

World catalogue of the genus-group names in Elateridae (Insecta, Coleoptera). Part I: Agrypninae, Campyloxeninae, Hemiopinae, Lissominae, Oestodinae, Parablacinae, Physodactylinae, Pityobiinae, Subprotelaterinae, Tetralobinae

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Abstract

In this first part of the World catalogue of genus-group names in Elateridae, a nomenclatural review of the genera belonging to ten subfamilies is provided. All names are given with author name, year, and page of publication, type species, and type fixation. We list 132 valid genera in Agrypninae, 2 in Campyloxeninae, 4 in Hemiopinae, 11 in Lissominae, 2 in Oestodinae, 8 in Parablacinae, 2 in Physodactylinae, 2 in Pityobiinae, 1 in Subprotelaterinae, and 7 in Tetralobinae. Genera *Anathesis* Candèze, 1865, *Antitypus* Candèze, 1882, *Chrostus* Candèze, 1878, *Dorygonus* Candèze, 1859 (with subgenus *Rygodonus* Fleutiaux, 1932), and *Macromalocera* Hope, 1834 are tentatively placed as Agrypninae *incertae sedis*. *Paradrapetes villosus* Fleutiaux, 1895 is designated as the type species for *Paradrapetes* Fleutiaux, 1895. Two new gen-

era are proposed based on species previously incorrectly used as type species for *Abiphis* Fleutiaux, 1926 and *Lycoreus* Candèze, 1857. These genera are *Neoabiphis* Kundrata & Bouchard, **gen. n.** (type species: *Elater nobilis* Illiger, 1800) and *Neolycoreus* Kundrata & Bouchard, **gen. n.** (type species: *L. regalis* Candèze, 1857), respectively. The following new combinations are proposed for species hitherto included in *Abiphis* Fleutiaux, 1926: *Neoabiphis candezei* (Alluaud, 1896), **comb. n.**, *N. fairmairei* (Fleutiaux, 1903), **comb. n.**, *N. goudoti* (Fleutiaux, 1942), **comb. n.**, *N. insignis* (Klug, 1833), **comb. n.**, *N. nobilis* (Illiger, 1800), **comb. n.**, and *N. viettei* (Girard, 1966), **comb. n.** The following new combinations are proposed for species hitherto included in *Lycoreus* Candèze, 1857: *Neolycoreus alluaudi* (Candèze, 1900), **comb. n.**, *N. corpulentus* (Candèze, 1899), **comb. n.**, *N. cyclops* (Candèze, 1865), **comb. n.**, *N. decorsei* (Fleutiaux, 1903), **comb. n.**, *N. dux* (Candèze, 1857), **comb. n.**, *N. goudotii* (Laporte, 1838), **comb. n.**, *N. madagascariensis* (Gory, 1832), **comb. n.**, *N. oculipennis* (Fairmaire, 1903), **comb. n.**, *N. orbiculatus* (Schwarz, 1901), **comb. n.**, *N. regalis* (Candèze, 1857), **comb. n.**, *N. sicardi* (Fleutiaux, 1942), **comb. n.**, *N. triangularis* (Fleutiaux, 1942), **comb. n.**, *N. triocellatus* (Laporte, 1838), **comb. n.**, and *N. vicinus* (Fleutiaux, 1942), **comb. n.** The following new combinations are proposed for species hitherto incorrectly included in *Plectrostermus* Lacordaire, 1857: *Legna rufa* (Lacordaire, 1857), **comb. n.**, *L. convexa* (Vats, 1991), **comb. n.**, *L. coolsi* (Schimmel, 1996), **comb. n.**, and *L. foveata* (Patwardhan & Athalye, 2012), **comb. n.** This research revealed a nomenclatural problem threatening the stability of the well-established valid genus name *Adelocera* Latreille, 1829. An application to the International Commission on Zoological Nomenclature will be necessary in this case to maintain stability. Additionally, we act here as First Revisers (ICZN 1999, Art. 24.2) in giving precedence to *Lucarius* Gistel, 1848 (Staphylinidae) over *Lucarius* Gistel, 1848 (Elateridae).

Keywords

Classification, click-beetles, Elateroidea, new combinations, new genera, nomenclature, Staphylinidae, systematics

Introduction

Elateridae, commonly known as click-beetles, is a large beetle family containing approximately 10,000 described species worldwide (Costa et al. 2010). Although they are well-known and usually easy-to-recognise as a family, even for non-specialists, the limits of, as well as phylogenetic interrelationships within, Elateridae are still in flux (e.g., Lawrence and Newton 1995; Costa et al. 2010; Douglas 2011; Kundrata and Bocak 2011; Kundrata et al. 2016, 2018a; Douglas et al. 2018; Bocak et al. 2018). Various suprageneric classifications have been proposed for the family, and also generic limits often considerably vary between different authors (e.g., Fleutiaux 1947a; Hayek 1973; Gurjeva 1974a, b; Dolin 1975; Stibick 1979; Calder 1996; Sánchez-Ruiz 1996; Cate et al. 2007; Costa et al. 2010; Kundrata et al. 2018a). Although recent catalogues are available for some world regions (e.g., Golbach 1994, Calder 1996, Cate et al. 2007, Arias-Bohart and Elgueta 2012, Zapata and Sánchez-Ruiz 2012, Bousquet et al. 2013, Aguirre-Tapiero and Johnson 2014, Johnson and Chaboo 2015, Platia and Ghahari 2016, Girard 2017, Tarnawski et al. 2018) or for certain suprageneric groups (e.g., Schimmel 1999, 2003, 2004, 2005; Tarnawski 1996, 2001; Schimmel et al. 2015, 2016; Schimmel and Tarnawski 2009, 2010, 2012; Douglas 2017; Kubackzova and Kundrata 2017; Kundrata et al. 2018b, c), a comprehensive catalogue of the world

Elateridae fauna is not available. Therefore, many recent studies on Elateridae still follow works by Candèze (1857, 1859, 1860, 1863, 1891), Schwarz (1906a, 1907), and Schenkling (1925, 1927). Those authors, however, did not include data on the type species and type fixation in their catalogues. The study of diversity, taxonomy, phylogeny, and biogeography of Elateridae is not possible without genus-group name concepts which are consistent with regulations from the International Commission on Zoological Nomenclature (ICZN 1999). The first attempt to cover all genus-group names in Elateridae was by Hyslop (1921), followed by additions to that catalogue by Arnett (1955). However, despite their great effort, these authors introduced some nomenclatural inconsistencies, and new supraspecific names in Elateridae have been proposed since that time. Therefore, it is necessary to update the information on genus-group names for Elateridae, and correct these errors still commonly repeated by contemporary authors.

By compiling this catalogue, we work to provide a summary of all genus-group names including synonymies, misspellings, and their availability in the sense of the International Code of Zoological Nomenclature (ICZN 1999). We also indicate the type species for all genera including information on their designations, give the systematic position of each genus according to the most recent studies, and provide a robust framework for future Elateridae workers. This catalogue could serve as a starting point for future Elateridae-related studies, not only focused on systematics but also on diversity, evolution, biogeography, and nature conservation.

Materials and methods

We compiled all genus-group names in the Elateridae subfamilies Agrypninae, Campyloxeninae, Hemiopinae, Lissominae, Oestodinae, Parablacinae, Physodactylinae, Pit-yobiinae, and Tetralobinae. Genus-group names in Elaterinae, Thylacosterninae, Morostomatinae, Plastocerinae, Negastrinae, Cardiophorinae and Dendrometrinae sensu lato (including e.g., Hypnoidini, Oxynopterini, Semiotini, Dimini and Senodoniini) will be treated in the next parts of the catalogue. The family classification follows the Handbook of Zoology (Costa et al. 2010), with additional changes proposed by Bouchard et al. (2011; family-group names), Kundrata and Bocak (2011, several classification changes based on the molecular phylogeny), Schimmel and Tarnawski (2012, description of the tribe Tetrigusina), Kundrata et al. (2016, description of the subfamily Parablacinae), and Kundrata et al. (2018a, subfamilial rank proposed for Tetralobinae). A synopsis of this suprageneric classification of extant Elateridae is given in Table 2 in Kundrata et al. (2018a).

The generic compositions of the tribes and subfamilies treated in this study are as follows: Agrypnini sensu Hayek (1973, 1979, as Agrypninae, but excluding *Lanelater* Arnett, 1952), with genera added by Chassain (1983), Gurjeva (1987) and Arias-Bohart (2014), and changes by Gurjeva (1977), Cate et al. (2007), and Girard (2017); Anaissini sensu Golbach (1984), including *Alampina* of Costa (1975); Euplinthini

sensu Costa (1975), with changes by Johnson (2002b) and Arias-Bohart and Elgueta (2012); Drilini sensu Kundrata and Bocak (2011, 2017); Hemirhipini sensu Casari (2008; but excluding *Anthracalaus* Fairmaire, 1888), with changes by Patwardhan et al. (2009), Schimmel and Tarnawski (2012), and Arimoto and Arimoto (2017); Oophorini sensu Johnson (1995, 1997) and Cate et al. (2007), with changes by Calder (1996), Platia (2007, 2012), and Girard (2017); Pseudomelanactini sensu Johnson (2002a); Pyrophorini sensu Costa (1975), plus *Metapyrophorus* Rosa & Costa, 2009; Campyloxeninae sensu Costa (1975), plus *Malalcahuello* Arias-Bohart, 2015; Hemiptopinae sensu Lawrence et al. (1999), with an additional genus transferred there by Douglas (2011); Lissominae sensu Lawrence and Arias (2009) and Arias-Bohart (2013), but excluding Oestodinae (see Kundrata et al. 2016); Oestodinae sensu Johnson (2002a; as Oestodini) and Kundrata et al. (2016); Parablacinae sensu Kundrata et al. (2016), plus *Sharon* Arias-Bohart & Elgueta, 2015; Physodactylinae sensu Rosa (2014); Pityobiinae sensu Kundrata et al. (2016); Subprotelaterinae sensu Costa et al. (2010), and Tetralobinae sensu Costa et al. (1994) and Kubackova and Kundrata (2017). Only extant taxa are included in the catalogue.

The names of the family-, genus- and species-group taxa are given with the name of the author, and the year and page of publication. The page given is the page where the taxon name and description are printed, except for the generic names first introduced in catalogues and made available by including one or more available species names (ICZN 1999, Art. 12.2.5). When a work was published in various parts we determined the oldest part in which a particular name became available for the first time, following the Principle of Priority (ICZN 1999, Art. 23.1). A search for each genus-group name was performed in the hundreds of publications dealing with Elateridae and its relatives, including all works cited here but also numerous other taxonomic revisions, regional faunistic studies, and checklists, general entomological books, etc. Additionally, we checked the online version of the Nomenclator Zoologicus (<http://www.ubio.org/NomenclatorZoologicus/>) to look for potentially important information on authorship, dates of publication and homonyms. The year and page given for the incorrect subsequent spellings are the first year and page in which they are used. Incorrect subsequent spellings not in prevailing usage are unavailable (ICZN 1999, Art. 33.3). Complete data and comments for family- and genus-group names are presented with the lowest-rank name (e.g., tribe rather than subfamily, subgenus not genus), since these criteria follow the Principle of Coordination (ICZN 1999, Art. 36.1 and 43.1). The detailed information for family-group names is given in Bouchard et al. (2011) and is not repeated here. We provide the type species for each genus-group name, including information on its designation (i.e., original designation, monotypy, and in the case of subsequent designation we provide author, year and page). New type species designations are proposed as needed to preserve taxonomic stability (ICZN 1999, Art. 69). We do not repeat type species and their fixations for replacement names as “both the prior nominal taxon and its replacement have the same type species, and type fixation for either applies also to the other, despite any statement to the contrary” (ICZN 1999, Art. 67.8). Under each family- and

genus-group name, the currently valid name is listed the first, followed by synonyms in chronological order. Misspellings, unavailable names, and corrected stem formations are followed by colon “:”. Dates of publications and exact bibliographic references (especially problematic ones, often not cited uniformly by researchers) are taken from the following comprehensive general works: Evenhuis (1997), Cate et al. (2007), Bouchard et al. (2011), Bousquet and Bouchard (2013, 2017), Nagel and Schmidlin (2014), and Bousquet (2016).

Catalogue

Family Elateridae Leach, 1815

Elaterides Leach, 1815: 85. Type genus: *Elater* Linnaeus, 1758. As pointed out by several authors, e.g., Lawrence and Newton (1995) and Bouchard et al. (2011), the oldest name for this family is Cebrionidae Latreille, 1802. In 2011, a formal application to maintain usage of Elateridae over Cebrionidae was submitted by PJ Johnson for publication in the Bulletin of Zoological Nomenclature, and for an eventual vote by the International Commission on Zoological Nomenclature (ICZN). A notice for the reception of this new Case was published in December 2011 (ICZN 2011). The ICZN later closed this Case without further comments (ICZN 2012). Based on reviews by three ICZN Commissioners it had been decided that the Case is covered by Article 35.5 of the International Code of Zoological Nomenclature (ICZN 1999), and that no further actions were needed (ICZN Secretariat, personal communication). The same reasoning supports conserving usage of Elateroidea Leach, 1815 over Cebrionoidea Latreille, 1802.

