

SYNOPTIC CLASSIFICATION OF THE WORLD TENEBRIONIDAE (INSECTA: COLEOPTERA) WITH A REVIEW OF FAMILY-GROUP NAMES

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Abstract.— A synoptic classification of the Tenebrionidae is presented. The family is divided into 10 subfamilies, 96 tribes and 61 subtribes. A catalogue containing 319 family-group names based on 266 genera is also included. Each family-group name entry includes data on original spelling and type genus. All references associated with family-group and genus-group names were examined (except where indicated otherwise) and listed in the bibliography. Current usage of family-group and genus-group names were preserved, when possible, to promote stability of the classification. A summary of the required changes of family-group names in Tenebrionidae is presented in a tabular format.

The following family-group names were based on preoccupied type genera and are therefore invalid: Anisocerini Reitter, Apolitina Seidlitz, Calcariens Mulsant, Cisteleniae Latreille, Cnemodini Horn, Dysantinae Gebien, Eutérides Lacordaire, Hétéroscérites Solier, Omocratates Mulsant and Rey, Pachycerina Skopin, Pandarites Mulsant and Rey, Phanerotomina Koch and Phylacides Lacordaire. The following family-group names were proposed in a vernacular form and not subsequently Latinized and are therefore unavailable: Alégoriides Lacordaire, Autocérides Lacordaire, Camarides Chenu and Desmarest, Cardiosites Deyrolle, Cnemeplatiites Jacquelin DuVal, Cylindrothorides Lacordaire, Dilamites Jacquelin DuVal, Dissonomites Jacquelin DuVal, Embaphionides Lacordaire, Eutomides Lacordaire, Gnathocérites Jacquelin DuVal, Héliopathaires Mulsant, Héliopathates Mulsant and Rey, Hypéropides Lacordaire, Isocérates Mulsant and Rey, Macropodites Solier, Micrositates Mulsant and Rey, Phobéliides Lacordaire, Onychosites Deyrolle, Pachyptérites Jacquelin DuVal, Sitophagiens Mulsant, Trachynotides Brullé and Trigonopaires Mulsant and Rey. The following names were proposed after 1930 without a description or definition and are therefore unavailable: Anaedini Skopin, Ectromopsini Antoine, Eupsophulites Kwieton, Hoplocephalini Kwieton, Praogenini Ferreira, Stenotrichinae Blaisdell, Thesileini Kaszab and Xanthomini Antoine. The following changes were implemented based on the Principle of Priority (with the junior synonym in parentheses): Adelostomini (= Eurychorini), Amphidorini (= Eleodini), Centriopterini (= Cryptoglossini), Cnodalonini (= Coelometopini), Edrotini (= Eurymetopini), Eurynotini (= Oncotini), Melambiini (= Litoborini), Sepidiini (= Molurini), Stenochiinae (= Coelometopinae), Stenochiini (= Strongyliini), Xystropodina (= Lystronychina). Supporting references are given for the preservation of the tribe name Pycnocerini **nom. protectum**, which is given precedence over Chiroscelini **nom. oblitum**. Dysantina Gebien, 1922 [type genus: *Dysantes* Pascoe, 1871; not Foerster, 1868: Hymenoptera] is replaced by Eudysantina **nom. nov.** [type genus: *Eudysantes* **nom. nov.** for *Dysantes* Pascoe]. The subfamily Palorinae Matthews, 2003 is downgraded to a tribe (Palorini **stat. nov.**) and placed in the subfamily Tenebrioninae. Neopsectropinae Kaszab, 1941 **syn. nov.** = Ulomini Blanchard, 1845. Rhipidandri LeConte, 1862 **syn. nov.** and Eutomides Lacordaire, 1866 **syn. nov.** = Bolitophagini Kirby, 1837.

Dejean (1834) is recognized as the author of the following genera for the first time: *Epiphysa*, *Leichenium*, *Leptodes*, *Microzoum* and *Sclerum*. *Scleron* Hope, 1840 **syn. nov.** = *Sclerum* Dejean, 1834. *Sepedonastes* Gistel, 1856 **syn. nov.** = *Phaleria* Latreille, 1802. *Sepedonastes bimaculatus* Herbst, 1799 is designated as the type species of *Sepedonastes*. *Isocerus* Dejean, 1821 is a junior homonym of *Isocerus* Illiger, 1802: Cerambycidae. *Neoisocerus* **nom. nov.** is proposed as the replacement name for *Isocerus* Dejean, 1821. Supporting references are included for the preservation of the genus name *Strongylium* Kirby, 1819 **nom. protectum**, which is given precedence over *Strongylium* Ditmar, 1809: Protozoa **nom. oblitum** under Article 23.9.



Key words.— Tenebrionidae, darkling beetles, nomenclature, classification, family-group names.

INTRODUCTION

The family Tenebrionidae is one of the most diverse within Coleoptera. The last catalogue of the world fauna contained more than 15 000 species (Gebien 1937, 1938a–1942a, 1942b–1948). The morphological diversity of the members of this family is such that it is very difficult to diagnose the entire fauna (Aalbu et al. 2002). A synthetic treatment of the taxonomy, biology and distribution of Tenebrionidae is in preparation (Matthews et al. in press).

