillièrre et Fils, Paris.
- LeConte, J. L.** 1860. Notes on Coleoptera found at Fort Simpson, Mackenzie River, with remarks on northern species. Proc. Acad. Natur. Sci. Philadelphia 1860: 315-321.
- LeConte, J. L.** 1861-62. Classification of the Coleoptera of North America. Smithson. Misc. Collect. 3(136): 1-208 (1861), 209-278 (1862).
- LeConte, J. L.** 1863-66a. List of the Coleoptera of North America. Part I. Smithson. Misc. Collect. 6(140): 1-49 (1863), 50-70 (1866).

- LeConte, J. L.** 1863-66b. New species of North American Coleoptera. Part I. *Smithson. Misc. Collect.* 6(167): 1-86 (1863), 87-177 (1866).
- LeConte, J. L.** 1868. New Coleoptera collected in the survey for the extension of the Union Pacific Railway, E. D. from Kansas to Fort Craig, New Mexico. *Trans. Amer. Entomol. Soc.* 2: 49-59.
- Lehman.** 1862. Ueber eine neue Heliceen-Gattung. *Malakozool.* Bl. 9: 111-112.
- LePeletier, A. L. M., and J. G. Audinet-Serville.** 1828. *Sitaris. Sitaris.* In *Encyclopédie méthodique. Histoire naturelle. Entomologie, ou histoire naturelle des crustacés, des arachnides et des insectes.* Vol. 10, pp. 438-440. Veuve Agasse, Paris.
- Linnaeus, C.** 1758. *Systema naturae.* Ed. 10. Vol. 1. Laurentii Salvii, Holmiae, 823 pp.
- Linnaeus, C.** 1761. *Fauna svecica sistens animalia sveciae regni: Mammalia, Aves, Amphibia, Pisces, Insecta, Vermes.* Editio altera, auctior. Laurentii Salvii, Stockholmiae, 578 pp.
- Linnaeus, C.** 1764. *Museum S:ae R:ae M:tis Ludovicae Ulricae Reginae Svecorum, Gothorum, Vandalorumque &c. &c. &c.* In quo animalia rariora, exotica, imprimis insecta & conchilia describuntur & determinantur. Prodrumi instar editum. Laurentii Salvii, Holmiae, [6] + 720 + [2] pp.
- Linnaeus, C.** 1767. *Systema naturae.* Ed. 12. Vol. 1. Part 2. Laurentii Salvii, Holmiae, pp. 533-1327 + 36.
- Lucas, P. H.** 1838. *Oenas, Oenas.* In F. E. Guérin-Méneville (ed.), *Dictionnaire pittoresque d'histoire naturelle et des phénomènes de la nature.* Vol. 6, p. 224. Impr. Cosson, Paris.
- Lucas, P. H.** 1857. *Entomologie.* In F. de Castelnau, *Animaux nouveaux ou rares recueillis pendant l'expédition dans les parties centrales de l'Amérique du Sud, de Rio de Janeiro à Lima, et de Lima au Para; exécutées . . . sous la direction du Comte Francis de Castelnau. Part 7 (Zoologie).* Vol. 3, pp. 1-204, 20 pls. P. Bertrand, Paris.
- MacSwain, J. W.** 1951. A new genus of Meloidae from North America. *Pan-Pac. Entomol.* 27: 58.
- MacSwain, J. W.** 1956. A classification of the first instar larvae of the Meloidae (Coleoptera). *Univ. Calif. Pub. Entomol.* 12, iv + 182 pp.
- Mäklin, F. W.** 1875. *Neue Canthariden.* *Acta Soc. Sci. Fenn.* 10: 599-632.
- Maran, J.** 1942. *Generis Stenodera Eschschz. revisio. Coleoptera. Meloidae.* *Sbornik Entomol. Oddeleni Zemskeho Mus. Praze* 20: 14-29.
- Marseul, S. A.** 1870. *Monographie des mylabrides d'Europe et des contrées limitrophes en Afrique et en Asie.* *Abeille* 7(2): 1-204, 6 pls.
- Marseul, S. A.** 1871. *Description d'espèces nouvelles.* *Abeille* 8: 413-420.