Elateriadae: Arnett et al. 1969: 9 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Subfamily Agrypninae Candèze, 1857

Agrypnides Candèze, 1857: 17. Type genus: *Agrypnus* Eschscholtz, 1829. The *nomen protectum* Agrypninae Candèze, 1857 was given precedence for subfamily name over the *nomen oblitum* Oophorinae Gistel, 1848 (ICZN 1999, Art. 35.5) by Bouchard et al. (2011).

Tribe Agrypnini Candèze, 1857

Adeloceraeidae Gistel, 1848a: [5]. Type genus: *Adelocera* Latreille, 1829. *Nomen oblitum*, incorrect original stem formation, not in prevailing usage; see Bouchard et al. (2011).

- Pangauradae Gistel, 1856: 366. Type genus: *Pangaura* Gistel, 1856 (syn. of *Lacon* Laporte, 1838). *Nomen oblitum*, incorrect original stem formation, not in prevailing usage; see Bouchard et al. (2011).
- Agrypnides Candèze, 1857: 17. Type genus: *Agrypnus* Eschscholtz, 1829. *Nomen protectum*; see Bouchard et al. (2011).
- Octocryptites: Candèze 1892: 486 [unavailable name, see Bouchard et al. 2011].
- Adelocerini Buysson, 1893: 15. Type genus: *Adelocera* Latreille, 1829. Family-group name proposed as new without reference to Adeloceridae Gistel, 1848.
- Octocryptini Schwarz, 1906a: 31. Type genus: *Octocryptus* Candèze, 1892.
- Octocrytinae: Fleutiaux 1927a: 99 [incorrect stem formation (ICZN 1999, Art. 29.3)].
- Agripninae: Miwa 1927: 12 [incorrect stem formation (ICZN 1999, Art. 29.3)].
- Cavicoxumidae Pic, 1928: 21. Type genus: *Cavicoxum* Pic, 1928 (syn. of *Agraeus* Candèze, 1857). Incorrect original stem formation, not in prevailing usage.
- Cavicoxidae: Arnett 1962: 497. Correct stem formation of Cavicoxumidae Pic, 1928.
- Laconini Dajoz, 1964: 60. Type genus: *Lacon* Laporte, 1838.
- Pangauridae: Lawrence and Newton 1995: 854. Correct stem formation of Pangauradae Gistel, 1856.

Genus *Acrocryptus* Candèze, 1874

- Cryptotarsus* Philippi, 1873: 308. Gender: masculine. Type species: *Cryptotarsus ater* Philippi, 1873: 308, by monotypy. Preoccupied by *Cryptotarsus* Kirsch, 1865: 88 [Coleoptera: Melyridae: Malachiinae].
- Acrocryptus* Candèze, 1874: 39. Gender: masculine. Replacement name for *Cryptotarsus* Philippi, 1873.
- Hexaulacus* Candèze, 1874: 40. Gender: masculine. Type species: *Hexaulacus reedi* Candèze, 1874: 40, by monotypy. Synonymised by Golbach (1970: 307).

Genus *Adelocera* Latreille, 1829

- Adelocera* Latreille, 1829: 451. Gender: feminine. Type species: The widely accepted type species for this genus is *Elater ovalis* Germar, 1823: 49, by subsequent designation (Hyslop 1921: 623). However the valid type species is *Elater fuscus* Fabricius, 1801: 228 (non Schrank, 1781, nec Geoffroy, 1785), by subsequent designation (Duponchel 1840: 119). Since *Elater fuscus* Fabricius, 1801 is currently placed in the genus *Agrypnus* Eschscholtz, 1829, an application asking the International Commission on Zoological Nomenclature to set aside the earlier type species designation by Duponchel is necessary to conserve *Adelocera* Latreille, 1829 as the valid name of this genus.

- Pericus* Candèze, 1857: 167. Gender: masculine. Type species: *Pericus nitidus* Candèze, 1857: 167, by monotypy. Synonymised with *Adelocera* Latreille, 1829 by Hayek (1973: 13).
- Brachylacon* Motschulsky, 1858: 60. Gender: masculine. Type species: *Brachylacon microcephalus* Motschulsky, 1858: 60, by monotypy. Synonymised with *Adelocera* Latreille, 1829 by Hayek (1973: 13).
- Adolocera*: Candèze 1860: 110 [unavailable name, incorrect subsequent spelling not in prevailing usage].
- Prolacon* Fleutiaux, 1934a: 179. Gender: masculine. Type species: *Prolacon alluaudi* Fleutiaux 1934a: 179, by monotypy. Synonymised with *Adelocera* Latreille, 1829 by Hayek (1973: 13).
- Aganolacon* Ôhira, 1967a: 55. Gender: masculine. Type species: *Aganolacon shirozui* Ôhira, 1967a: 55, by original designation. Synonymised with *Adelocera* Latreille, 1829 by Hayek (1973: 13).
- Brachylason*: Dolin 1978: 6 [unavailable name, incorrect subsequent spelling not in prevailing usage].
- Adellocera*: Uniyal and Vats 1988: 49 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Agraeus* Candèze, 1857

- Agraeus* Candèze, 1857: 165. Gender: masculine. Type species: *Agraeus mannerheimii* Candèze, 1857: 166, by monotypy.
- Trachylacon* Motschulsky, 1858: 60. Gender: masculine. Type species: *Trachylacon fulvicollis* Motschulsky 1858: 61, by subsequent designation (Hyslop 1921: 672). Synonymised with *Agraeus* Candèze, 1857 by Schwarz (1906a: 27).
- Trochylacon*: Motschulsky 1858: 61 [unavailable name, incorrect original spelling (ICZN 1999, Art. 19.3); First Reviser (ICZN 1999, Art. 24.2): Motschulsky (1869: 34)].
- Cavicoxum* Pic, 1928: 21. Gender: neuter. Type species: *Cavicoxum monstrosum* Pic, 1928: 21, by monotypy. Synonymised with *Agraeus* Candèze, 1857 by Fleutiaux (1931: 74).

Genus *Agrypnus* Eschscholtz, 1829

- Agrypnus* Eschscholtz, 1829: 32. Gender: masculine. Type species: *Elater murinus* Linnaeus, 1758: 406, by subsequent designation (Curtis 1838: 694), see Sánchez-Ruiz (1996: 43).

- Mecynocanthus* Hope, 1837: 53. Gender: masculine. Type species: *Mecynocanthus unicolor* Hope, 1837: 53, by monotypy. Synonymised with *Agrypnus* Eschscholtz, 1829 by Hayek (1973: 113).
- Agrypnus*: Laporte 1838: 10 [unavailable name, incorrect subsequent spelling not in prevailing usage].
- Tylotarsus* Germar, 1840: 247. Gender: masculine. Type species: *Tylotarsus cincitipes* Germar, 1840: 248, by monotypy. Synonymised with *Agrypnus* Eschscholtz, 1829 by Hayek (1973: 113).
- Tilotarsus*: Candèze 1857: 86 [unavailable name, incorrect subsequent spelling not in prevailing usage].
- Myrmodes* Candèze, 1857: 168. Gender: masculine. Type species: *Myrmodes akidiformis* Candèze, 1857: 169, by monotypy. Synonymised with *Agrypnus* Eschscholtz, 1829 by Hayek (1973: 113).
- Archontas* Gozis, 1886: 23. Gender: masculine. Type species: *Elater murinus* Linnaeus, 1758: 406, by monotypy. Junior objective synonym of *Agrypnus* Eschscholtz, 1829.
- Pseudolacon* Blackburn, 1890: 89. Gender: masculine. Type species: *Pseudolacon rufus* Blackburn, 1890: 90, by monotypy. Synonymised with *Agrypnus* Eschscholtz, 1829 by Hayek (1973: 113).
- Homoeolacon* Blackburn, 1890: 90. Gender: masculine. Type species: *Homoeolacon gracilis* Blackburn, 1890: 91, by monotypy. Synonymised with *Agrypnus* Eschscholtz, 1829 by Hayek (1973: 113).
- Enoploderes* Schwarz, 1898a: 131. Gender: masculine. Type species: *Elater cuspidatus* Klug, 1833: 66, by monotypy. Preoccupied by *Enoploderes* Faldermann, 1837: 309 [Coleoptera: Cerambycidae].
- Centrostethus* Schwarz, 1898b: 414. Gender: masculine. Replacement name for *Enoploderes* Schwarz, 1898a. Synonymised with *Agrypnus* Eschscholtz, 1829 by Hayek (1973: 113).
- Paralacon* Reitter, 1905: 6. Gender: masculine. Type species: *Lacon cinnamomeus* Candèze, 1874: 76, by monotypy. Synonymised with *Agrypnus* Eschscholtz, 1829 by Hayek (1973: 113).
- Centhrostethus*: Hyslop 1921: 634 [unavailable name, incorrect subsequent spelling not in prevailing usage].
- Aprypnus*: Winkler and Buysson in Winkler, 1925: 578 [unavailable name, incorrect subsequent spelling not in prevailing usage].
- Tyloarsus*: Fleutiaux 1934b: 59 [unavailable name, incorrect subsequent spelling not in prevailing usage].
- Colaulon* Arnett, 1952: 116. Gender: masculine. Type species: *Elater rectangularis* Say, 1825: 263, by original designation. Synonymised with *Agrypnus* Eschscholtz, 1829 by Hayek (1973: 113).
- Agryphus*: Arnett 1955: 611 [unavailable name, incorrect subsequent spelling not in prevailing usage].

- Cryptolacon* Nakane & Kishii, 1955: 1. Gender: masculine. Type species: *Cryptolacon miyamotoi* Nakane & Kishii, 1955: 1, by original designation. Synonymised with *Agrypnus* Eschscholtz, 1829 by Hayek (1973: 113).
- Sabikikorius* Nakane & Kishii, 1955: 3. Gender: masculine. Type species: *Lacon fuliginosus* Candèze, 1865: 10, by original designation. Synonymised with *Agrypnus* Eschscholtz, 1829 by Hayek (1973: 113).
- Sagojyo* Kishii, 1964: 30. Gender: masculine. Type species: *Colaulon (Sagojyo) yuppe* Kishii, 1964: 31, by original designation. Synonymised with *Agrypnus* Eschscholtz, 1829 by Hayek (1973: 113).
- Archontoides* Cobos, 1966: 651. Gender: masculine. Type species: *Archontoides preto-riensis* Cobos, 1966: 652, by monotypy. Synonymised with *Agrypnus* Eschscholtz, 1829 by Hayek (1973: 113).
- Pyrganus* Golbach, 1968: 198. Gender: masculine. Type species: *Lacon tuspanensis* Candèze, 1857: 157, by original designation. Synonymised with *Agrypnus* Eschscholtz, 1829 by Hayek (1973: 113).
- Sagojo*: Ôhira 1968: 364 [unavailable name, incorrect subsequent spelling not in prevailing usage].
- Homeolacon*: Hayek 1973: 113. [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Candanius* Hayek, 1973

- Anius* Candèze, 1889: 103. Gender: masculine. Type species: *Anius gracillimus* Candèze, 1889: 103, by monotypy. Preoccupied by *Anius* Pascoe, 1885: 312 [Coleoptera: Curculionidae].
- Candanius* Hayek, 1973: 85. Gender: masculine. Replacement name for *Anius* Candèze, 1889.

Genus *Carlota* Arias-Bohart, 2014

- Carlota* Arias-Bohart, 2014: 59. Gender: feminine. Type species: *Carlota coigue* Arias-Bohart, 2014: 60, by original designation.

Genus *Christinea* Gurjeva, 1987

- Christinea* Gurjeva, 1987: 39. Gender: feminine. Type species: *Christinea mirabilis* Gurjeva, 1987: 39, by original designation.

Genus *Compsolacon* Reitter, 1905

Compsolacon Reitter, 1905: 6. Gender: masculine. Type species: *Elater crenicollis* Ménériés, 1832: 156, by monotypy. Removed from synonymy with *Agrypnus* Eschscholtz, 1829 by Gurjeva (1977: 793); generic status confirmed by Prosvirov and Savitsky (2011: 760).

Neolacon Miwa, 1929: 234. Gender: masculine. Type species: *Neolacon formosanus* Miwa, 1929: 235, by original designation. Synonymised with *Compsolacon* Reitter, 1905 by Miwa (1934: 14).

Nealacon: Miwa 1930: 91 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Campsolacon: Gurjeva 1974b: 72 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Compresselater* Platia & Gudenzi, 2006

Compresselater Platia & Gudenzi, 2006: 132. Gender: masculine. Type species: *Compresselater bicolor* Platia & Gudenzi, 2006: 133, by original designation.

Genus *Danosoma* C.G. Thomson, 1859

Danosoma C.G. Thomson, 1859: 103. Gender: neuter. Type species: *Elater conspersus* Gyllenhal, 1808: 377, by original designation.

Delox: Quelle 1932: 208 [unavailable name, no type species originally designated (ICZN 1999, Art. 13.3); not made available subsequently, Arnett (1955: 607) listed it in synonymy with *Danosoma* CG Thomson, 1859].

Danasoma: Gülperçin and Tezcan 2010: 2 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Dilobitarsus* Latreille, 1834

Dilobitarsus Latreille, 1834: 142. Gender: masculine. Type species: *Dilobitarsus tuberculatus* Latreille, 1834: 143 (syn. of *Elater bidens* Fabricius, 1801: 227), by monotypy.