The great importance of family-group names for the classification and nomenclatural stability of Coleoptera was clearly demonstrated by Lawrence and Newton (1995). In an attempt to provide a stable classification scheme for the family Tenebrionidae, we provide a synoptic classification of the world fauna that summarizes recent knowledge about the relationships among supra-generic groups as well as a catalogue of family-group names proposed in the literature to date. This paper follows similar contributions to the Geadephaga (Madge 1989), Staphyliniformia (Newton and Thayer 1992) and Cucujoidea (Pakaluk et al. 1994).

METHODS

Treatment of family-group names

In order to promote stability of the classification of Tenebrionidae, the current spelling of family-group names and type genus names were preserved whenever possible (Table). The following Articles of the International Code of Zoological Nomenclature (ICZN 1999) were used to preserve current spelling of family-group names.

Art. 23.9. Reversal of precedence. In accordance with the purpose of the Principle of Priority..., its application is moderated as follows: 23.9.1. prevailing usage must be maintained when the following conditions are both met: 23.9.1.1. the senior synonym or homonym has not been used as a valid name after 1899, and 23.9.1.2. the junior synonym or homonym has been used for a particular taxon, as its presumed valid name, in at least 25 works, published by at least 10 authors in the immediately preceding 50 years and encompassing a span of not less than 10 years.

The names Adelostomini and Sepidiini were used as valid in the early 1900s and therefore the commonly used Eurychorini and Molurini could not be preserved because the conditions of Art. 23.9.1.1 could not be met. Similarly, the commonly used names Eurymetopini, Eleodini, Oncotina and Litoborina could not be preserved because they were all proposed after 1899 and older names are available for those taxa. The conditions of Art. 23.9.1.2. could not be met to preserve Cryptoglossini over Centriopterini.

Art. 29.5. Maintenance of current spelling. If a spelling of a family-group name was not formed in accordance with Art. 29.3 but is in prevailing usage, that spelling is to be maintained, whether or not it is the original spelling and whether or not its derivation from the name of the type genus is in accordance with the grammatical procedures in Articles 29.3.1 and 29.3.2.

Art. 35.4.1. Formation and treatment of family-group names. A family-group name based upon an unjustified emendation... or an incorrect spelling of the name of the type genus must be corrected, unless it is preserved under Article 29.5 or unless the spelling of the genus-group name used to form the family-group name is preserved under Articles 33.2.3.1 or 33.3.1.

Art. 35.5. Precedence for names in use at higher rank. If after 1999 a name in use for a family-group taxon... is found to be older than a name in prevailing usage for a taxon at higher rank in the same family-group taxon... the older name is not to displace the younger name.

Art. 40.2. Names replaced before 1961. If, however, a family-group name was replaced before 1961 because of the synonymy of the type genus, the substitute name is to be maintained if it is in prevailing usage.

Art. 40.2.1. A name maintained by virtue of this Article retains its own author but takes the priority of the replaced name, of which it is deemed to be the senior synonym.

Recommendation 40A. Citation of author and date. If the author and date are cited, a family-group name maintained under the provisions of Article 40.2.1 should be cited with its original author and date..., followed by the date of its priority as determined by this Article; the date of priority should be enclosed in parentheses.

As proposed by Newton and Thayer (1992), we have applied Art 11.7.2 for the treatment of names proposed in a vernacular form.

Art. 11.7.2. If a family-group name was published before 1900, in accordance with the above provisions of this Article [Art. 11.7. Family-group name] but not in Latinized form, it is available with its original author and date only if it has been Latinized by later authors and has been generally accepted as valid by authors interested in the group concerned and as dating from that first publication in vernacular form. The first use of the Latinized form we could find is included for available names previously proposed in vernacular form. In accordance with Lawrence and Newton (1995) we have treated all family-group names proposed by Billberg (1820) as Latinized.

The full citation associated with a family-group name is always associated with the lowest rank name when more than one rank uses the same stem. The original spelling of the family-group name is given in each case. Significant subsequent changes to the family-group names (followed by “:”) are also included when appropriate. The subfamilies and tribes are listed in what we consider to be a consensus of the classification of the family based on recent literature (Watt 1967, 1974, Doyen and Lawrence 1979, Doyen and

Tschinkel 1982, Doyen et al. 1990, Aalbu et al. 2002, Iwan 2001, 2004, Matthews and Bouchard 2005, Matthews et al. in press). Subtribes are listed in alphabetical order within tribes. In a small number of cases, a family-group name was proposed by two authors in the same year. Because we could not establish which name was published first, we have listed both authors after these names. We defer the final choice of author until clear evidence about the dates of publication is obtained.

Treatment of genus-group names

The following Articles of the International Code of Zoological Nomenclature (ICZN 1999) were used to preserve current spelling or usage of genus-group names.

Art. 23. 9. Reversal of precedence. See description under "Treatment of family-group names" above.

Art. 33.2.3.1. When an unjustified emendation is in prevailing usage and is attributed to the original author and date it is deemed to be a justified emendation.