- Marseul, S. A.** 1873. *Monographie des mylabrides.* *Mém. Soc. Roy. Sci. Liege* (2)3: 363-662, 6 pls.
- Marseul, S. A.** 1876. *Mélanges.* *Abeille* 16(1878): 35-36.
- Marseul, S. A.** 1879. *Etudes sur les insectes d'Angola qui se trouvent au Muséum National de Lisbonne. II. Fam. Cantharidae.* *J. Sci. Math. Phys. Natur. (Acad. Real Sci. Lisboa)* 7(1879-80): 43-67.
- Marsham, T.** 1802. *Entomologia Britannica, sistens Insecta Britanniae indigena, secundum methodum Linnaeanam disposita.* Vol. 1. Coleoptera. J. White, Londini, 547 pp.
- Martínez de la Escalera, M.** 1906. *Especies nuevas de Coleópteros de Marruecos.* *Bol. Real Soc. Españ. Hist. Natur.* 6: 161-162.



- Martínez de la Escalera, M.** 1910. Coleópteros nuevos de Marruecos. Bol. Real Soc. Españ. Hist. Natur. 10: 379-382.
- Martínez de la Escalera, M.** 1914. Los Coleópteros de Marruecos. Trab. Mus. Nac. Cienc. Natur. (Madrid), Ser. Zool., 11, 553 pp.
- Martínez, A.** 1958. Notas sobre Meloidae (Col.). V. Neotropica 4: 77-80.
- Martínez, A.** 1963. Un nuevo género y especie de Meloidae brasileño (Coleoptera). An. Esc. Nac. Cienc. Biol. Mex. 12: 91-96.
- Melville, R. V., and J. D. D. Smith (eds.).** 1987. Official lists and indexes of names and works in zoology. The International Trust for Zoological Nomenclature, London, 366 pp.
- Ménétriés, E.** 1848. Catalogue des insectes recueillis par feu M. Lehmann avec les descriptions des nouvelles espèces. Seconde et dernière partie. Coléoptères hétéromères. Mém. Acad. Imp. Sci. St. Pétersb., sér. 6, Sci. Natur., 6: 217-328, pls. 3-6.
- Miller, L.** 1861. Neue Käfer aus Kindermann's Vorräthen. Wien. Entomol. Monatschr. 5: 201-209.
- Mohamedsaid, M. S.** 1979. The blister beetles (Meloidae) of Sri Lanka. Ceylon J. Sci. (Biol. Sci.) 13: 203-251.
- Mohamedsaid, M. S.** 1982. Studies on the Malaysian blister beetles (Coleoptera: Meloidae). Fed. Mus. Jour. 27: 97-121.
- Moser, J.** 1921. Neue Melolonthiden von Mittel- und Süd-Amerika. Stett. Entomol. Zeit. 82: 133-182.
- Motschulsky, T. V. von.** 1845. Remarques sur la collection de coléoptères russes. Bull. Soc. Imp. Natur. Moscou 18: 3-127, pls. 1-3.
- Motschulsky, T. V. von.** 1848. Antwort an Dr. Gebler auf einige seiner Bemerkungen in den No II und IV dieses Bulletins (1847). Bull. Soc. Imp. Natur. Moscou 21: 483-493.
- Motschulsky, T. V. von.** 1872. Enumération des nouvelles espèces de coléoptères rapportés de ses voyages. Bull. Soc. Imp. Natur. Moscou 45: 23-55.
- Mulsant, E.** 1857. Histoire naturelle des coléoptères de France. Tribu des vésicants. Ann. Soc. Linn. Lyon (n.s.)4: 209-409, 1 pl.
- Mulsant, E.** 1858. Description d'un coléoptère nouveau de la tribu des vésicants. Ann. Soc. Linn. Lyon (n.s.)5: 239-242.
- Mulsant, E., and C. Rey.** 1858. Coup d'oeil sur les insectes de la famille des cantharidiens accompagnés de la description de diverses espèces nouvelles ou peu connues. Mém. Acad. Sci. Lyon (2)8: 122-214. [Reprinted 1858 in Mulsant's Opuscules entomologiques, vol. 8, pp. 46-138.]