Dilobotarsus Agassiz, 1846: 124. Gender: masculine. Unjustified emendation of *Dilobitarsus* Latreille, 1834, not in prevailing usage.

Anacantha Solier, 1851: 18. Gender: feminine. Type species: *Anacantha sulcicollis* Solier, 1851: 18, by original designation. Synonymised with *Dilobitarsus* Latreille, 1834 by Hayek (1973: 93).

Genus *Eidolus* Candèze, 1857

Eidolus Candèze, 1857: 178. Gender: masculine. Type species: *Eidolus linearis* Candèze, 1857: 179, by monotypy.

Genus *Elasmosomus* Schwarz, 1902

Elasmosomus Schwarz, 1902a: 212. Gender: masculine. Type species: *Elasmosomus fasciculatus* Schwarz, 1902a: 214, by subsequent designation (Hyslop 1921: 643).

Genus *Hemicleus* Candèze, 1857

Hemicleus Candèze, 1857: 180. Gender: masculine. Type species: *Hemicleus caffer* Candèze, 1857: 181, by monotypy.

Genus *Lacon* Laporte, 1838

Lepidotus Stephens, 1830: 374. Gender: masculine. Type species: *Elater varius* Olivier, 1790: 32 (syn. of *Elater querceus* Herbst, 1784: 113), by subsequent designation (Hyslop 1921: 652). Preoccupied by *Lepidotus* Asso, 1801: 38 [Pisces].

Lacon Laporte, 1838: 11. Gender masculine ⁽¹⁾. Type species: *Elater atomarius* Fabricius, 1798: 139 (syn. of *Elater punctatus* Herbst, 1784: 110), by subsequent designation (Hyslop 1921: 652).

Pangaura Gistel, 1856: 366. Gender: feminine. Type species: *Elater varius* Olivier, 1790: 32 (syn. of *Elater querceus* Herbst, 1784: 113), by Sánchez-Ruiz (1996: 44). Senior objective synonym of *Zalepia* Arnett, 1953.

Ocneus Candèze, 1857: 84. Gender: masculine. Type species: *Ocneus limbatus* Candèze, 1857: 85, by monotypy. Synonymised with *Lacon* Laporte, 1838 by Hayek (1973: 52).

Ochneus: Desmarest 1860: 24 [unavailable name, incorrect subsequent spelling not in prevailing usage].

¹ The gender of this genus has been contentious in the past. Under the provisions of Art. 30 of the Code (ICZN 1999), and because of the lack of any etymology from Laporte (1838), it may correspond to the Greek word *Λάκων* (a Laconian or Spartan man), transliterated without changes as *Lacon* following the Art. 30.1.2. In the Greek dictionaries, this word is masculine, so the genus is masculine too, as well as all the genera having *-lacon* as their last component.

- Scelisus* Candèze, 1863: 327. Gender: masculine. Type species: *Scelisus sanguineus* Candèze, 1863: 328, by monotypy. Synonymised with *Lacon* Laporte, 1838 by Hayek (1973: 52).
- Alaotypus* Schwarz, 1902b: 307. Gender: masculine. Type species: *Alaotypus subpectinatus* Schwarz, 1902b: 308, by subsequent designation (Hyslop 1921: 625). Synonymised with *Adelocera* Latreille, 1829 (sensu auct., = *Lacon* Laporte, 1838) by Fleutiaux (1918b: 183); syn. of *Lacon* Laporte, 1838 (see Hayek 1973: 52).
- Aulacon* Arnett, 1952: 112. Gender: masculine. Type species: *Adelocera nobilis* Fall, 1932: 58, by original designation. Synonymised with *Lacon* Laporte, 1838 by Hayek (1973: 53).
- Diphyaulon* Arnett, 1952: 111. Gender: neuter. Type species: *Adelocera pyrsolepis* LeConte, 1866: 389, by original designation. Synonymised with *Lacon* Laporte, 1838 by Hayek (1973: 53).
- Zalepia* Arnett, 1953: 7. Gender: feminine. Replacement name for *Lepidotus* Stephens, 1830. Synonymised with *Lacon* Laporte, 1838 by Hayek (1973: 53). Junior objective synonym of *Pangaura* Gistel, 1856.
- Kobulacon* Chùjô & Ôhira, 1965: 2. Gender: masculine. Type species: *Lacon quadrinodatus* Lewis, 1894: 28, by original designation. Synonymised with *Lacon* Laporte, 1838 by Hayek (1973: 53).
- Arnettia* Golbach, 1969b: 155. Gender: feminine. Type species: *Adelocera aberrans* Candèze, 1874: 23, by monotypy. Synonymised with *Lacon* Laporte, 1838 by Hayek (1973: 53).
- Cornilacon* Golbach, 1969b: 158. Gender: masculine. Type species: *Adelocera longicornis* Champion, 1894: 261, by original designation. Synonymised with *Lacon* Laporte, 1838 by Hayek (1973: 53).
- Latilacon* Golbach, 1969b: 158. Gender: masculine. Type species: *Adelocera laticollis* Candèze, 1857: 59, by original designation. Synonymised with *Lacon* Laporte, 1838 by Hayek (1973: 53).
- Monocyrtion* Golbach, 1969b: 156. Gender: neuter. Type species: *Adelocera chabannii* Guérin-Ménéville, 1829: plate 12, by original designation. Synonymised with *Lacon* Laporte, 1838 by Hayek (1973: 53).
- Lepidelater* Smith in Arnett et al. 1969: 11. Gender: masculine. Type species: *Lepidelater misticius* Mignot in Arnett et al. 1969: 12, by original designation. Synonymised with *Lacon* Laporte, 1838 by Hayek (1973: 53).
- Lason*: Dolin 1978: 6 [unavailable name, incorrect subsequent spelling not in prevailing usage].
- Alaeotypus*: Carpenter 1992: 305 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Lobotarsus* Schwarz, 1898

Lobotarsus Schwarz, 1898a: 131. Gender: masculine. Type species: *Lobotarsus decoratus* Schwarz, 1898a: 131, by subsequent designation (Hyslop 1921: 653). Synonymised with *Agrypnus* Eschscholtz, 1829 by Hayek (1973: 113) but removed from synonymy by Girard (2017: 27).

Lobitarsus: Fleutiaux 1935: 93 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Meristhus* Candèze, 1857

Meristhus Candèze, 1857: 162. Gender: masculine. Type species: *Elater lepidotus* Palisot de Beauvois, 1805: 11, by subsequent designation (Desmarest 1860: 24).

Subgenus *Meristhus* Candèze, 1857

Meristhus Candèze, 1857: 162. Gender: masculine. Type species: *Elater lepidotus* Palisot de Beauvois, 1805: 11, by subsequent designation (Desmarest 1860: 24).

Rhaciaspis Arnett, 1952: 121. Gender: feminine. Type species: *Elater lepidotus* Palisot de Beauvois, 1805: 11, by original designation. Junior objective synonym of *Meristhus* Candèze, 1857.

Rhasciapis: Golbach 1969a: 141 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Meristus: Dolin 1975: 1625 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Subgenus *Sulcimerus* Arnett, 1955

Sulcimerus: Fleutiaux 1947a: 255 [unavailable name, no type species originally designated (ICZN 1999, Art. 13.3)].

Sulcimerus Arnett, 1955: 617. Gender: masculine. Type species: *Meristhus quadripunctatus* Candèze, 1857: 163, by original designation.

Genus *Octocryptus* Candèze, 1892

Octocryptus Candèze, 1892: 486. Gender: masculine. Type species: *Octocryptus cardoni* Candèze, 1892: 487, by monotypy.

Octorcryptus: Gurjeva 1974b: 72 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Optaleus* Candèze, 1857

Optaleus Candèze, 1857: 86. Gender: masculine. Type species: *Optaleus limbatus* Candèze, 1857: 87, by subsequent designation (Hyslop 1921: 660).

Opatelus: Hayek 1973: 6 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Rismethus* Fleutiaux, 1947

Rismethus Fleutiaux, 1947a: 257. Gender: masculine. Type species: *Meristhus scobinula* Candèze, 1857: 164, by original designation.

Genus *Saudilacon* Chassain, 1983

Saudilacon Chassain, 1983: 138. Gender: masculine. Type species: *Saudilacon ochraceus* Chassain, 1983: 138, by original designation.

Genus *Scaphoderus* Candèze, 1857

Scaphoderus Candèze, 1857: 46. Gender: masculine. Type species: *Scaphoderus rieblii* Candèze, 1857: 46, by monotypy.

Bruyantius Fleutiaux, 1925: 101. Gender: masculine. Type species: *Bruyantius capensis* Fleutiaux, 1925: 102, by monotypy. Synonymised with *Scaphoderus* Candèze, 1857 by Hayek (1973: 51).

Genus *Stangellus* Golbach, 1975

Stangellus Golbach, 1975: 256. Gender: masculine. Type species: *Stangellus bucheri* Golbach, 1975: 257, by monotypy.

Genus *Sulcilacon* Fleutiaux, 1927

Sulcilacon Fleutiaux, 1927a: 65. Gender: masculine. Type species: *Adelocera geographica* Candèze, 1865: 7, by original designation. Synonymised with *Lacon* Laporte, 1838 by Hayek (1973: 52) but removed from synonymy by Girard (2017: 7).

Genus *Trieres* Candèze, 1900

Trieres Candèze, 1900: 78. Gender feminine (²). Type species: *Trieres ramitarsus* Candèze, 1900: 78, by monotypy.

Triers: Hayek 1973: 7, 239 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Tribe Anaissini Golbach, 1984

Alampina Costa, 1975: 54. Type genus: *Alampes* Champion, 1896 [preoccupied genus name, not *Alampes* Horváth, 1884 [Hemiptera: Lygaeidae]]; permanently invalid (Art. 39): based on preoccupied type genus.

Anaissini Golbach, 1984: 81. Type genus: *Anaïssus* Candèze, 1857.

Genus *Agnostelater* Costa, 1975

Agnostelater Costa, 1975: 55. Gender: masculine. Type species: *Pyrophorus mesochrous* Germar, 1843: 91, by original designation.

Genus *Alampoides* Schwarz, 1906a

Alampoides Schwarz, 1906a: 216. Gender: masculine. Type species: *Pyrophorus submaculatus* Schwarz, 1902a: 287, by subsequent designation (Hyslop 1921: 625).

Genus *Anaïssus* Candèze, 1857

Anaïssus Candèze, 1857: 187. Gender: masculine. Type species: *Anaïssus tarsalis* Candèze, 1857: 188, by monotypy.

Subgenus *Anaïssus* Candèze, 1857

Anaïssus Candèze, 1857: 187. Gender: masculine. Type species: *Anaïssus tarsalis* Candèze, 1857: 188, by monotypy.

² Latinised form of the Greek noun *τριήρης* (a trireme, in allusion to the dilated tarsi of its type species). According to the provisions of the ICZN (1999, Art. 30.1.2), if the noun is feminine, the genus is also feminine. The specific name *ramitarsus* can be considered a noun in apposition.

Subgenus *Auctumnalis* Calder, 1978

Auctumnalis Calder, 1978: 303. Gender: masculine. Type species: *Anaïssus aurantium* Calder, 1978: 303, by original designation.

Genus *Coctilelater* Costa, 1975

Coctilelater Costa, 1975: 64. Gender: masculine. Type species: *Alampes corymbitoides* Candèze, 1900: 95, by original designation.

Genus *Peralampes* Johnson, 2002

Alampes Champion, 1896: 474. Gender: masculine. Type species: *Alampes vestitus* Champion, 1896: 474, by subsequent designation (Hyslop 1921: 624). Preoccupied by *Alampes* Horváth, 1884: 10 [Hemiptera: Lygaeidae].

Peralampes Johnson, 2002b: 16. Gender: masculine. Replacement name for *Alampes* Champion, 1896.

Tribe Euplinthini Costa, 1975

Euplinthina Costa, 1975: 66. Type genus: *Euplinthus* Costa, 1975. Bouchard et al. (2011) acted as First Revisers (ICZN 1999, Art. 24.2) (Compsoplinthina Costa, 1975 vs. Euplinthina Costa, 1975)].

Subtribe Cleidecostina Johnson, 2002

Heligmini Costa, 1975: 53. Type genus: *Heligmus* Candèze, 1865 [preoccupied genus name, not *Heligmus* Dujardin, 1845 [Nematoda]]; permanently invalid (ICZN 1999, Art. 39): based on preoccupied type genus (see Bouchard et al. 2011).

Cleidecostini Johnson, 2002b: 16. Type genus: *Cleidecosta* Johnson, 2002. Replacement name for Heligmini Costa, 1975 because of the homonymy of the type genus.

Genus *Cleidecosta* Johnson, 2002

Heligmus Candèze, 1865: 52. Gender: masculine. Type species: *Heligmus glyphoderus* Candèze, 1865: 52, by monotypy. Preoccupied by *Heligmus* Dujardin, 1845: 147 [Nematoda].

Cleidecosta Johnson, 2002b: 16. Gender: feminine. Replacement name for *Heligmus* Candèze, 1865.

Genus *Meroplinthus* Candèze, 1891

Meroplinthus Candèze, 1891: 163. Gender: masculine. Type species: *Pyrophorus trinotatus* Candèze, 1882: 91, by subsequent designation (Hyslop 1921: 657).