Art. 33.3.1. When an incorrect subsequent spelling is in prevailing usage and is attributed to the publication of the original spelling, the subsequent spelling and attribution are to be preserved and the spelling is deemed to be a correct original spelling.

Nomenclatural notes

The junior synonym Pycnocerini Lacordaire, 1859 nom. protectum, is given precedence over Chiroscelini Hope, 1840 / Laporte, 1840 nom. oblitum following Art. 23.9 of the Code (see supporting references in Appendix 1). *Dysantina* Gebien, 1922 [type genus: *Dysantes* Pascoe, 1871, not Foerster, 1868: Hymenoptera] is replaced by *Eudysantina* nom. nov. [type genus: *Eudysantes* nom. nov. for *Dysantes* Pascoe]. Six genera listed in Dejean's "Catalogue des Coléoptères" were found to be available because they included at least one available species at the time. These were previously treated as *nomina nuda*. The following changes are therefore necessary: *Epiphysa* Dejean, 1834 (previously credited to Blanchard 1845), *Leichenum* Dejean, 1834 (previously credited to Blanchard 1845), *Leptodes* Dejean, 1834 (previously credited to Solier 1838), *Microzoum* Dejean, 1834 (previously credited to Redtenbacher 1845) and *Sclerum* Dejean, 1834 (senior synonym of *Scleron* Hope, 1840 syn. nov.). The genus *Imatismus* Dejean, 1834 is also available. Because the generic concepts of *Himatismus* Erichson, 1843 and *Curimosphena* Gebien, 1920 are threatened by the use of *Imatismus* Dejean, we preferred not to implement this change in our catalogue. An application to the Commission is necessary to determine the status of *Imatismus* Dejean, 1834. *Sepedonastes* Gistel, 1856: 382 syn. nov. [type species *Sepedonastes bimaculatus* Herbst, 1799 design. nov.; this name is now a junior synonym of *Dytiscus bimaculatus* Linnaeus, 1767] = *Phaleria* Latreille, 1802. *Isocerus*

Dejean, 1821 is a junior homonym of *Isocerus* Illiger, 1802: Cerambycidae. *Neoisocerus* nom. nov. is proposed as the replacement name for *Isocerus* Dejean, 1821. The junior homonym *Strongylium* Kirby, 1819a nom. protectum is given precedence over *Strongylium* Ditmar, 1809: Protozoa nom. oblitum following Art. 23.9 of the Code (see supporting references in Appendix 2).

SYNOPTIC CLASSIFICATION OF THE WORLD TENEBRIONIDAE

TENEBRIONIDAE Latreille, 1802

LAGRIINAE Latreille, 1825 (1820)

LAENINI Seidlitz, 1896

ADELIINI Hope, 1840

PYCNOCERINI Lacordaire, 1859 **nom. protectum**

GONIADERINI Lacordaire, 1859

LUPROPINI Ardoin, 1958

LAGRIINI Latreille, 1825 (1820)

LAGRIINA Latreille, 1825 (1820)

STATIRINA Blanchard, 1845

CHAERODINI Doyen, Matthews et Lawrence, 1990

COSSYPHINI Latreille, 1802

BELOPINI Reitter, 1917

NILIONINAE Lacordaire, 1859

COSSYPHODINAE Wasmann, 1899

COSSYPHODINI Wasmann, 1899

COSSYPHODITINI Basilewsky, 1950

ESEMEPHINI Steiner, 1980

PARAMELLONINI Andreae, 1961

PHRENAPATINAE Solier, 1834

ARCHAEOGLENINI Watt, 1974

PENETINI Lacordaire, 1859

PHRENAPATINI Solier, 1834

ZOLODININAE Watt, 1974

PIMELIINAE Latreille, 1802

BOROMORPHINI Skopin, 1978

CAENOCRYPTICINI Koch, 1958

CNEMEPLATIINI Csiki, 1953

ACTIZETINA Watt, 1992

CNEMEPLATIINA Csiki, 1953

RONDONIPELLINA Ferrer et Moragues, 2000

THORICTOSOMATINA Watt, 1992

IDISIINI Medvedev, 1973

FALSOMYCTERINI Gebien, 1910

LACHNOGYINI Seidlitz, 1894

KLEWARIINA Gebien, 1910

LACHNOGYINA Seidlitz, 1894

NETUSCHILIINA Ferrer et Yvinec, 2004

VACRONINI Gebien, 1910

STENOSINI Lacordaire, 1859 / Schaum, 1859 (1834)

ZOPHOSINI Solier, 1834

ERODIINI Billberg, 1820

ADELOSTOMINI Solier, 1834 (= EURYCHORINI Solier, 1837)