- Olivier, A. G.** 1789. Apale, *Apalus*. In Encyclopédie méthodique. Histoire naturelle. Insectes. Vol. 4, pp. 163-166. Panckoucke, Paris.
- Olivier, A. G.** 1791. Cérocome, *Cerocoma*. In Encyclopédie méthodique. Histoire naturelle. Insectes. Vol. 5, pp. 394-397. Panckoucke, Paris.
- Olivier, A. G.** 1792. Horie, *Horia*. In Encyclopédie méthodique. Histoire naturelle. Insectes. Vol. 7, pp. 99-102. Panckoucke, Paris.
- Olivier, A. G.** 1795. Entomologie, ou histoire naturelle des insectes, avec leurs caractères génériques et spécifiques, leur description, leur synonymie, et leur figure enluminée. Coléoptères. Vol. 3. Lanneau, Paris (genera paged separately). [Legends for plates, published in Vol. 7 (1808), pp. i-xx.]
- Olivier, A. G.** 1811. Mylabre, *Mylabris*. In Encyclopédie méthodique. Histoire naturelle. Insectes. Vol. 8, pp. 86-102. Panckoucke, Paris.
- Osgood, W. H.** 1914. Dates for *Ovis canadensis*, *Ovis cervina*, and *Ovis montana*. Proc. Biol. Soc. Wash. 27: 1-3.

- Pallas, P. S.** 1771. Reise durch verschiedene Provinzen des Russischen Reichs. Vol. 1. Akad. Buchhandl., St. Petersburg, 504 pp. [Reprinted, 1967, by Akademische Druck- und Verlagsanstalt, Graz, Austria.]
- Pallas, P. S.** 1773. Reise durch verschiedene Provinzen des Russischen Reichs. Vol. 2. Akad. Buchhandl., St. Petersburg, 743 pp. [Reprinted, 1967, by Akademische Druck- und Verlagsanstalt, Graz, Austria.]
- Pallas, P. S.** 1781-98. Icones Insectorum praesertim Rossiae Sibiriaeque peculiarium quae collegit et descriptionibus illustravit. Wolfgangi Waltheri, Erlangae, pp. 1-56, pls. A-C (1781); pp. 57-96, pls. D-F (1782); pp. 97-104, pls. G-H (1798).
- Panzer, G. W. F.** 1793. Fauna insectorum germanicae oder Deutschlands Insecten. Heft X. Felssecker, Nürnberg.
- Pardo Alcaide, A.** 1948. Estudios sobre Meloidae. I. Acerca de la validez específica de *Mylabris maculoso-punctata* Grlls., *rosinae* Escher. y *pauper* Escher. Eos 24: 493-502.
- Pardo Alcaide, A.** 1950. Estudios sobre "Meloidae." II. Los "Mylabrinii" de la Península ibérica. Bol. Pat. Veg. Entomol. Agr. 17: 61-82. [Also published as Trabajos (Ser. Fitopatol.) núm. 214, Est. Fitopatol. Agrícola Madrid, Inst. Nac. Invest. Agron., pp. 1-22.]
- Pardo Alcaide, A.** 1952. Los géneros de Meloidae de la fauna hespérica. Graellsia 8(1950): 39-79.
- Pardo Alcaide, A.** 1954. Etudes sur les Meloidae. V. Les Mylabrini du Maroc et du Sahara occidental espagnol (Col. Meloidae). Bull. Soc. Sci. Natur. Phys. Maroc 34: 55-88.
- Pardo Alcaide, A.** 1955. Estudios sobre Meloidae. VI. Sobre algunos *Mylabris* (s. lat.) de la región etiópica. Bull. Inst. Roy. Sci. Natur. Belg. 31(49): 1-32.
- Pardo Alcaide, A.** 1961. Estudios sobre "Meloidae." XIII. Meloideos del Sahara occidental español y de la región del Drâa (Marruecos) (Coleoptera). Eos 37: 91-111.