Meorplinthus: Gurjeva 1974b: 72 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Pyrischius* Hyslop, 1921

Ischius Candèze, 1857: 195. Gender: masculine. Type species: *Ischius gerstaeckeri* Candèze, 1857: 196, by monotypy. Preoccupied by *Ischius* Wesmael, 1837: 20 [Hymenoptera].

Pyrischius Hyslop, 1921: 668. Gender: masculine. Replacement name for *Ischius* Candèze, 1857.

Subtribe *Compsoplinthina* Costa, 1975

Compsoplinthina Costa, 1975: 71. Type genus: *Compsoplinthus* Costa, 1975.

Genus *Compsoplinthus* Costa, 1975

Compsoplinthus Costa, 1975: 71. Gender: masculine. Type species: *Pyrophorus ruber* Candèze, 1878b: clxix, by original designation.

Subtribe *Euplinthina* Costa, 1975

Euplinthina Costa, 1975: 66. Type genus: *Euplinthus* Costa, 1975.

Genus *Arcanelater* Costa, 1975

Arcanelater Costa, 1975: 66. Gender: masculine. Type species: *Pyrophorus spurius* Germar, 1841: 56, by original designation.

Genus *Euplinthus* Costa, 1975

Euplinthus Costa, 1975: 67. Gender: masculine. Type species: *Monocrepidius ophthalmicus* Perty, 1830: 21, by original designation.

Genus *Paraphileus* Candèze, 1882

Paraphileus Candèze, 1882: 92. Gender: masculine. Type species: *Aphanobius thoreyi* Germar, 1844: 188, by monotypy.

Tribe Drilini Blanchard, 1845

Drilites Blanchard, 1845: 53. Type genus: *Drilus* Olivier, 1790.

Genus *Drilus* Olivier, 1790

Drilus Olivier, 1790: [23] 1. Gender: masculine. Type species: *Ptilinus flavescens* Geoffroy, 1785: 4, by monotypy.

Cochleoctonus Mielzinsky, 1824: 74. Gender: masculine. Type species: *Cochleoctonus vorax* Mielzinsky, 1824: 75, by monotypy. Synonymised with *Drilus* Olivier, 1790 by Desmarest (1824: 268).

Genus *Flabelloselasia* Kundrata & Bocak, 2017

Flabelloselasia Kundrata & Bocak, 2017: 443. Gender: feminine. Type species: *Flabelloselasia oculata* Kundrata & Bocak, 2017: 445, by original designation.

Genus *Kupeselasia* Kundrata & Bocak, 2017

Kupeselasia Kundrata & Bocak, 2017: 448. Gender: feminine. Type species: *Kupeselasia minuta* Kundrata & Bocak, 2017: 450, by original designation.

Genus *Lolosia* Kundrata & Bocak, 2017

Lolosia Kundrata & Bocak, 2017: 452. Gender: feminine. Type species: *Lolosia transversalis* Kundrata & Bocak, 2017: 454, by original designation.

Genus *Malacogaster* Bassi, 1834

Malacogaster Bassi, 1834: pl. 99. Gender: feminine. Type species: *Malacogaster passerinii* Bassi, 1834: pl. 99, by monotypy.

Genus *Microselasia* Kunderata & Bocak, 2017

Microselasia Kunderata & Bocak, 2017: 455. Gender: feminine. Type species: *Microselasia obscura* Kunderata & Bocak, 2017: 467, by original designation.

Genus *Selasia* Laporte, 1838

Selasia Laporte, 1838: 19. Gender: feminine. Type species: *Selasia rhipiceroides* Laporte, 1838: 20, by monotypy.

Genus *Wittmerselasia* Kunderata & Bocak, 2017

Wittmerselasia Kunderata & Bocak, 2017: 470. Gender: feminine. Type species: *Wittmerselasia camerooniana* Kunderata & Bocak, 2017: 473, by original designation.

Subgenus *Wittmerselasia* Kunderata & Bocak, 2017

Wittmerselasia Kunderata & Bocak, 2017: 470. Gender: feminine. Type species: *Wittmerselasia camerooniana* Kunderata & Bocak, 2017: 473, by original designation.

Subgenus *Latoselasia* Kunderata & Bocak, 2017

Latoselasia Kunderata & Bocak, 2017: 481. Gender: feminine. Type species: *Latoselasia similis* Kunderata & Bocak, 2017: 483, by original designation.

Tribe Hemirhipini Candèze, 1857

Hémirhipides Candèze, 1857: 199. Type genus: *Hemirhipus* Berthold, 1827.

Subtribe Hemirhipina Candèze, 1857

Hémirhipides Candèze, 1857: 199. Type genus: *Hemirhipus* Berthold, 1827. First Reviser (ICZN 1999, Art. 24.2) found (Hemirhipini Candèze, 1857 vs. Chalcolepidiini Candèze, 1857) is Casari-Chen (1985: 392).

Chalcolépidiides Candèze, 1857: 257. Type genus: *Chalcolepidius* Eschscholtz, 1829.

Alaites Candèze, 1874: 112. Type genus: *Alaus* Eschscholtz, 1829.

Chalcolepidina: Leng 1920: 167 [incorrect stem formation (ICZN 1999, Art. 29.3)].

Hemirrhypininae: Miwa 1927: 12 [incorrect stem formation (ICZN 1999, Art. 29.3)].
Alauinae Laurent, 1974: 16. Type genus: *Alaus* Eschscholtz, 1829 [proposed as new without reference to *Alaites* Candèze, 1874; incorrect original stem formation, not in prevailing usage].

Genus *Alaolacon* Candèze, 1865

Alaolacon Candèze, 1865: 13. Gender: masculine. Type species: *Alaolacon cyanipennis* Candèze, 1865: 13, by monotypy.

Eumoeus Candèze, 1874: 113. Gender: masculine. Type species: *Eumoeus murrayi* Candèze, 1874: 113, by original designation. Synonymised with *Alaolacon* Candèze, 1865 by Arimoto & Arimoto (2017: 88).

Luzonicus Fleutiaux, 1916a: 232. Gender: masculine. Type species: *Luzonicus bakeri* Fleutiaux, 1916a: 232, by monotypy. Synonymised with *Eumoeus* Candèze, 1874 by Fleutiaux (1947a: 306).

Tharopsides Fleutiaux, 1918a: 235. Gender: masculine. Type species: *Tharopsides harmandi* Fleutiaux, 1918a: 235, by subsequent designation (Hyslop 1921: 671). Synonymised with *Eumoeus* by Fleutiaux (1928b: 178).

Eumaeus: Fleutiaux 1941b: 40 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Alaomorphus* Hauser, 1900

Alaomorphus Hauser, 1900: 141. Gender: masculine. Type species: *Alaomorphus candezei* Hauser, 1900: 143, by monotypy.

Genus *Alaus* Eschscholtz, 1829

Alaus Eschscholtz, 1829: 33. Gender: masculine. Type species: *Elater oculatus* Linnaeus, 1758: 404, by subsequent designation (Duponchel 1840: 242).

Lamprias Gistel, 1834: 11. Gender: masculine. Type species: *Elater oculatus* Linnaeus, 1758: 404, by monotypy. Preoccupied by *Lamprias* Bonelli, 1810: Tabula Synoptica [Coleoptera: Carabidae]. Junior objective synonym of *Alaus* Eschscholtz, 1829. Unnecessarily synonymised with *Alaus* Eschscholtz, 1829 by Bousquet & Bouchard (2017: 124).

Alans: Desmarest 1860: 25 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Olaiis: Fairmaire 1878: 279 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Aliteus* Candèze, 1857

Aliteus Candèze, 1857: 197. Gender: masculine. Type species: *Alaus reichei* Candèze, 1857: 197, by subsequent designation (Hyslop 1921: 625).

Genus *Aphileus* Candèze, 1857

Aphileus Candèze, 1857: 184. Gender: masculine. Type species: *Aphileus lucanoides* Candèze, 1857: 184, by subsequent designation (Hyslop 1921: 628).

Dorcostoma Newman, 1857: 52. Gender: neuter. Type species: *Elater jansonii* Newman, 1857: 52, by monotypy. Synonymised with *Aphileus* Candèze, 1857 by Harold (1869: 1496).

Ophileus: Desmarest 1860: pl. 16 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Austrocalais* Neboiss, 1967

Austrocalais Neboiss, 1967: 261. Gender: masculine. Type species: *Austrocalais pogonodes* Neboiss, 1967: 261, by original designation.

Genus *Calais* Laporte, 1838

Calais Laporte, 1838: 9. Gender: masculine. Type species: *Calais senegalensis* Laporte, 1838: 9 (syn. of *Elater excavatus* Fabricius, 1801: 230), by subsequent designation (Hyslop 1921: 632). The names *Calais* Rafinesque (1815: 99) [Crustacea] and *Calais* Boisduval (1836: 584) [Lepidoptera; see Hemming (1967)] are unavailable.

Genus *Catelanus* Fleutiaux, 1942

Catelanus Fleutiaux, 1942: 112. Gender: masculine. Type species: *Hemirhipus trilineatus* Laporte, 1838: 12, by monotypy.

Catelaus: Schimmel and Tarnawski 2012: 16 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Chalcolepidinus* Pjatakowa, 1941

Chalcolepidinus Pjatakowa, 1941: 104. Gender: masculine. Type species: *Chalcolepidinus albopilosus* Pjatakowa, 1941: 105, by original designation.

Genus *Chalcolepidius* Eschscholtz, 1829

Chalcolepidius Eschscholtz, 1829: 32. Gender: masculine. Type species: *Elater sulcatus* Fabricius, 1777: 234, by subsequent designation (Duponchel 1843a: 371).

Charmionus Gistel, 1834: 11. Gender: masculine. Type species: *Elater porcatius* Linnaeus, 1767: 652, by subsequent designation (Bousquet and Bouchard 2017: 124). Synonymised with *Chalcolepidius* Eschscholtz, 1829 by Bousquet and Bouchard (2017: 124).

Hypomochlius Gistel, 1848b: 128. Gender: masculine. Unnecessary replacement name for *Chalcolepidius* Eschscholtz, 1829.

Chalcolepidus: Woodworth 1913: 197 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Chalcolepis* Candèze, 1857

Chalcolepis Candèze, 1857: 244. Gender: feminine. Type species: *Chalcolepis luzotii* Candèze, 1857: 245, by monotypy.

Chalcopedis: Desmarest 1860: 25 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Chacolepis: Vats and Kashyap 1992: 193 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Conobajulus* Van Zwaluwenburg, 1940

Conobajulus Van Zwaluwenburg, 1940: 95. Gender: masculine. Type species: *Conobajulus ugiensis* Van Zwaluwenburg, 1940: 96, by original designation.

Genus *Coryleus* Fleutiaux, 1942

Coryleus Fleutiaux, 1942: 94. Gender: masculine. Type species: *Coryleus desruisseauxi* Fleutiaux, 1942: 94, by monotypy.

Genus *Cryptalaus* Ôhira, 1967

Cryptalaus Ôhira, 1967b: 97. Gender: masculine. Type species: *Alaus putridus* Candèze, 1857: 233, by original designation.

Paracalais Neboiss, 1967: 261. Gender: masculine. Type species: *Alaus suboculatus* Candèze, 1857: 229, by original designation. Synonymised with *Cryptalaus* Ôhira, 1967 by Ôhira (1990: 21).

Clyptalaus: Ôhira 1990: 20 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Cryotalaus: Ôhira 1993: 33 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Crytalaus: Jiang 1993: 26 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Paracalis: Casari and Costa 1998: 703 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Euphemus* Laporte, 1838

Euphemus Laporte, 1838: 7. Gender: masculine. Type species: *Elater fasciatus* Drury, 1782: pl. XLVIII (syn. of *Elater quadrimaculatus* Olivier, 1790: 20), by monotypy. The name *Euphemus* Rafinesque, 1815: 144 [Mollusca; see Bieler and Petit 2011] is unavailable.

Eleuphemus Hyslop, 1921: 644. Gender: masculine. Unnecessary replacement name for *Euphemus* Laporte, 1838.

Genus *Fusimorphus* Fleutiaux, 1942

Fusimorphus Fleutiaux, 1942: 116. Gender: masculine. Type species: *Hemirhipus submetallicus* Fleutiaux, 1924: 184, by monotypy.

Genus *Hemirhipus* Berthold, 1827

Hemirhipus Berthold, 1827: 336. Gender: masculine. Type species: *Elater lineatus* Olivier, 1790: 10, by monotypy.

Hemirrhypus: Laporte 1838: 12 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Hemirhipes: Desmarest 1860: pl. 14 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Hemirhipis: Horn 1886: 137 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Hemirrhypus: Guérin 1953: 156 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Lycoreus* Candèze, 1857

Iphis Laporte, 1838: 7. Gender: feminine. Type species: *Iphis glauca* Laporte, 1838: 8, by subsequent designation (Chevrolat 1845: 106). Preoccupied by *Iphis* Leach, 1817: 25 [Crustacea: Malacostraca: Decapoda].