- CERATANISINI Gebien, 1937
 SEPIDIINI Eschscholtz, 1829 (= MOLURINI Solier, 1834)
 HYPOMELINA Koch, 1955
 MOLURINA Solier, 1834
 OXURINA Koch, 1955
 PHANEROTOMEINA Koch, 1955
 SEPIDIINA Eschscholtz, 1829
 TRACHYNOTINA Koch, 1955
 AKIDINI Billberg, 1820
 CRYPTOCHILINI Solier, 1840
 CALOGNATHINA Lacordaire, 1859
 CRYPTOCHILINA Solier, 1840
 HOMEBIINA Endrödy-Younga, 1989
 HORATOMINA Koch, 1955
 VANSONIINA Koch, 1955
 PIMELIINI Latreille, 1802
 ANEPSIINI LeConte, 1862
 CENTRIOPTERINI Lacordaire, 1859 (= CRYPTOGLOSSINI LeConte, 1862)
 NYCTOPORINI Lacordaire, 1859
 ELENOPHORINI Solier, 1837
 NYCTELIINI Solier, 1834
 PHYSOGASTERINI Lacordaire, 1859
 PRAOCIINI Eschscholtz, 1829
 CONIONTINI Lacordaire, 1859 / Schaum, 1859
 BRANCHINI LeConte, 1862
 ASIDINI Fleming, 1821
 CNEMODININI Gebien, 1910
 TRILOBOCARINI Lacordaire, 1859
 EPITRAGINI Blanchard, 1845
 EDROTINI Lacordaire, 1859 (= EURYMETOPINI Casey, 1907)
 PHRYNOCARENINI Gebien, 1928
 THINOBATINI Lacordaire, 1859
 EVANIOSOMINI Lacordaire, 1859
 ADESMIINI Lacordaire, 1859
 TENTYRIINI Eschscholtz, 1831
 KUHITANGIINI Medvedev, 1962
 LEPTODINI Lacordaire, 1859
TENEBRIONINAE Latreille, 1802
 PALORINI Matthews, 2003a **stat. nov.**
 TOXICINI Lacordaire, 1859
 EUDYSANTINA **nom. nov.**
 NYCTEROPINA Lacordaire, 1859
 TOXICINA Lacordaire, 1859
 BOLITOPHAGINI Kirby, 1837
 TENEBRIONINI Latreille, 1802
 CENTRONOPINI Doyen, 1989
 TITAEININI Fauvel, 1905
 HELEINI Fleming, 1821
 ASPHALINA Matthews et Lawrence, 2005
 CYPHALEINA Lacordaire, 1859
 HELEINA Fleming, 1821
 ACROPTERONINI Doyen, 1989
 ALPHITOBIIINI Reitter, 1917
 TRIBOLIINI Mulsant, 1854
 ULOMINI Blanchard, 1845
 HELOPINI Latreille, 1802
 HELOPININI Lacordaire, 1859
 APTILINA Koch, 1958
 HELOPININA Lacordaire, 1859
 MICRANTEREINA Reitter, 1917
 ONCOSOMINA Koch, 1958
 AMARYGMINI Gistel, 1856
 RHYSOPAUSSINI Wasmann, 1896
 CERENOPINI Horn, 1870
 EULABINI Horn, 1870
 APOCRYPHINI Lacordaire, 1859
 SCAURINI Billberg, 1820
 SCOTOBIINI Solier, 1838
 BLAPTINI Leach, 1815
 BLAPTINA Leach, 1815
 GNAPTORINA Medvedev, 2001
 GNAPTORININA Medvedev, 2001
 PROSODINA Skopin, 1960
 REMIPEDELLINA Semenov, 1907
 PRAEUGENINI De Moor, 1970
 AMPHIDORINI LeConte, 1862 (= ELEODINI Blaisdell, 1909)
 PEDININI Eschscholtz, 1829
 DENDARINA Seidlitz, 1889
 EURYNOTINA Mulsant et Rey, 1854 (= ONCOTINA Koch, 1953)
 LEICHENINA Mulsant, 1854
 LOENSINA Koch, 1956
 MELAMBIINA Mulsant et Rey, 1854 (= LITOBORINA Antoine, 1941)
 PEDININA Eschscholtz, 1829
 PLATYNOTINA Mulsant et Rey, 1853
 PYTHIOPINA Koch, 1953
 OPATRINI Brullé, 1832
 HETEROCHEIRINA Koch, 1956
 HETEROTARSINA Blanchard, 1845
 OPATRINA Brullé, 1832
 PACHYPTERINA Medvedev, 1968
 PLATYSCOLIDINI Lacordaire, 1859
 DISSONOMINI Medvedev, 1968
 MELANIMINI Seidlitz, 1894 (1854)
ALLECULINAE Laporte, 1840
 ALLECULINI Laporte, 1840
 ALLECULINA Laporte, 1840
 GONODERINA Seidlitz, 1896
 MYCETOCHARINA Mulsant, 1856 / Gistel, 1856
 XYSTROPODINA Solier, 1835 (= LYSTRONYCHINA Lacordaire, 1859)
 CTENIOPODINI Solier, 1835
DIAPERINAE Latreille, 1802
 DIAPERINI Latreille, 1802
 ADELININA LeConte, 1862
 DIAPERINA Latreille, 1802
 HYOCIINI Medvedev et Lawrence, 1982
 BRITTONINA Medvedev et Lawrence, 1986