- Pardo Alcaide, A.** 1969. Etudes sur les Meloidae. XXI. Matériaux pour une révision des Mylabrini de l'Afrique du Nord et du Moyen orient (2ème partie) (Coleoptera). Eos 44: 367-376.
- Parker, J. B., and A. G. Böving.** 1924. The blister beetle *Tricrania sanguinipennis*--biology, descriptions of different stages, and systematic relationship. Proc. U. S. Nat. Mus. 64(23), 40 pp., 5 pls.
- Pascoe, F. P.** 1862. Notices of new or little-known genera and species of Coleoptera. J. Entomol. 1: 32-64, pls. 2-3.
- Péringuey, L.** 1888. Second contribution to the South-African coleopterous fauna. Trans. S. Afr. Phil. Soc. 4: 67-194, pls. i-iv.
- Péringuey, L.** 1892. Fourth contribution to the South African coleopterous fauna. Description of new Coleoptera in the South African Museum. Trans. S. Afr. Phil. Soc. 6: 95-136.
- Péringuey, L.** 1904. Description of new species of Coleoptera in the collection of the South African Museum. Ann. S. Afr. Mus. 3: 281-300, pl. 13.
- Péringuey, L.** 1909. Descriptive catalogue of the Coleoptera of South Africa. Family Meloidae. Trans. Roy. Soc. S. Afr. 1: 165-297, pls. xxii-xxiv.
- Pic, M.** 1896. Description d'un coléoptère hétéromère du Brésil. Bull. Soc. Entomol. Fr. 1896: 68-69.
- Pic, M.** 1899. Description de deux coléoptères nouveaux de Palestine. Bull. Soc. Entomol. Fr. 1899: 278-279.
- Pic, M.** 1905. Descriptions abrégées et notes diverses. Echange 21: 105-107, 129-131.
- Pic, M.** 1913a. Contribution à l'étude du genre "*Eletica*" Lacord. Echange 28: 122-124.
- Pic, M.** 1913b. Coléoptères exotiques en partie nouveaux (suite). Echange 29: 125-126, 133-135, 147-150, 163-166, 175-176, 191-192.

- Pic, M.** 1915. Nouvelles espèces de diverses familles. *Mél. Exot.-Entomol.* 15: 2-24.
- Pic, M.** 1916. Coléoptères exotiques en partie nouveaux (suite). *Echange* 32: 3-4, 5-7, 8, 11-12.
- Pic, M.** 1919. Coléoptères exotiques en partie nouveaux (suite). *Echange* 35: 2-3.
- Pic, M.** 1922. Nouveautés diverses. *Mél. Exot.-Entomol.* 35: 1-32.
- Pic, M.** 1923. Notes diverses, descriptions et diagnoses. *Echange* 39: 9-11.
- Pic, M.** 1927. Coléoptères du globe. *Mél. Exot.-Entomol.* 50: 1-36.
- Piller, M., and L. Mitterpacher.** 1783. *Iter per Poseganam Slavoniae provinciam mensibus Junio, et Julio MDCCLXXXII susceptum. Regiae Universitatis, Budae*, 147 pp., 16 pls.
- Pinto, J. D., and R. B. Selander.** 1970. The bionomics of blister beetles of the genus *Meloe* and a classification of the New World species. III. *Biol. Monogr.* 42, 222 pp.
- Pliginskiy, V. G.** 1935. Notes on Meloidae (Coleoptera, Meloidae), III. [In Russian.] *Entomol. Obozr.* [Rev. Entomol. URSS] 25: 320-323.
- Pripisnova, M. G.** 1987. New subgenus and species of the genus *Meloe* L. (Coleoptera, Meloidae) from the Tadzhikistan. *Izv. Akad. Nauk Tadzh. SSR Otd. Biol. Nauk* 3(104)(1986): 41-45.
- Quoy, J. R. C., and J. P. Gaimard.** 1827. Observations zoologiques faites à bord de l'Astrolabe en mai 1826, dans le détroit de Gibraltar. Suite et fin. Description des genres Biphore, Carinaire, Hyale, Flèche, Cléodore, Anatife et Briarée. *Ann. Sci. Natur.* 10: 225-239, pl. 8.