Lucarius Gistel, 1848b: ix. Gender: masculine. Replacement name for *Iphis* Laporte, 1838. Gistel (1848b: xi) also proposed *Lucarius* as a replacement name for *Ocyopus* Leach, 1819 (Staphylinidae) in the same work. We act as First Revisers (ICZN 1999, Art. 24.2) and give precedence to *Lucarius* Gistel, 1848a: xi in Staphylinidae and therefore *Lucarius* Gistel, 1848b: ix in Elateridae is treated as a junior homonym.

Lycoreus Candèze, 1857: 206. Gender: masculine. Replacement name for *Iphis* Laporte, 1838. This genus has been treated as valid with *Lycoreus regalis* Candèze, 1857: 209 as its type species by subsequent designation by Hyslop (1921: 654). Candèze (1857: 200, 207) however clearly stated that *Lycoreus* was proposed as a replacement name for the preoccupied name *Iphis* Laporte, 1838 and therefore *Lycoreus* has the same type species.

Abiphis Fleutiaux, 1926: 92. Gender: feminine. Replacement name for *Iphis* Laporte, 1838. This genus has been treated as valid with *Elater nobilis* Illiger, 1800: 116 as its type species by original designation. Fleutiaux (1926: 92), however, clearly stated that *Abiphis* was proposed as a replacement name for the preoccupied name *Iphis* Laporte, 1838 and therefore *Abiphis* has the same type species.

Lacais Fleutiaux, 1942: 109. Gender: feminine. Type species: *Iphis glauca* Laporte, 1838: 8, by monotypy. Junior objective synonym of *Iphis* Laporte, 1838 and of the replacement names proposed for *Iphis*.

Genus *Mocquersia* Fleutiaux, 1899

Mocquersia Fleutiaux, 1899: 369. Gender: feminine. Type species: *Mocquersia bicolor* Fleutiaux, 1899: 369, by subsequent designation (Hyslop 1921: 657).

Moquerisia: Dolin 2000: 19 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Neoabiphis* Kundrata & Bouchard, gen. n.

Type species: *Elater nobilis* Illiger, 1800: 116, **herein designated**. Gender: feminine. Genus *Abiphis* Fleutiaux, 1926 has been treated as valid with *Elater nobilis* Illiger, 1800 as its type species by original designation. However, Fleutiaux (1926: 92) clearly stated that *Abiphis* was proposed as a replacement name for the preoccupied name *Iphis* Laporte, 1838 and therefore *Abiphis* has the same type species. Because the name *Abiphis* is a synonym of genus *Lycoreus* Candèze, 1857 (= replacement name for *Iphis* Laporte, 1838), we establish here a new genus based on *Elater nobilis* Illiger, 1800, which was used as type species for *Abiphis*. See Casari (2008: 165–166, couplet 12 of her key) for diagnostic character states (ICZN 1999, Art. 13.1.2). All species hitherto classified under *Abiphis* Fleutiaux, 1926 (see Casari-Chen 1994: 191) are here transferred to *Neoabiphis* Kundrata & Bouchard, gen. n., and the following new combinations are proposed: *N. candezei* (Alluaud, 1896), comb. n., *N.*

fairmairei (Fleutiaux, 1903), comb. n., *N. goudoti* (Fleutiaux, 1942), comb. n., *N. insignis* (Klug, 1833), comb. n., *N. nobilis* (Illiger, 1800), comb. n., and *N. viettei* (Girard, 1966), comb. n.

Genus *Neocalais* Girard, 1971

Neocalais Girard, 1971: 587. Gender: masculine. Type species: *Alaus macer* Candèze, 1878a: lv, by original designation.

Genus *Neolycoreus* Kundrata & Bouchard, gen. n.

Type species: *Lycoreus regalis* Candèze, 1857: 209, **herein designated**. Gender: masculine. Genus *Lycoreus* Candèze, 1857 has been treated as valid with *Lycoreus regalis* Candèze, 1857 as its type species by subsequent designation. However, Candèze (1857: 200, 207) clearly stated that *Lycoreus* was proposed as a replacement name for the preoccupied name *Iphis* Laporte, 1838 and therefore *Lycoreus* has the same type species. Because the name *Lycoreus* is now treated as a valid replacement name for *Iphis* Laporte, 1838, we establish here a new genus based on *Lycoreus regalis* Candèze, 1857, which was used as type species for *Lycoreus*. See Casari (2008: 166, couplet 15 of her key) for diagnostic character states (ICZN 1999, Art. 13.1.2). Subsequent designation of type species for *Lycoreus* (i.e., *Iphis triocellata* Laporte, 1838) by Fleutiaux (1942: 95) was invalid. All species hitherto classified under *Lycoreus* Candèze, 1857 (see Casari-Chen 1994: 185) are here transferred to *Neolycoreus* Kundrata & Bouchard, gen. n., and the following new combinations are proposed: *N. alluaudi* (Candèze, 1900), comb. n., *N. corpulentus* (Candèze, 1899), comb. n., *N. cyclops* (Candèze, 1865), comb. n., *N. decorsei* (Fleutiaux, 1903), comb. n., *N. dux* (Candèze, 1857), comb. n., *N. goudotii* (Laporte, 1838), comb. n., *N. madagascariensis* (Gory, 1832), comb. n., *N. oculipennis* (Fairmaire, 1903), comb. n., *N. orbiculatus* (Schwarz, 1901), comb. n., *N. regalis* (Candèze, 1857), comb. n., *N. sicardi* (Fleutiaux, 1942), comb. n., *N. triangularis* (Fleutiaux, 1942), comb. n., *N. triocellatus* (Laporte, 1838), comb. n., and *N. vicinus* (Fleutiaux, 1942), comb. n.

Genus *Nycterilampus* Montrouzier, 1860

Nycterilampus Montrouzier, 1860: 258. Gender: masculine. Type species: *Nycterilampus lifuanus* Montrouzier, 1860: 258, by monotypy.

Nycterolampus: Fleutiaux 1891: 391 [unavailable name, incorrect subsequent spelling not in prevailing usage]. We follow Costa et al. (2009: 48) in treating this name as an incorrect subsequent spelling of *Nycterilampus* Montrouzier, 1860.

Genus *Pherhimius* Fleutiaux, 1942

Pherhimius Fleutiaux, 1942: 114. Gender: masculine. Type species: *Elater fascicularis* Fabricius, 1787: 171, by original designation.

Genus *Phertetrigus* Schimmel & Tarnawski, 2012

Phertetrigus Schimmel & Tarnawski, 2012: 223. Gender: masculine. Type species: *Tetrigus parryi* Candèze, 1865: 18, by original designation.

Genus *Phibisa* Fleutiaux, 1942

Phibisa Fleutiaux, 1942: 105. Gender: feminine. Type species: *Ctenicera pupieri* Fleutiaux, 1903: 228, by original designation.

Genus *Propalaus* Casari, 2008

Propalaus Casari, 2008: 164. Gender: masculine. Type species: *Chalcolepidius haroldi* Candèze, 1878a: lv, by original designation.

Genus *Pseudocalais* Girard, 1971

Pseudocalais Girard, 1971: 588. Gender: masculine. Type species: *Alaus longipennis* Schwarz, 1900: 145, by original designation.

Genus *Punctodensus* Patwardhan, Schimmel & Athalye, 2009

Punctodensus Patwardhan, Schimmel & Athalye, 2009: 54. Gender: masculine. Type species: *Punctodensus indicus* Patwardhan, Schimmel & Athalye, 2009: 55, by original designation.

Genus *Saltamartinus* Casari, 1996

Saltamartinus Casari, 1996: 386. Gender: masculine. Type species: *Hemirhipus decorus* Candèze 1857: 254, by original designation.

Genus *Thoramus* Sharp, 1877

Thoramus Sharp, 1877: 399. Gender: masculine. Type species: *Thoramus wakefieldi* Sharp, 1877: 399, by subsequent designation (Hyslop 1921: 672).

Subtribe *Ludioctenina* Jakobson, 1913

Ludioctenina Jakobson, 1913: 755. Type genus: *Ludioctenus* Fairmaire, 1893.

Tetrigusina Schimmel & Tarnawski, 2012: 116. Type genus: *Tetrigus* Candèze, 1857.

The correct stem based on genus *Tetrigus* is Tetrig-, however Schimmel and Tarnawski (2012) used the whole genus name as stem (as required by ICZN 1999, Art. 29.6) in order to avoid homonymy with Tetrigidae Rambur, 1838: 64, previously established in the order Orthoptera.

Genus *Collisarius* Schimmel & Tarnawski, 2012

Collisarius Schimmel & Tarnawski, 2012: 118. Gender: masculine. Type species: *Tetrigus bakeri* Fleutiaux, 1941a: 18, by original designation.

Genus *Cuneateus* Schimmel & Tarnawski, 2012

Cuneateus Schimmel & Tarnawski, 2012: 118. Gender: masculine. Type species: *Cuneateus jingkei* Schimmel & Tarnawski, 2012: 144, by original designation.

Genus *Ludioctenus* Fairmaire, 1893

Ludioctenus Fairmaire, 1893: lxxviii. Gender: masculine. Type species: *Ludioctenus akbesianus* Fairmaire, 1893: lxxix (syn. of *Tetrigus cyprius* Baudi di Selve, 1871: 50), by monotypy. Previously considered as a synonym of *Tetrigus* Candèze, 1857 but removed from synonymy by Schimmel & Tarnawski (2012: 117).

Elatrigus Reitter, 1905: 10. Gender: masculine. Type species: *Tetrigus cyprius* Baudi di Selve, 1871: 50, by monotypy. Synonymised with *Ludioctenus* Fairmaire, 1893 by Winkler & Buysson in Winkler (1925: 580).

Genus *Platianellus* Schimmel & Tarnawski, 2012

Platianellus Schimmel & Tarnawski, 2012: 116. Gender: masculine. Type species: *Platianellus casariae* Schimmel & Tarnawski, 2012: 165, by original designation.

Genus *Tetrigus* Candèze, 1857

Tetrigus Candèze, 1857: 254. Gender: masculine. Type species: *Tetrigus parallelus* Candèze, 1857: 255, by subsequent designation (Hyslop 1921: 671).

Tribe Oophorini Gistel, 1848

Oophoridae Gistel, 1848a: [5]. Type genus: *Oophorus* Dejean, 1833 (syn. of *Aeolus* Eschscholtz, 1829).

Monocrépidiites Candèze, 1859: 176. Type genus: *Monocrepidius* Eschscholtz, 1829 (syn. of *Conoderus* Eschscholtz, 1829).

Drasteriini Houlbert, 1912: 184. Type genus: *Drasterius* Eschscholtz, 1829. Not Drasteriini Wiltshire, 1976: 160 (Lepidoptera); see Bouchard et al. (2011).

Aeolina: Jakobson 1913: 747. Type genus: *Aeolus* Eschscholtz, 1829. Unavailable family-group name; see Bouchard et al. (2011).

Conoderinae Fleutiaux, 1919: 58. Type genus: *Conoderus* Eschscholtz, 1829. Not Conoderinae Schönherr, 1833: 26 (Coleoptera: Curculionidae); see Bouchard et al. (2011).

Pachyderinae Fleutiaux, 1919: 57. Type genus: *Pachyderes* Guérin-Méneville, 1829.

Monocrepidina: Leng 1920: 167 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Canoderinae: Miwa 1927: 12 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Monocrepidinae: Mouchet 1950: 186 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Aeoloderma* Fleutiaux, 1928

Aeoloderma Fleutiaux, 1928a: 135. Gender: neuter. Type species: *Elater crucifer* Rossi, 1790: 183, by original designation.

Aeloderma: Fleutiaux 1928a: 135 [unavailable name, incorrect original spelling not in prevailing usage (ICZN 1999, Art. 19.3)]; First Reviser (Art. 24.2): Fleutiaux (1930: 273).

Aeleoderma: Fleutiaux 1932a: 15 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Aeolocerma: Miwa 1934: 243 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Atoloderma: Fleutiaux 1934a: 182 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Aoloderma: Platia and Marini 1990: 32 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Aeoloides* Schwarz, 1906

Aeoloides Schwarz, 1906a: 109. Gender: masculine. Type species: *Heteroderes sequester* Candèze, 1859: 378, by subsequent designation (Hyslop 1921: 624).

Genus *Aeolosomus* Dolin, 1982

Aeolosomus Dolin, 1982: 106. Gender: masculine. Type species: *Cryptohypnus rossii* Germar, 1844: 148, original designation.

Aeolosomus: Platia and Marini 1990: 33 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Aeolus* Eschscholtz, 1829

Aeolus Eschscholtz, 1829: 33. Gender: masculine. Type species: *Elater scriptus* Fabricius, 1801: 244, by subsequent designation (Lacordaire 1857: 187).

Oophorus Dejean, 1833: 93. Gender: masculine. Type species: *Elater elegans* Fabricius, 1792: 230, by subsequent designation (Hyslop 1921: 659). Synonymised with *Aeolus* Eschscholtz, 1829 by Cate et al. (2007: 104).

Trypheus Gistel, 1834: 12. Gender: masculine. Type species: *Elater elegans* Fabricius, 1792: 230, by monotypy. Junior objective synonym of *Oophorus* Dejean, 1833 (also see Bousquet and Bouchard 2017: 125).

Aelus: Chagnon 1935: 133 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Aiolus: Wilson 1941: 26 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Aeolous: Dolin 1978: 4 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Apochresis* Candèze, 1882

Apochresis Candèze, 1882: 46. Gender: feminine. Type species: *Apochresis aspera* Candèze, 1882: 46, by monotypy [the spelling *asper* is an incorrect original spelling].