HYOCIINA Medvedev et Lawrence, 1982

UPTONINA Medvedev et Lawrence, 1986

ECTYCHINI Doyen, Matthews et Lawrence, 1990

CRYPTICINI Brullé, 1832

PHALERIINI Blanchard, 1845

TRACHYSCHELEINI Blanchard, 1845

MYRMECHIXENINI Jacquelin DuVal, 1858

HYPOPHLAEINI Billberg, 1820

GNATHIDIINI Gebien, 1921

ANOPIIDIINA Jeannel and Paulian, 1945

GNATHIDIINA Gebien, 1921

SCAPHIDEMINI Reitter, 1922

LEIOCHRININI Lewis, 1894

STENOCHIINAE Kirby, 1837 (= COELOMETOPINAE

Lacordaire, 1859 / Schaum, 1859)

CNODALONINI Gistel, 1856 (= COELOMETOPINI

Lacordaire, 1859 / Schaum, 1859)

STENOCHIINI Kirby, 1837 (= STRONGYLIINI

Lacordaire, 1859)

TALANINI Champion, 1887 (1883)

CATALOGUE OF FAMILY-GROUP NAMES

TENEBRIONIDAE Latreille, 1802

LAGRIINAE Latreille, 1825 (1820). Comment: use of family-group name preserved following Art. 40.2.

LAENINI Seidlitz, 1896

Laenina Seidlitz, 1896a: 669. Type genus: *Laena* Dejean, 1821: 64.

ADELIINI Hope, 1840

Adeliadae Hope, 1840: 188. Type genus: *Adelium* Kirby, 1819a: 420.

PYCNOCERINI Lacordaire, 1859 **nom. protectum**

Chiroschelidae Hope, 1840: 127 **nom. oblitum** (see comments under Pycnoceridae below). Type genus: *Chiroschelis* Lamarck, 1804: 261.

Chiroschelites Laporte, 1840: 216 **nom. oblitum** (see comments under Pycnoceridae below). Type genus: *Chiroschelis* Lamarck, 1804: 261.

Pycnoceridae Lacordaire, 1859: 399. Comment: name made available under Art. 11.7.2 (Pycnoceridae: Péringuey, 1892); tribe name given precedence over Chiroschelini Hope, 1840 / Laporte, 1840 **nom. oblitum** following Art. 23.9 (see supporting references in Appendix 1)). Type genus: *Pycnocerus* Westwood, 1841a: 67 (as replacement name for *Pachylocerus* Hope, 1840; not Hope 1834: Cerambycidae).

Prioscelina Skopin, 1964: 30. Type genus: *Prioscelis* Hope, 1840: 127, 128.

GONIADERINI Lacordaire, 1859

Goniaderidae Lacordaire, 1859: 390 (367 in key). Comment: name made available under Art. 11.7.2 (Goniaderina: Seidlitz 1896a). Type genus: *Goniadera* Perty, 1832: 62.

Phobéliides Lacordaire, 1859: 393. Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Phobelius* Blanchard, 1845: 39.

Phobeliina Ardoïn, 1961: 33. Comment: proposed as new without reference to Lacordaire's name; see previous record. Type genus: *Phobelius* Blanchard, 1845: 39.

Anaedini Skopin, 1964: 7. Comment: unavailable: not accompanied by a description or definition. Based on: *Anaedus* Blanchard, 1845: 35 (unjustified emendation from *Anoedus* by Lacordaire 1859; emended name in current usage, treated as a justified emendation following Art. 33.2.3.1).

LUPROPINI Ardoïn, 1958

Lupropsini Ardoïn, 1958: 59. Comment: incorrect original spelling. Type genus: *Luprops* Hope, 1833: 63.

Lupropina: Ardoïn 1961: 33. Comment: first use of correct stem. Type genus: *Luprops* Hope, 1833: 63.

LAGRIINI Latreille, 1825 (1820). Comment: use of family-group name preserved following Art. 40.2.

LAGRIINA Latreille, 1825 (1820). Comment: use of family-group name preserved following Art. 40.2.

Lachnaedes Billberg, 1820: 34. Comment: name made available under Art. 11.7.2. Based on: *Lachna* Billberg, 1820: 35 (= *Lagriia* Fabricius, 1775).

Lagriariae Latreille, 1825: 381. Type genus: *Lagriia* Fabricius, 1775: 124.

Loubacantini Bonadona, 1959: 1034. Comment: originally proposed in Anthicidae; transfer to Lagriinae in Bonadona (1984: 469). Type genus: *Loubacantus* Bonadona, 1959: 1033 (= *Entypodera* Gerstaecker, 1871).

STATIRINA Blanchard, 1845

Statyrites Blanchard, 1845: 39. Comment: name made available under Art. 11.7.2 (Statyrini: LeConte, 1862). Type genus: *Statira* Lepeletier and Audinet-Serville, 1828: 479 (as *Statyra*: incorrect subsequent spelling by Laporte 1840: 256).

Statirini: LeConte and Horn 1883: 393. Comment: first use of correct stem. Type genus: *Statira* Lepeletier and Audinet-Serville, 1828: 479.

CHAERODINI Doyen, Matthews and Lawrence, 1990

Chaerodini Doyen, Matthews and Lawrence, 1990: 231. Type genus: *Chaerodes* White, 1846: 12.