- Rambur, J. P.** 1842. *Histoire naturelle des insectes. Néuroptères.* Librairie Encyclopédique de Roret, Paris, 17 + 534 pp., 12 pls.
- Redtenbacher, L.** 1842. Coleoptera. In V. Kollar and L. Redtenbacher, *Aufzählung und Beschreibung der von Freiherrn Carl V. Hugel auf seiner Reise durch Kaschmir und das Himalayagebirge gesammelten Insecten.* In C. F. von Hugel, *Kaschmir und das Reich der Siek.* Vol. 4. Part 2, pp. 497-546, pls. 23-27. Hallberger'sche Verlaghandlung, Stuttgart.
- Redtenbacher, L.** 1845. *Die Gattungen der deutschen Käfer-Fauna.* Carl Ueberreuter, Wien, 177 pp., 2 pls.
- Reed, E. C.** 1873. Descriptions of new species of Coleoptera from Chile. *Entomol. Mon. Mag.* 9: 207-209.
- Reiche, L.** 1865. Espèces de mylabrides de la collection de L. Reiche. *Ann. Soc. Entomol. Fr.* (4)5: 627-641.
- Reitter, E.** 1883. Zwei neue Heteromeren-Genera aus Europa. *Wien. Entomol. Zeit.* 2: 307-310, pl. 4, figs. 6, 6a.
- Reitter, E.** 1889. Neue Coleopteren aus Europa, den angrenzenden Ländern und Sibirien, mit Bemerkungen über bekannte Arten. Sechster Theil. *Deut. Entomol. Z.* 1889: 17-44.
- Reitter, E.** 1890. Eine neue behaarte *Meloe*-Art aus Turkestan. *Wien. Entomol. Zeit.* 9: 152.
- Reitter, E.** 1894. In F. Hauser, *Beitrag zur Coleopteren-Fauna von Transcaspien und Turkestan.* *Deut. Entomol. Z.* 1894: 17-74.
- Reitter, E.** 1896. Namensänderung. *Wien. Entomol. Zeit.* 15: 192.
- Reitter, E.** 1897. Drießig neue Coleopteren aus russisch Asien und der Mongolei. *Deut. Entomol. Z.* 1897: 209-228.
- Reitter, E.** 1900. Beitrag zur Coleopteren-Fauna des Russischen Reiches. *Deut. Entomol. Z.* 1900: 49-59.
- Reitter, E.** 1908. Beschreibung einiger neuen Käferarten von Egypten. *Bull. Soc. Entomol. Egypte:* 41-56.

- Reitter, E.** 1911. Fauna germanica. Die Käfer des Deutschen Reiches. Vol. 3. K. G. Lutz, Stuttgart, 436 pp, pls. 81-128.
- Reitter, E.** 1913. Eine Serie neuer Coleopteren aus der paläarktischen Fauna. Deut. Entomol. Z. 1913: 649-666.
- Reitter, E.** 1915. Coleopterologische Notizen. Wien. Entomol. Zeit. 34: 124-126.
- Riley, C. V.** 1877. On a remarkable new genus in Meloidae infesting mason-bee cells in the United States. Trans. Acad. Sci. St. Louis 3: 563-565, pl. 5, fig. 13.
- Robineau-Desvoidy, J. B.** 1830. Essai sur les myodaires. Mem. Prés. Divers Savans Acad. Roy. Sci. Inst. France 2: 1-813.
- Rossi, P.** 1790. Fauna etrusca sistens insecta quae in provinciis Florentina et Pisana praesertim collegit. Vol. 1. Thomae Masi & Soc., Liburni, 272 pp., 10 pls. [shared with vol. 2]
- Saha, G. N.** 1981. A new genus of Meloidae (Coleoptera) from India. Orient. Insects 15: 277-280.
- Say, T.** 1817. Descriptions of several new species of North American insects. J. Acad. Natur. Sci. Philadelphia 1: 19-23.
- Say, T.** 1823-24. Descriptions of coleopterous insects collected in the late expedition to the Rocky Mountains, performed by order of Mr. Calhoun, Secretary of War, under command of Major Long. J. Acad. Natur. Sci. Philadelphia 3: 139-216 (1823); 238-282, 298-331, 403-462 (1824); 4: 88-99 (1824).