Genus *Babadrasterius* Ôhira, 1994

Babadrasterius Ôhira, 1994: 224. Gender: masculine. Type species: *Babadrasterius urabensis* Ôhira, 1994: 224, by original designation.

Genus *Deronocus* Johnson, 1997

Deroconus Johnson, 1995: 60. Gender: masculine. Type species: *Ctenicera sleeperi* Becker, 1973: 1529, by original designation. Preoccupied by *Deroconus* Jekel, 1854: 9bis [Coleoptera: Curculionidae].

Deronocus Johnson, 1997: 284. Gender: masculine. Replacement name for *Deroconus* Johnson, 1995.

Genus *Drasterius* Eschscholtz, 1829

Drasterius Eschscholtz, 1829: 33. Gender: masculine. Type species: *Elater bimaculatus* Rossi, 1790: 182, by subsequent designation (Curtis 1838: 694), see Sánchez-Ruiz (1996: 48).

Dresterius: Brullé 1832: 141 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Epistrophus Gistel, 1834: 12. Gender: masculine. Type species: *Elater bimaculatus* Rossi, 1790: 182, by monotypy. Junior objective synonym of *Drasterius* Eschscholtz, 1829 (also see Bousquet and Bouchard 2017: 126).

Prodrasterius Fleutiaux, 1927b: 91. Gender: masculine. Type species: *Drasterius brahminus* Candèze, 1859: 426, by monotypy. Synonymised with *Drasterius* Eschscholtz, 1829 by Platia & Schimmel (1997: 300).

Draesterius: Leseigneur 1955: 86 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Prodratsreius: Schimmel and Tarnawski 2012: 12 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Gahanus* Platia, 2012

Gahanus Platia, 2012: 132. Gender: masculine. Type species: *Gahanus socotranus* Platia, 2012: 133, by original designation.

Genus *Grammephorus* Solier, 1851

Grammephorus Solier, 1851: 20. Gender: masculine. Type species: *Grammephorus rufipennis* Solier, 1851: 21, by monotypy.

Grammophorus: Candèze 1859: 417 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Hartenius* Platia, 2007

Hartenius Platia, 2007: 200. Gender: masculine. Type species: *Hartenius narci* Platia, 2007: 200, by original designation.

Genus *Heteroderes* Latreille, 1834

Heteroderes Latreille, 1834: 155. Gender: masculine. Type species: *Heteroderes fuscus* Latreille, 1834: 155, by monotypy.

Exaeolus Gozis, 1886: 22. Gender: masculine. Type species: *Oophorus algerinus* Lucas, 1847: 166, by original designation. Synonymised with *Heteroderes* Latreille, 1834 by Schenkling (1925: 126). Górriz (1902: 180) and Schwarz (1906a: 106) had treated the type species of *Exaeolus* Gozis, 1886 as belonging under *Heteroderes* Latreille, 1834 without formally proposing the synonymy of *Exaeolus* with *Heteroderes*.

Heterodes: Sánchez-Ruiz & Sáez-Bolaño, 1994: 121 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Melanthoides* Candèze, 1865

Melanthoides Candèze, 1865: 23. Gender: masculine. Type species: *Melanthoides latimanus* Candèze, 1865: 24, by monotypy.

Malanthoides: Dolin 1975: 1626 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Monocrepidius* Eschscholtz, 1829

Conoderus Eschscholtz, 1829: 31. Gender: masculine. Type species: *Conoderus fuscofasciatus* Eschscholtz, 1829: 31, by subsequent designation (Duponchel 1843b: 188).

Monocrepidius Eschscholtz, 1829: 31. Gender: masculine. Type species: *Monocrepidius pallipes* Eschscholtz, 1829: 32, by subsequent designation (Hyslop 1921: 657). First Reviser (Art. 24.2) found (*Monocrepidius* Eschscholtz, 1829 vs. *Conoderus* Eschscholtz, 1829) is Germar (1839: 223); see Sánchez-Ruiz (1996: 184).

Monocepidius: Henshaw 1885: 67 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Silene Broun, 1893: 1135. Gender: feminine. Type species: *Silene brunnea* Broun, 1893: 1136, by monotypy. Synonymised with *Conoderus* Eschscholtz, 1829 by Calder (1996: 79).

Monocrepidius: Schaeffer 1909: 436 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Monocrepidus: Wolcott 1923: 86 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Conoderes: Van Dyke, 1932: 294 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Nanseia* Kishii, 1985

Nanseia Kishii, 1985: 5. Gender: feminine. Type species: *Prodrasterius erabuensis* Kishii, 1966: 8, by monotypy.

Genus *Neodrasterius* Kishii, 1996

Neodrasterius Kishii, 1996: 90. Gender: masculine. Type species: *Neodrasterius kiyoyamai* Kishii, 1996: 91, by original designation.

Genus *Nipponodrasterius* Kishii, 1966

Nipponodrasterius Kishii, 1966: 9. Gender: masculine. Type species: *Nipponodrasterius alpicola* Kishii, 1966: 9, by original designation.

Genus *Pachyderes* Guérin-Méneville, 1829

Pachyderes Guérin-Méneville, 1829: plate 12. Gender: masculine. Type species: *Pachyderes ruficollis* Guérin-Méneville, 1829: plate 12, by monotypy.

Genus *Paraheteroderes* Girard, 2017

Paraheteroderes Girard, 2017: 71. Gender: masculine. Type species: *Heteroderes kordofanus* Candèze, 1859: 364, by original designation.

Genus *Phedomenus* Candèze, 1889

Phedomenus Candèze, 1889: 89. Gender: masculine. Type species: *Phedomenus venustus* Candèze, 1889: 90, by subsequent designation (Hyslop 1921: 664).

Subgenus *Domenephus* Fleutiaux, 1932

Domenephus Fleutiaux, 1932c: 277. Gender: masculine. Type species: *Diploconus flavangulus* Candèze, 1895: 59, by original designation.

Subgenus *Phedomenus* Candèze, 1889

Phedomenus Candèze, 1889: 89. Gender: masculine. Type species: *Phedomenus venustus* Candèze, 1889: 90, by subsequent designation (Hyslop 1921: 664).

Genus *Pseudaolus* Candèze, 1891

Pseudaolus Candèze, 1891: 77. Gender: masculine. Type species: *Aeolus australis* Candèze, 1859: 284, by subsequent designation (Hyslop 1921: 667).

Genus *Telesus* Candèze, 1880

Telesus Candèze, 1880: 9. Gender: masculine. Type species: *Telesus ritsemae* Candèze, 1880: 10, by monotypy.

Tribe Platycrepidini Costa & Casari-Chen, 1993

Eudactylites Candèze, 1859: 153. Type genus: *Eudactylus* Sallé, 1855. Preoccupied genus name, not *Eudactylus* Fitzinger, 1843 [Reptilia]; syn. of *Platycrepidius* Candèze, 1859. Permanently invalid, based on preoccupied type genus; see Bouchard et al. (2011).
 Platycrepidini Costa & Casari-Chen, 1993: 62. Type genus: *Platycrepidius* Candèze, 1859.

Genus *Platycrepidius* Candèze, 1859

Eudactylus Sallé, 1855: 266. Gender: masculine. Type species: *Eudactylus wapleri* Sallé, 1855: 267, by monotypy. Preoccupied by *Eudactylus* Fitzinger, 1843: 67 (Reptilia).
Platycrepidius Candèze, 1859: 159. Gender: masculine. Type species: *Eudactylus wapleri* Sallé, 1855: 267, by subsequent designation (Hyslop 1921: 665). Originally proposed as a synonym of *Eudactylus* Sallé, 1855 and subsequently treated as valid (ICZN 1999, Art. 11.6). Objective synonym of *Eudactylus* Sallé, 1855.

Platicrepidius: Motschulsky 1859: 358 [unavailable name, incorrect subsequent spelling not in prevailing usage; see Hyslop (1921: 665)].

Tyleudacus Fleutiaux, 1922: 429. Gender: masculine. Unnecessary replacement name for *Eudactylus* Sallé, 1855.

Tribe Pseudomelanactini Arnett, 1967

Pseudomelanactini Arnett, 1967: 111. Type genus: *Pseudomelanactes* Mathieu, 1961 [synonym of *Anthracalaus* Fairmaire, 1888].

Pseudomelactini: Casari 2008: 141 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Anthracalaus* Fairmaire, 1888

Anthracalaus Fairmaire, 1888: 349. Gender: masculine. Type species: *Alaus westermanni* Candèze, 1857: 216, by subsequent designation (Hyslop 1921: 628).

Anthracralaus: Fleutiaux (1927a: 101) [unavailable name, incorrect subsequent spelling not in prevailing usage].

Pseudomelanactes Mathieu, 1961: 474. Gender: masculine. Type species: *Melanactes agrypnoides* Van Dyke, 1932: 446, by original designation. Synonymised with *Anthracalaus* Fairmaire, 1888 by Calder & Hayek (1992: 17).

Genus *Lanelater* Arnett, 1952

Amaurus Laporte, 1840: 237. Gender: masculine. Type species: *Amaurus senegalensis* Laporte, 1840: 237 (syn. of *Elater notodonta* Latreille, 1827: 275), by subsequent designation (Hyslop 1921: 625). Preoccupied by *Amaurus* Burmeister, 1834: 294 [Hemiptera]. Synonymised with *Lanelater* Arnett, 1952 by Arnett (1952: 105).

Lanelater Arnett, 1952: 105. Gender: masculine. Type species: *Agrypnus schotti* LeConte, 1853: 492, by original designation.

Tribe Pyrophorini Candèze, 1863

Pyrophorites Candèze, 1863: 3. Type genus: *Pyrophorus* Billberg, 1820.

Subtribe Hapsodrilina Costa, 1975

Hapsodrilina Costa, 1975: 88. Type genus: *Hapsodrilus* Costa, 1975.

Genus *Hapsodrilus* Costa, 1975

Hapsodrilus Costa, 1975: 90. Gender: masculine. Type species: *Pyrophorus ignifer* Germar, 1841: 46, by original designation.

Genus *Ptesimopsia* Costa, 1975

Ptesimopsia Costa, 1975: 91. Gender: feminine. Type species: *Pyrophorus candezei* Fauvel, 1860: 307, by original designation.

Genus *Pyroptesis* Costa, 1975

Pyroptesis Costa, 1975: 90. Gender: feminine. Type species: *Pyrophorus cincticollis* Germar, 1841: 44, by original designation.

Genus *Sooporanga* Costa, 1975

Sooporanga Costa, 1975: 89. Gender: masculine. Type species: *Pyrophorus formosus* Germar, 1841: 41, by original designation.

Subtribe *Nyctophyxina* Costa, 1975

Nyctophyxina Costa, 1975: 85. Type genus: *Nyctophyxis* Costa, 1975 [incorrect stem formation in prevailing usage; see Bouchard et al. (2011)].

Genus *Cryptolampros* Costa, 1975

Cryptolampros Costa, 1975: 88. Gender: masculine. Type species: *Pyrophorus coecus* Germar, 1841: 40, by original designation.

Genus *Noxlumenes* Costa, 1975

Noxlumenes Costa, 1975: 87. Gender: masculine (based on the ICZN 1999, Art. 30.2.4; the specific name *bardus* is a noun in apposition; Art. 31.2.2). Type species: *Noxlumenes bardus* Costa, 1975: 87, by original designation.

Genus *Nyctophyx* Costa, 1975

Nyctophyx Costa, 1975: 86. Gender: feminine (erroneously treated as masculine in original description; the Greek noun φύξις (latinised phyxis, meaning refuge) is present in the Greek dictionaries with the feminine gender; ICZN 1999, Art. 30.1.2).

Type species: *Pyrophorus ocellatus* Germar, 1841: 49, by original designation.

Nyctophix: Costa 1975: 86 [incorrect original spelling (ICZN 1999, Art. 19.3; First Revisers (Art. 24.2): Sáiz et al. (1990: 70)].

Nyctophysis: Bouchard et al. (2011: 310) [unavailable name, incorrect subsequent spelling not in prevailing usage].

Subtribe *Pyrophorina* Candèze, 1863

Pyrophorites Candèze, 1863: 3. Type genus: *Pyrophorus* Billberg, 1820.

Genus *Deilelater* Costa, 1975

Deilelater Costa, 1975: 108. Gender: masculine. Type species: *Pyrophorus physoderus* Germar, 1841: 36, by original designation.

Genus *Fulgeochlizus* Costa, 1975

Fulgeochlizus Costa, 1975: 103. Gender: masculine. Type species: *Pyrophorus bruchi* Candèze, 1897: 66, by original designation.

Genus *Hifo* Candèze, 1882

Hifo Candèze, 1882: 94. Gender: masculine. Type species: *Hifo pacificus* Candèze, 1882: 94, by monotypy.

Genus *Hifoidea* Schwarz, 1906

Hifoidea Schwarz, 1906b: 154. Gender: masculine. Type species: *Pyrophorus semiotoidea* Schwarz, 1906b: 154, by monotypy.

Genus *Hypsiophthalmus* Latreille, 1834

Hypsiophthalmus Latreille, 1834: 145. Gender: masculine. Type species: *Pyrophorus buphthalmus* Eschscholtz, 1829: 32, by monotypy (see Costa 1975: 97).