COSSYPHINI Latreille, 1802

Cossyphores Latreille, 1802: 164. Comment: name made available under Art. 11.7.2 (Cossyphidae: Schaum 1859); Lagriinae Latreille, 1825 (1820) given precedence for subfamily name following Art. 35.5; current placement of Cossyphini within Lagriinae uncertain. Type genus: *Cossyphus* Olivier, 1791: 121.

BELOPINI Reitter, 1917

Calcarens Mulsant, 1854: 263, 268. Comment: invalid: based on preoccupied genus name. Type genus:

Calcar Dejean, 1821: 67 (preoccupied genus name, not *Calcar* Denys de Montfort, 1810: Mollusca; replacement name = *Centorus* Mulsant, 1854).

Belopinae / Belopini Reitter, 1917: 59. Comment: as replacement name for Calcarini. Type genus: *Belopus* Gebien, 1911: 549 (as replacement name for *Calcar* Dejean, 1821, not Denys de Montfort 1810: Mollusca; = *Centorus* Mulsant, 1854).

NILIONINAE Lacordaire, 1859

Nilionides Lacordaire, 1859: 518. Comment: name made available under Art. 11.7.2 (Nilionidae: Champion 1888). Type genus: *Nilio* Latreille, 1802: 179 (incorrect subsequent spelling of *Nilion* by Latreille 1804: 333; incorrect subsequent spelling in current usage, treated as correct original spelling following Art. 33.3.1)

COSSYPHODINAE Wasmann, 1899

COSSYPHODINI Wasmann, 1899

Cossyphodidae Wasmann, 1899: 161. Type genus: *Cossyphodes* Westwood, 1851: 168.

COSSYPHODITINI Basilewsky, 1950

Cossyphoditinae Basilewsky, 1950: 187. Type genus: *Cossyphodites* Brauns, 1901: 91.

ESEMEPHINI Steiner, 1980

Esemephini Steiner, 1980: 391. Type genus: *Esemephe* Steiner, 1980: 385.

PARAMELLONINI Andreae, 1961

Paramelloninae Andreae, 1961: 200, 213. Type genus: *Paramellon* Waterhouse, 1882: iv.

PHRENAPATINAE Solier, 1834

ARCHAEOGLENINI Watt, 1974

Archaeoglenini Watt, 1974: 412. Type genus: *Archaeoglenes* Broun, 1893: 188 (originally described in Colydiidae).

PENETINI Lacordaire, 1859

Pénétides Lacordaire, 1859: 318. Comment: name made available under Art. 11.7.2 (Penetini: Doyen and Lawrence 1979). Type genus: *Peneta* Lacordaire, 1859: 319.

PHRENAPATINI Solier, 1834

Phrépatides Solier, 1834: 488. Comment: name made available under Art. 11.7.2 (Phrenapatinae: Gebien 1911); incorrect original spelling, based on misspelled type genus. Type genus: *Phrenapates* Gray, 1832: 91 (as *Phrepates*: incorrect subsequent spelling by Solier 1834).

Phrénapatites: Blanchard, 1845: 16. Comment: correction of stem. Type genus: *Phrenapates* Gray, 1832: 91.

ZOLODININAE Watt, 1974

Zolodininae Watt, 1974: 401. Type genus: *Zolodinus* Blanchard, 1847: plate 11, fig. 7

PIMELIINAE Latreille, 1802

BOROMORPHINI Skopin, 1978

Boromorphini Skopin, 1978: 228. Type genus: *Boromorphus* Wollaston, 1854: 492.

CAENOCRYPTICINI Koch, 1958

Caenocrypticini Koch, 1958: 121. Type genus: *Caenocrypticus* Gebien, 1920: 139.

CNEMEPLATIINI Csiki, 1953

ACTIZETINA Watt, 1992

Actizetina Watt, 1992: 297. Type genus: *Actizeta* Pascoe, 1875: 214.

CNEMEPLATIINA Csiki, 1953

Autocérides Lacordaire, 1859: 279 (255 in key). Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Autocera* Wollaston, 1857: 154 (= *Cnemeplatia* Costa, 1847).

Cnemeplatiites Jacquelin DuVal, 1861: 286. Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Cnemeplatia* Costa, 1847: 146.

Cnemeplatiini Csiki, 1953: 117. Comment: described as new without reference to Jacquelin DuVal's name; see previous record. Type genus: *Cnemeplatia* Costa, 1847: 146.

RONDONIELLINA Ferrer and Moragues, 2000

Rondoniellina Ferrer and Moragues, 2000: 100. Type genus: *Rondoniella* Kaszab, 1970: 112.

THORICTOSOMATINA Watt, 1992

Thorictosomatina Watt, 1992: 296. Type genus: *Thorictosoma* Lea, 1920: 257.

IDISIINI Medvedev, 1973

Idisiini Medvedev, 1973: 644. Type genus: *Idisia* Pascoe, 1866: 452.

FALSOMYCTERINI Gebien, 1910

Falsomycterinae Gebien, 1910: 177. Type genus: *Falsomycterus* Pic, 1907: 127.