- Say, T.** 1824. American entomology, or descriptions of the insects of North America; illustrated by coloured figures from original drawings executed from nature. Vol. 1. Mitchell, Philadelphia Museum, 112 pp., 18 pls.
- Saylor, L. W.** 1940. Two new generic names for South American Coleoptera. Proc. Entomol. Soc. Wash. 42: 46.
- Schmidt, K.** 1913. Sur Kenntnis der athiopisch-afrikanischen *Meloe*formen. Stettiner Entomol. Zeitung 70: 327-334.
- Schrank, Franz von Paula.** 1776. Verzeichniss einiger Insecten, derer im Linneeanischen Natursysteme nicht gedacht wird. In Beiträge zur Naturgeschichte, pp. 59-98, fig. Fritsch, Leipzig.
- Schrank, Franz von Paula.** 1781. Enumeratio Insectorum Austriae indigenorum. E. Klettel Franck, Angustae Vindelicorum, 9 + 548 pp., 4 pls.
- Selander, R. B.** 1954. Notes on the tribe Calospastini, with description of a new subgenus and species of *Calospasta* (Meloidae). Coleopt. Bull. 8: 11-18.
- Selander, R. B.** 1955a. The blister beetle genus *Linsleya* (Coleoptera, Meloidae). Amer. Mus. Novitates 1730, 30 pp.
- Selander, R. B.** 1955b. The proper name for the tribe Calospastini and a correction of generic synonymy (Meloidae). Coleopt. Bull. 9: 17-19.
- Selander, R. B.** 1957. The systematic position of the genus *Nephrites* and the phylogenetic relationships of the higher groups of Rhipiphoridae (Coleoptera). Ann. Entomol. Soc. Amer. 50: 88-103.
- Selander, R. B.** 1960a. Restriction of the genus *Lytta* Fabricius (Meloidae). Coleopt. Bull. 14: 80-86.
- Selander, R. B.** 1960b. Bionomics, systematics, and phylogeny of *Lytta*, a genus of blister beetles (Coleoptera, Meloidae). Ill. Biol. Monogr. 28, 295 pp.
- Selander, R. B.** 1964a. A generic homonym in the Meloidae (Coleoptera). Proc. Entomol. Soc. Wash. 66: 11.
- Selander, R. B.** 1964b. Sexual behavior in blister beetles (Coleoptera: Meloidae) I. The genus *Pyrota*. Can. Entomol. 96: 1037-1082.

- Selander, R. B.** 1966. A classification of the genera and higher taxa of the meloid subfamily Eleticinae (Coleoptera). *Can. Entomol.* 98: 449-481.
- Selander, R. B.** 1985a. A new genus of blister beetles linking *Meloetyphlus* with *Tetraonyx* (Coleoptera: Meloidae). *J. Kans. Entomol. Soc.* 58: 611-619.
- Selander, R. B.** 1985b. *Spastomeloe*, a new genus of Meloini from Peru (Coleoptera: Meloidae). *J. Kans. Entomol. Soc.* 58: 668-685.
- Selander, R. B.** 1986. An annotated catalog and summary of bionomics of blister beetles of the genus *Cyaneolytta* (Coleoptera, Meloidae). *Trans. Amer. Entomol. Soc.* 112: 95-128.
- Selander, R. B.** 1987. The type-species of *Zonitis* Fabricius and the synonymies of *Z. flava* Fabricius and *Z. ruficollis* Frivaldszky. *Deutsche Entomol. Zeitschr.* 34: 341-350.
- Selander, R. B.** 1990. Blister beetles of the genus *Pseudopyrota* (Coleoptera: Meloidae). *J. Kans. Entomol. Soc.* 63: 46-79.
- Semenov, A.** 1893. Meloidarum species novae. Tr. Vses. Entomol. Obshchest. [Horae Soc. Entomol. Rossicae] 27: 265-281.
- Semenov, A.** 1894. Coleoptera asiatica nova. II. Tr. Vses. Entomol. Obshchest. [Horae Soc. Entomol. Rossicae] 28: 526-547.