Belania Laporte, 1840: 236. Gender: feminine. Type species: *Pyrophorus buphthalmus* Eschscholtz, 1829: 32, by monotypy. Junior objective synonym of *Hypsiophthalmus* Latreille, 1834.

Genus *Ignelater* Costa, 1975

Stilpnus Laporte, 1840: 236. Gender: masculine. Type species: *Pyrophorus havaniensis* Laporte, 1840: 236, by subsequent designation (Hyslop 1921: 671). Preoccupied by *Stilpnus* Gravenhorst, 1829: 664 [Hymenoptera].

Ignelater Costa, 1975: 105. Gender: masculine. Replacement name for *Stilpnus* Laporte, 1840.

Genus *Lygelater* Costa, 1975

Lygelater Costa, 1975: 106. Gender: masculine. Type species: *Pyrophorus fulgidus* Germar, 1841: 24, by original designation.

Genus *Metapyrophorus* Rosa & Costa, 2009

Metapyrophorus Rosa & Costa, 2009: 45. Gender: masculine. Type species: *Metapyrophorus pharolim* Rosa & Costa, 2009: 45, by monotypy.

Genus *Opselater* Costa, 1975

Opselater Costa, 1975: 103. Gender: masculine. Type species: *Elater pyrophanus* Illiger, 1807: 149, by original designation.

Genus *Phanophorus* Solier, 1851

Phanophorus Solier, 1851: 26. Gender: masculine. Type species: *Phanophorus parallelus* Solier, 1851: 27, by subsequent designation (Hyslop 1921: 663).

Phamophorus: Schwarz 1906a: 210 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Phantophorus: Schimmel and Taranwski 2012: 114 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Photophorus* Candèze, 1863

Photophorus Candèze, 1863: 72. Gender: masculine. Type species: *Photophorus jansonii* Candèze, 1863: 73, by subsequent designation (Hyslop 1921: 664).

Genus *Pyrearinus* Costa, 1975

Pyrearinus Costa, 1975: 99. Gender: masculine. Type species: *Pyrophorus nyctolampis* Germar, 1841: 54, by original designation.

Genus *Pyrophorus* Billberg, 1820

Phosphorus: Voet 1806: Tab. 43, fig. 17 [unavailable name, work not consistently binominal (ICZN 1999, Art. 11.4)]. We follow other authors (e.g., Alonso-Zarazaga and Lyal 1999: 8) in considering the names in Voet's publication not consistently binominal. The genus-group name *Phosphorus* has not been made available in Elateridae to our knowledge.

Pyrophorus Billberg, 1820: 20. Gender: masculine. Type species: *Elater noctilucus* Linnaeus, 1758: 404, by subsequent designation (Desmarest 1860: 29).

Hedonius Gistel, 1834: 11. Gender: masculine. Type species: *Elater noctilucus* Linnaeus, 1758: 404, by subsequent designation (Bousquet and Bouchard 2017: 124). Junior objective synonym of *Pyrophorus* Billberg, 1820 (also see Bousquet and Bouchard 2017: 124).

Phyrophorus: Wolcott 1936: 211 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Vesperelater* Costa, 1975

Vesperelater Costa, 1975: 109. Gender: masculine. Type species: *Pyrophorus ornamentum* Germar, 1841: 39, by original designation.

Agrypninae incertae sedis**Genus *Anathesis* Candèze, 1865**

Anathesis Candèze, 1865: 21. Gender: feminine. Type species: *Anathesis laconoides* Candèze, 1865: 21, by monotypy.

Genus *Antitypus* Candèze, 1882

Antitypus Candèze, 1882: 70. Gender: masculine. Type species: *Elater insignitus* Fairmaire & Germain, 1860: 268, by monotypy.

Genus *Chrostus* Candèze, 1878

Chrostus Candèze, 1878b: clxix. Gender: masculine. Type species: *Chrostus quadrifoveolatus* Candèze, 1878b: clxx, by monotypy.

Genus *Dorygonus* Candèze, 1859

Dorygonus Candèze, 1859: 182. Gender: masculine. Type species: *Dorygonus amaurus* Candèze, 1859: 186, by subsequent designation (Hyslop 1921: 641).

Subgenus *Dorygonus* Candèze, 1859

Dorygonus Candèze, 1859: 182. Gender: masculine. Type species: *Dorygonus amaurus* Candèze, 1859: 186, by subsequent designation (Hyslop 1921: 641).

Subgenus *Rygodonus* Fleutiaux, 1932

Rygodonus Fleutiaux, 1932d: 857. Gender: masculine. Type species: *Dorygonus alluaudi* Fleutiaux, 1932d: 863, by original designation.

Genus *Macromalocera* Hope, 1834

Macromalocera Hope, 1834: 13. Gender: feminine. Type species: *Macromalocera caenosa* Hope, 1834: 14, by subsequent designation (Hyslop 1921: 654).

Subfamily *Campyloxeninae* Costa, 1975

Campyloxeninae Costa, 1975: 114. Type genus: *Campyloxenus* Fairmaire & Germain, 1860.

Genus *Campyloxenus* Fairmaire & Germain, 1860

Campyloxenus Fairmaire & Germain, 1860: 6. Gender: masculine. Type species: *Campyloxenus pyrothorax* Fairmaire & Germain, 1860: 6, by monotypy.

***Malalcahuello* Arias-Bohart, 2015**

Malalcahuello Arias-Bohart, 2015: 2. Gender: masculine. Type species: *Malalcahuello ocaresi* Arias-Bohart, 2015: 4, by original designation.

Subfamily Hemiopinae Fleutiaux, 1941

Hemiopinae Fleutiaux, 1941b: 31. Type genus: *Hemiops* Laporte, 1838.

Hemiopsinae: Fleutiaux 1947a: 239 [unavailable name, incorrect stem formation (ICZN 1999, Art. 29.3)].

Genus *Exoeolus* Broun, 1893

Exoeolus Broun, 1893: 1133. Gender: masculine. Type species: *Exoeolus rufescens* Broun, 1893: 1134, by subsequent designation (Hyslop 1921: 646; as *Exaeolus*).

Exaeolus: Schwarz 1906a: 161 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Brounaeolus Hyslop, 1921: 631. Gender: masculine. Unnecessary replacement name for *Exoeolus* Broun, 1893 (misspelled as *Exaeolus* which is preoccupied by *Exaeolus* Gozis, 1886: 22).

Genus *Hemiops* Laporte, 1838

Oxysternus Latreille, 1834: 164. Gender: masculine. Type species: *Elater crassus* Gyllenhal, 1817: 135, by monotypy. Preoccupied by *Oxysternus* Dejean, 1833: 129 [Coleoptera: Histeridae]. Synonymised with *Hemiops* Laporte, 1838 by Candèze (1863: 492).

Hemiops Laporte, 1838: 15. Gender: masculine. Type species: *Hemiops flavus* Laporte, 1838: 15, by subsequent designation (Hyslop 1921: 648).

Plectrosternus Lacordaire, 1857: 227. Gender: masculine. Replacement name for *Oxysternus* Latreille, 1834.

Oxisternus: Candèze 1863: 492 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Plectrostenus: Marschall 1873: 233 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Plectosternus: Schwarz 1907: 304 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Legna* Walker, 1858

Legna Walker, 1858: 281. Gender: feminine (ICZN 1999, Art. 30.2.1). Type species: *Legna idonea* Walker, 1858: 281 (= *Plectrosternus rufus* Lacordaire, 1857), by monotypy. Schenkling (1927: 503) used *Plectrosternus* Lacordaire, 1857 as valid with *Legna* Walker, 1858 as a synonym. However *Plectrosternus* Lacordaire, 1857 is a replacement name for *Oxysternus* Latreille, 1834 and therefore it has the same type species as *Oxysternus* (= synonym of the valid name *Hemiops* Laporte, 1838). When *Plectrosternus* Lacordaire, 1857 was moved under *Hemiops* for nomenclatural reasons then this left the genus which previously included the species of *Plectrosternus* sensu Schenkling (1927) (with *Legna idonea* Walker, 1858 as a synonym of *P. rufus* Lacordaire, 1857) without a valid name. The only available name for that genus is *Legna* Walker, 1858. Therefore, all species hitherto classified under *Plectrosternus*, i.e., *P. rufus* Lacordaire, 1857, *P. convexus* Vats, 1991, *P. coolsi* Schimmel, 1996 and *P. foveatus* Patwardhan & Athalye, 2012, are here transferred to *Legna* Walker, 1858, and new combinations *Legna rufa* (Lacordaire, 1857), comb. n., *L. convexa* (Vats, 1991), comb. n., *L. coolsi* (Schimmel, 1996), comb. n., and *L. foveata* (Patwardhan & Athalye, 2012), comb. n. are proposed.

Genus *Parhemiops* Candèze, 1878

Parhemiops Candèze, 1878c: cxviii. Gender: masculine. Type species: *Parhemiops palliatus* Candèze, 1878c: cxviii, by monotypy.

Lincydrus Fleutiaux, 1932b: 148. Gender: masculine. Type species: *Lincydrus cylindricus* Fleutiaux, 1932b: 149, by monotypy. Synonymised with *Parhemiops* Candèze, 1878 by Van Zwaluwenburg (1959: 411).

Subfamily Lissominae Laporte, 1835

Lissomidae Laporte, 1835: 178. Type genus: *Lissomus* Dalman, 1824.

Tribe Lissomini Laporte, 1835

Lissomidae Laporte, 1835: 178. Type genus: *Lissomus* Dalman, 1824.

Drapetini LeConte, 1863: 44. Type genus: *Drapetes* Dejean, 1821.

Drapetini Dolin, 1975: 1627. Type genus: *Drapetes* Dejean, 1821. Proposed as new without reference to Drapetini LeConte, 1863.

Drapetetini: Lohse 1979: 200 [incorrect stem formation (ICZN 1999, Art. 29.3)].

Genus *Drapetes* Dejean, 1821

Drapetes Dejean, 1821: 34. Gender: masculine. Type species: *Elater equestris* Fabricius, 1801: 244 (syn. of *Elater mordelloides* Host, 1790), by monotypy.

Subgenus *Drapetes* Dejean, 1821

Drapetes Dejean, 1821: 34. Gender: masculine. Type species: *Elater equestris* Fabricius, 1801: 244 (syn. of *Elater mordelloides* Host, 1790: 298), by monotypy.

Lissodes Berthold, 1827: 335. Gender: masculine. Type species: *Elater equestris* Fabricius, 1801: 244 (syn. of *Elater mordelloides* Host, 1790: 298), by subsequent designation (Smetana 2007: 46). Junior objective synonym of *Drapetes* Dejean, 1821.

Paeon Gistel, 1848b: ix. Gender: masculine. Unnecessary replacement name for *Drapetes* Dejean, 1821.

Drapetes: Wolcott 1936: 214 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Subgenus *Neodrapetes* Cobos, 1967

Neodrapetes Cobos, 1967: 311. Gender: masculine. Type species: *Drapetes sellatus* Bonvouloir, 1859: 59, by original designation.

Genus *Hypochaetes* Bonvouloir, 1859

Hypochaetes Bonvouloir, 1859: 137. Gender: masculine. Type species: *Hypochaetes sericeus* Bonvouloir, 1859: 139, by monotypy.

Genus *Lissomus* Dalman, 1824

Lissomus Dalman, 1824: 13. Gender: masculine. Type species: *Lissomus punctulatus* Dalman, 1824: 14, by subsequent designation (Fleutiaux 1947b: 138).

Cymbium: Gerstaecker (1860: 136) [unavailable name, first proposed as a synonym and not made available subsequently (ICZN 1999, Art. 11.6)]

Genus *Osslimus* Calder, 1996

Osslimus Calder, 1996: 38. Gender: masculine. Type species: *Lissomus freyi* Cobos, 1967: 323, by original designation.

Genus *Paradrapetes* Fleutiaux, 1895

Paradrapetes Fleutiaux, 1895: cccxci. Gender: masculine. Type species: *Paradrapetes villosus* Fleutiaux, 1895: cccxci, **here designated**.

Tribe Protelaterini Schwarz, 1902c

Protelateridae Schwarz, 1902c: 365. Type genus: *Protelater* Sharp, 1877.
Sphaenelaterini Stibick, 1979: 179. Type genus: *Sphaenelater* Schwarz, 1902.

Genus *Anaspasis* Candèze, 1882

Anaspasis Candèze, 1882: 4. Gender: feminine. Type species: *Anaspasis fasciolata* Candèze, 1882: 5, by monotypy.

Genus *Austrelater* Calder & Lawrence, 1993

Austrelater Calder & Lawrence in Calder, Lawrence & Trueman, 1993: 1351. Gender: masculine. Type species: *Austrelater macphersonensis* Calder in Calder, Lawrence & Trueman, 1993: 1354, by original designation.

Genus *Protelater* Sharp, 1877

Protelater Sharp, 1877: 482. Gender: masculine. Type species: *Protelater elongatus* Sharp, 1877: 482, by subsequent designation (Hyslop 1921: 667).

Genus *Sphaenelater* Schwarz, 1902

Geranus Sharp, 1877: 480. Gender: masculine. Type species: *Geranus crassus* Sharp, 1877: 480, by subsequent designation (Hyslop 1921: 646). Preoccupied by *Geranus* Bonaparte, 1854: 661 [Aves].