LACHNOGYINI Seidlitz, 1894

KLEWARIINA Gebien, 1910

Klewariinae Gebien, 1910: 36. Type genus: *Klewaria* Reitter, 1910: 20.

[Klewariini] Reitter, 1910: 20. Comment: unavailable: family-group name not explicitly mentioned. Based on: *Klewaria* Reitter, 1910: 20.

LACHNOGYINA Seidlitz, 1894

Lachnogyini Seidlitz, 1894: 490. Type genus: *Lachnogyia* Ménétris, 1849: 228.

NETUSCHILIINA Ferrer and Yvinec, 2004

Netuschiliina Ferrer and Yvinec, 2004: 48. Type genus: *Netuschilia* Reitter, 1904: 35.

Netuschilina Ferrer and Yvinec, 2004: 48. Comment: incorrect original spelling of simultaneously published name. Type genus: *Netuschilia* Reitter, 1904: 35.

VACRONINI Gebien, 1910

[Vacronini] Casey, 1907: 508. Comment: unavailable: family-group name not explicitly mentioned.

Based on: *Vacronus* Casey, 1907: 508 (= *Alaephus* Horn, 1870).

Vacronini Gebien, 1910: 118. Type genus: *Vacronus* Casey, 1907: 508 (= *Alaephus* Horn, 1870).

Eupsophulites Kwieton, 1982: 96. Comment: unavailable: not accompanied by a description or definition. Based on: *Eupsophulus* Cockerell, 1906: 242.

STENOSINI Lacordaire, 1859 / Schaum, 1859 (1834).

Comment: use of family-group name preserved following Art. 40.2.

Tagénites Solier, 1834: 503. Comment: name made available under Art. 11.7.2 (Tagenidae: Hope 1840).

Type genus: *Tagenia* Latreille, 1802: 170 (= *Stenosis* Herbst, 1799).

Sténosides Lacordaire, 1859: 101 (85 in key). Type genus: *Stenosis* Herbst, 1799: 160.

Stenosidae Schaum, 1859: 66. Type genus: *Stenosis* Herbst, 1799: 160.

Platamodina Reitter, 1900: 82. Type genus: *Platamodes* Ménétré, 1849: 233.

Araeoschizini Casey, 1907: 484 (281 in key). Type genus: *Araeoschizus* LeConte, 1851: 138.

Typhlusechini Casey, 1907: 494 (281 in key). Type genus: *Typhlusechus* Linell, 1897: 154.

Dichillina Reitter, 1916: 137, 139. Type genus: *Dichillus* Jaquelin DuVal, 1861: 253.

Harvengina Ferrer, 2004: 370. Type genus: *Harvengia* Ferrer, 2004: 367.

ZOPHOSINI Solier, 1834

Zophosites Solier, 1834: 597. Comment: name made available under Art. 11.7.2 (Zophosini: Redtenbacher 1874). Type genus: *Zophosis* Latreille, 1802: 167.

Onychosites Deyrolle, 1867: 79. Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Onychosis* Deyrolle, 1867: 226.

Cardiosites Deyrolle, 1867: 79. Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Cardiosis* Deyrolle, 1867: 235.

Dactylocalcarini Gebien, 1938b: 46. Type genus: *Dactylocalcar* Gebien, 1938b: 46.

ERODIINI Billberg, 1820

Erodiides Billberg, 1820: 32. Comment: name made available under Art. 11.7.2. Type genus: *Erodius* Fabricius, 1775: 258.

ADELOSTOMINI Solier, 1834 (= EURYCHORINI)

Adelostomites Solier, 1834: 502. Comment: name made available under Art. 11.7.2 (Adelostomidae: Schaum 1859). Type genus: *Adelostoma* Duponchel, 1827: 342.

Eurychorites Solier, 1837a: 153. Comment: name made available under Art. 11.7.2 (Eurychorinae: Gebien 1910). Type genus: *Eurychora* Thunberg, 1791: 116.

CERATANISINI Gebien, 1937

Apolitina Seidlitz, 1896a: 666. Comment: invalid: based on preoccupied genus name. Type genus: *Apolites* Jaquelin DuVal, 1861: 324 (preoccupied

genus name, not *Apolites* Sundevall, 1835: Aves; replacement name = *Idastrandiella* Strand, 1929).

Anisocerini Reitter, 1906: 477. Comment: invalid: based on preoccupied genus name. Type genus: *Anisocerus* Faldermann, 1837: 39 (preoccupied genus name, not *Anisocerus* Audinet-Serville, 1835: Cerambycidae; replacement name = *Ceratanisus* Gemminger, 1870).

Ceratanisini Gebien, 1937: 791. Type genus: *Ceratanisus* Gemminger, 1870: 1818.

SEPIDIINI Eschscholtz, 1829 (= MOLURINI)

HYPOMELINA Koch, 1955

Hypomelina Koch, 1955: 36. Type genus: *Hypomelus* Solier, 1843: 93.

MOLURINA Solier, 1834

Molurites Solier, 1834: 505. Comment: name made available under Art. 11.7.2 (Moluridae: Schaum 1859). Type genus: *Moluris* Latreille, 1802: 169.

OXURINA Koch, 1955

Oxurina Koch, 1955: 34. Type genus: *Oxura* Kirby, 1819a: 413.