- Semenov, A.** 1895a. Coleoptera asiatica nova. VI. Tr. Vses. Entomol. Obshchest. [Horae Soc. Entomol. Rossicae] 29: 336-362.
- Semenov, A.** 1895b. De genere *Rhampholyssa* Krtz. Tr. Vses. Entomol. Obshchest. [Horae Soc. Entomol. Rossicae] 29: 515-519.
- Solier, A. J. J.** 1851. Lyttoides. In C. Gay, *Historia fisica y política de Chile. Zoología.* Vol. 5, pp. 278-285, pl. 21, figs. 11-13 (1854). Claudio Gay, Paris.
- Solsky, S. M.** 1881. New or little known Coleoptera from the outlying districts of Imperial Russia and adjoining lands. [In Russian.] Tr. Vses. Entomol. Obshchest [Tr. Russgako Entomol. Obshchest.] 12: 231-265.
- Spinola, M.** 1811. Essai d'une nouvelle classification des diplolepires. *Ann. Mus. Hist. Nat.* [Paris] 17: 138-152.
- Stephens, J. F.** 1832. Illustrations of British entomology. Mandibulata. Vol. 5. Baldwin and Cradock, London, 448 pp.
- Swederus, N. S.** 1787. Et nytt genus och femtio nya species af insecter beskrifne. *Svenska Vetenskapsakad. Avhandl. Naturskyddsarbeten* 8: 181-201, pl. 8.
- Tan, J.** 1981. Coleoptera: Meloidae. In The series of the comprehensive scientific expedition to the Qinghai-Xizang Plateau. *Insects of Xizang.* Vol. 1, pp. 405-416. [In Chinese with English summaries and descriptions of new taxa.] Science Press, Beijing.
- Thomson, C. G.** 1859. Skandinaviens Coleoptera, synoptiskt bearbetade. Vol. 1. Berlingska Boktryckeriet, Lund, 290 pp.
- Thunberg, C. P.** 1781-91. Dissertatio entomologica novas insectorum species, sistens. Edman, Upsaliae, 130 pp., 6 pls.
- Van Dyke, E. C.** 1928. A reclassification of the genera of North American Meloidae (Coleoptera) and a revision of the genera and species formerly placed in the tribe Meloini, found in America north of Mexico, together with descriptions of new species. *Univ. Calif. Pub. Entomol.* 4: 395-474, pls. 15-19.
- Voigts, H.** 1902. Zur Synonymie der Meloiden-Gattung *Zonabris*. *Wien. Entomol. Zeit.* 21: 177-178.
- Waltl, J.** 1835. Reise durch Tyrol, Oberitalien und Piedmont nach dem südlichen Spanien. Zweiter Theil. Ueber die Thiere Andalusiens. Pustet, Passau, 120 pp.

- Waterhouse, C. O.** 1872. A new genus and species of Coleoptera allied to *Meloe*. Entomol. Mon. Mag. 9: 31-32.
- Weise, J.** 1903. Afrikanische Galerucinen. Deut. Entomol. Z. 1903: 321-336.
- Wellman, F. C.** 1909. A revision of the genus *Calospasta* LeConte. Entomol. News 20: 19-25.
- Wellman, F. C.** 1910a. On the classification of the Lyttidae (Meloidae s. Cantharidae auctt.). Entomol. News 21: 211-222.
- Wellman, F. C.** 1910b. The generic and subgeneric types of the Lyttidae (Meloidae s. Cantharidae auctt.), (Col.). Can. Entomol. 41: 389-396.
- Werner, F. G.** 1945. A revision of the genus *Epicauta* in America north of Mexico (Coleoptera, Meloidae). Bull. Mus. Comp. Zool. 95: 421-517, 7 pls.
- Werner, F. G.** 1974. A new genus of primitive Meloidae from west Texas (Coleoptera). Psyche 81: 147-154.
- Westwood, J. O.** 1841. G. Tmesidère. *Tmesidera*. Westwood. Mag. Zool. 1871, section Insectes, Pl. 85: 1-2, pl. 85.