Sphaenelater Schwarz, 1902c: 365. Gender: masculine. Type species: *Sphaenelater nigricornis* Schwarz, 1902c: 365, by monotypy. Synonymised with *Geranus* Sharp, 1877 by Schwarz (1907: 286).

Geraniella Gourlay, 1950: 192. Gender: feminine. Unnecessary replacement name for *Geranus* Sharp, 1877.

Genus *Tunon* Arias-Bohart, 2013

Tunon Arias-Bohart, 2013: 161. Gender: masculine. Type species: *Tunon guinezi* Arias-Bohart, 2013: 164, by original designation.

Genus *Valdivelater* Lawrence & Arias, 2009

Valdivelater Lawrence & Arias, 2009: 320. Gender: masculine. Type species: *Valdivelater krahmeri* Lawrence & Arias, 2009: 322, by original designation.

Subfamily Oestodinae Hyslop, 1917

Oestodinae Hyslop, 1917: 251. Type genus: *Oestodes* LeConte, 1853.

Oestoidinae: Gurjeva 1974b: 68 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Oestodes* LeConte, 1853

Oestodes LeConte, 1853: 424. Gender: masculine. Type species: *Elater tenuicollis* Randall, 1838: 14, by subsequent designation (Hyslop 1921: 659).

Oestodus: Smith 1900: 251 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Cestodes: Brimley 1938: 167 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Bladus* LeConte, 1861

Bladus LeConte, 1861: 171. Gender: masculine. Type species: *Eucnemis quadricollis* Say, 1839: 186, by subsequent monotypy in LeConte (1863: 48).

Subfamily Parablacinae Kunderata, Gunter, Douglas & Bocak, 2016

Parablacinae Kunderata, Gunter, Douglas & Bocak, 2016: 299. Type genus: *Parablax* Schwarz, 1906.

Genus *Metablax* Candèze, 1869

Blax Candèze, 1863: 200. Gender: masculine (ICZN 1999, Art. 30.1.4.2). Type species: *Elater acutipennis* White, 1846: 7, by subsequent designation (Hyslop 1921: 631). Preoccupied by *Blax* Koch, 1840: 359 [Collembola] and *Blax* J Thomson, 1860: 22 [Coleoptera: Cerambycidae].

Metablax Candèze, 1869: 122. Gender: masculine. Replacement name for *Blax* Candèze, 1863.

Genus *Ophidius* Candèze, 1863

Ophidius Candèze, 1863: 203. Gender: masculine. Type species: *Ophidius elegans* Candèze, 1863: 204, by subsequent designation (Hyslop 1921: 659).

Genus *Parablax* Schwarz, 1906

Parablax Schwarz, 1906c: 368. Gender: masculine. Type species: *Metablax trisulcatus* Schwarz, 1903: 394 (syn. of *Parasaphes quinquesulcatus* Blackburn, 1900: 114), by subsequent designation (Hyslop 1921: 661).

Genus *Parasaphes* Candèze, 1882

Parasaphes Candèze, 1882: 101. Gender masculine (ICZN 1999, Art. 30.1.4.2). Type species: *Parasaphes elegans* Candèze, 1882: 101, by monotypy.

Genus *Sharon* Arias-Bohart & Elgueta, 2015

Sharon Arias-Bohart & Elgueta, 2015: 2. Gender: feminine (erroneously treated as masculine in original description; the correct name of the type species is *Sharon amoena*). Type species: *Asaphes amoenus* Philippi, 1861: 743, by original designation.

Genus *Tasmanelater* Calder, 1996

Tasmanelater Calder, 1996: 250. Gender: masculine. Type species: *Tasmanelater pelionensis* Calder, 1996: 255, by original designation.

Genus *Wynarka* Calder, 1986

Wynarka Calder, 1986: 111. Gender: neuter (ICZN 1999, Art. 30.2.3). Type species: *Wynarka sylvestre* Calder, 1986: 113, by original designation.

Genus *Xuthelater* Calder, 1996

Xuthelater Calder, 1996: 261. Gender: masculine. Type species: *Xuthelater moppiensis* Calder, 1996: 265, by original designation.

Subfamily Physodactylinae Lacordaire, 1857

Physodactylides Lacordaire, 1857: 236. Type genus: *Physodactylus* Fischer von Waldheim, 1823.

Physodactilini: Schwarz 1897: 12 [unavailable name, incorrect subsequent spelling not in prevailing usage]

Physodactilinae: Fleutiaux 1919: 106 [unavailable name, incorrect subsequent spelling not in prevailing usage]

Physodactytinae: Fleutiaux 1935: 116 [unavailable name, incorrect subsequent spelling not in prevailing usage]

Genus *Dactylophysus* Fleutiaux, 1892

Dactylophysus Fleutiaux, 1892: 408. Gender: masculine. Type species: *Dactylophysus capixabensis* Rosa, 2014: 249 (misidentification of *Dactylophysus mendax* Candèze, 1859 by Fleutiaux (1892)), fixed subsequently by Rosa (2014: 249) under ICZN (1999, Art. 70.3).

Genus *Physodactylus* Fischer von Waldheim, 1823

Physodactylus Fischer von Waldheim, 1823: 301. Gender: masculine. Type species: *Physodactylus henningsii* Fischer von Walheim, 1823: 303, by monotypy.

Drepanius Perty, 1830: 24. Gender: masculine. Type species: *Drepanius clavipes* Perty, 1830: 25, by monotypy. Synonymised with *Physodactylus* Fischer von Waldheim, 1823 by Laporte (1840: 254).

Drepranius: Schwarz 1907: 311 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Subfamily Pityobiinae Hyslop, 1917

Pityobini Hyslop, 1917: 249. Type genus: *Pityobius* LeConte, 1853. Incorrect original stem formation, not in prevailing usage; see Bouchard et al. (2011).

Pytiobinae: Dolin (1968: 64) [unavailable name, incorrect subsequent spelling not in prevailing usage].

Pityobinae: Gurjeva (1974a: 103) [unavailable name, incorrect subsequent spelling not in prevailing usage].

Pityobiinae: Dolin (1975: 1629). Correct stem formation.

Pytiobiininae: Arias-Bohart and Elgueta 2012: 648 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Pytiobiinini: Arias-Bohart and Elgueta 2012: 648 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Pytiobiinae: Arias-Bohart and Elgueta 2015: 13 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Pityobius* LeConte, 1853

Pityobius LeConte, 1853: 428. Gender: masculine. Type species: *Pityobius anguinus* LeConte, 1853: 428, by monotypy.

Calocerus LeConte, 1853: 428. Gender: masculine. Type species: *Pityobius anguinus* LeConte, 1853: 428, by monotypy. First proposed as a synonym of *Pityobius* LeConte, 1853. The name *Calocerus* LeConte, 1853 is available because it was treated as a senior homonym [of *Calocerus* Fauvel, 1891: 88; Coleoptera: Staphylinidae] before 1961 by Blackwelder (1952: 90) (ICZN 1999, Art. 11.6.1). First Reviser (ICZN 1999, Art. 24.2) found (*Pityobius* LeConte, 1853 vs. *Calocerus* LeConte, 1853) is Arnett (1962: 505). However, the specific name *niger* published by LeConte, 1853 is not available as it has never been used as valid or considered a homonym. The originally included species in *Calocerus* LeConte is that species listed by LeConte as valid, i.e., *Pityobius anguinus* LeConte, 1853 (see ICZN 1999, Article 67.12).

Pytiobius: Schwarz 1906a: 192 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Genus *Tibionema* Solier, 1851

Tibionema Solier, 1851: 30. Gender: neuter (erroneously used as feminine in original description). Type species: *Tibionema rufiventre* Solier, 1851: 31, by original designation.

Subfamily Subprotelaterinae Fleutiaux, 1920

Subprotelaterinae Fleutiaux, 1920: 99. Type genus: *Subprotelater* Fleutiaux, 1916.

Genus *Subprotelater* Fleutiaux, 1916

Subprotelater Fleutiaux, 1916b: 387. Gender: masculine. Type species: *Subprotelater bakeri* Fleutiaux, 1916b: 387, by monotypy.

Subfamily Tetralobinae Laporte, 1840

Tetralobites Laporte, 1840: 230. Type genus: *Tetralobus* Lepeletier & Audinet-Serville, 1828.

Tribe Tetralobini Laporte, 1840

Tetralobites Laporte, 1840: 230. Type genus: *Tetralobus* Lepeletier & Audinet-Serville, 1828.

Phyllophoridae Hope, 1842: 73. Type genus: *Phyllophorus* Hope, 1842. Preoccupied by *Phyllophorus* Grube, 1840 [Echinodermata]; syn. of *Tetralobus* Lepeletier and Audinet-Serville, 1828. Permanently invalid (ICZN 1999, Art. 39), based on preoccupied type genus.

Piezophyllini Laurent, 1967: 85. Type genus: *Piezophyllus* Hope, 1842.

Tetralobilini: Costa, Casari-Chen & Vanin, 1992: 887 [incorrect stem formation (ICZN 1999, Art. 29.3)].

Genus *Neotetralobus* Girard, 1987

Neotetralobus Girard, 1987: 49. Gender: masculine. Type species: *Neotetralobus africanus* Girard, 1987: 51, by monotypy.

Genus *Paratetralobus* Laurent, 1964

Paratetralobus Laurent, 1964: 220. Gender: masculine. Type species: *Tetralobus hemirhipoides* Fleutiaux, 1919: 36, by original designation.

Genus *Pseudalaus* Laurent, 1967

Pseudalaus Laurent, 1967: 92. Gender: masculine. Type species: *Tetralobus dohrni* Candèze, 1882: 26, by original designation.

Genus *Pseudotetralobus* Schwarz, 1902

Pseudotetralobus Schwarz, 1902a: 210. Gender: masculine. Type species: *Pseudotetralobus dohrni* Schwarz, 1902a: 211, by monotypy.

Genus *Sinelater* Laurent, 1967

Sinelater Laurent, 1967: 94. Gender: masculine. Type species: *Tetralobus perroti* Fleutiaux, 1940: 107, by original designation.

Genus *Tetralobus* Lepeletier & Audinet-Serville, 1828

Tetralobus Lepeletier & Audinet-Serville, 1828: 594. Gender: masculine. Type species: *Elater flabellicornis* Linnaeus, 1767: 651, by subsequent designation (Lacordaire 1857: 164).

Subgenus *Dodecamerus* Laurent, 1968

Dodecamerus Laurent, 1968: 328. Gender: masculine. Type species: *Tetralobus angolensis* Laurent, 1968: 328, by monotypy.

Subgenus *Tetralobus* Lepeletier & Audinet-Serville, 1828

Tetralobus Lepeletier & Audinet-Serville, 1828: 594. Gender: masculine. Type species: *Elater flabellicornis* Linnaeus, 1767: 651, by subsequent designation (Lacordaire 1857: 164).

Phyllophorus Hope, 1842: 73. Gender: masculine. Type species: *Elater gigas* Fabricius, 1801: 221, by monotypy. Preoccupied by *Phyllophorus* Grube, 1840: 38 [Echinodermata].

Charitophyllus Lacordaire, 1857: 165. Gender: masculine. Replacement name for *Phyllophorus* Hope, 1842. Synonymised with *Tetralobus* Lepeletier & Audinet-Serville, 1828 by Candèze (1857: 366).

Tetralobius: Froggatt 1917: 894 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Tetralobes: Kubackova and Kundrata 2017: 161 [unavailable name, incorrect subsequent spelling not in prevailing usage erroneously attributed to Dolin (ICZN 1999, Art. 33.3)].

Tribe Piezophyllini Laurent, 1967

Piezophyllini Laurent, 1967: 96. Type genus: *Piezophyllus* Hope, 1842.

Genus *Piezophyllus* Hope, 1842

Piezophyllus Hope, 1842: 76. Gender: masculine. Type species: *Tetralobus robustus* Hope, 1842: 75 (syn. of *Tetralobus macrocerus* Laporte, 1838: 12), by original designation.

Cladocerus: Harold 1869: 1509 [unavailable name, first proposed as a synonym and not made available subsequently (ICZN 1999, Art. 11.6)]. If found to be available then preoccupied by *Cladocerus* Rafinesque, 1819: 429 [Coelenterata].

Coresus Harold 1869: 1509. Gender: masculine. Type species: *Tetralobus macrocerus* Laporte, 1838: 12, by monotypy. Originally proposed as a synonym of *Piezophyllus* Hope, 1842 and subsequently treated as valid.

Dido Arnett, 1955: 600. Gender: feminine. Type species: *Tetralobus macrocerus* Laporte, 1838: 12, by original designation. Junior objective synonym of *Coresus* Harold 1869.

Hopelater Laurent, 1967: 99. Gender: masculine. Type species: *Piezophyllus spencei* Hope, 1842: 76, by original designation. Synonymised with *Piezophyllus* Hope, 1842 by Costa et al. (1994: 120).

Piezophilus: Costa, Casari-Chen & Vanin, 1992: 879 [unavailable name, incorrect subsequent spelling not in prevailing usage].

Piezophylus: Costa, Casari-Chen and Vanin 1992: 879 [unavailable name, incorrect subsequent spelling not in prevailing usage].

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