PHANEROTOMEINA Koch, 1955

Phanerotomina Koch, 1955: 37. Comment: invalid: based on preoccupied genus name. Type genus: *Phanerotoma* Solier, 1843: 82 (preoccupied genus name, not *Phanerotoma* Wesmael, 1838: Hymenoptera; = *Phanerotomea* Koch, 1958).

Phanerotomeina Koch, 1958: 58. Type genus: *Phanerotomea* Koch, 1958: 58 (as replacement name for *Phanerotoma* Solier, 1843, not Wesmael 1838: Hymenoptera).

SEPIDIINA Eschscholtz, 1829

Sepidae Eschscholtz, 1829: 4. Type genus: *Sepidium* Fabricius, 1775: 250.

TRACHYNOTINA Koch, 1955

Trachynotides Brullé, 1832: 189. Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Trachynotus* Latreille, 1829: 14 (*Trachynotus* Gravenhorst, 1829: Hymenoptera was described in the same year. Latreille's name is considered the older name since it was published in April of that year, whereas the month of publication of Gravenhorst's name is unknown and therefore must be considered to be 31 December 1829 (see Carlson, 1979)).

Trachynotina Koch, 1955: 34. Comment: proposed as new without reference to Brullé's name, see previous record. Type genus: *Trachynotus* Latreille, 1829: 14 (see comments about this genus name in previous record).

AKIDINI Billberg, 1820

Acides Billberg, 1820: 32. Comment: name made available under Art. 11.7.2; incorrect original spelling; based on unjustified emendation of type genus name. Type genus: *Akis* Herbst, 1799: 124 (as *Acis*: unjustified emendation of genus name by Billberg 1820).

- Akidites: Brullé, 1832: 194. Comment: first use of correct stem. Type genus: *Akis* Herbst, 1799: 124.
- CRYPTOCHILINI Solier, 1840
- CALOGNATHINA Lacordaire, 1859
- Calognathides Lacordaire, 1859: 85. Comment: name made available under Art. 11.7.2 (Calognathinae: Gebien 1910). Type genus: *Calognathus* Guérin-Méneville, 1836: 1.
- CRYPTOCHILINA Solier, 1840
- Cryptochilites Solier, 1840: 248. Comment: name made available under Art. 11.7.2 (Cryptochilidae: Péringuey 1888). Type genus: *Cryptochile* Latreille, 1829: 7.
- HOMEBIINA Endrödy-Younga, 1989
- Homebiina Endrödy-Younga, 1989: 124. Type genus: *Homebius* Endrödy-Younga, 1989: 124.
- HORATOMINA Koch, 1955
- Horatamina Koch, 1955: 14. Type genus: *Horatoma* Solier, 1840: 264.
- VANSONIINA Koch, 1955
- Vansonini Koch, 1955: 12. Type genus: *Vansonium* Koch, 1950b: 354.
- PIMELIINI Latreille, 1802
- Pimeliariae Latreille, 1802: 166. Type genus: *Pimelia* Fabricius, 1775: 251.
- Platyopidae Semenov, 1893a: 260. Type genus: *Platyope* Fischer von Waldheim, 1820: plate 15.
- Leucolaephusini Pierre, 1961: 558. Comment: incorrect original spelling. Type genus: *Leucolaephus* Lucas, 1859: xxii (incorrect subsequent spelling of *Leucoloephus* by Gemminger and Harold, 1870: 1897; incorrect subsequent spelling in current usage, treated as correct original spelling following Art. 33.3.1).
- Leucolaephini: Pierre 1964: 866. Comment: correction of stem. Type genus: *Leucolaephus* Lucas, 1859: xxii.
- ANEPSIINI LeConte, 1862
- Anepsiini LeConte, 1862: 215. Type genus: *Anepsius* LeConte, 1851: 147.
- Batuliini Horn, 1870: 270 (257 in key). Type genus: *Batulius* LeConte, 1851: 148.
- CENTRIOPTERINI Lacordaire, 1859 (= CRYPTOGLOSSINI)
- Centrioptérides Lacordaire, 1859: 134 (122 in key). Comment: name made available under Art. 11.7.2 (Centriopterae: LeConte 1862). Type genus: *Centrioptera* Mannerheim, 1843: 279 (= *Cryptoglossa* Solier, 1837).
- Cryptoglossini LeConte, 1862: 220. Type genus: *Cryptoglossa* Solier, 1837b: 680.
- NYCTOPORINI Lacordaire, 1859
- Nyctoporides Lacordaire, 1859: 130 (122 in key). Comment: name made available under Art. 11.7.2 (Nyctoporini: LeConte 1862). Type genus: *Nyctoporis* Eschscholtz, 1831: 11.
- ELENOPHORINI Solier, 1837
- Elenophorites Solier, 1837b: 638. Comment: name made available under Art. 11.7.2 (Elenophoridae: Schaum 1859). Type genus: *Elenophorus* Dejean, 1821: 64 (= *Leptoderis* Billberg, 1820).
- Helenophorini: Stein, 1868: 79. Comment: based on unjustified emendation of type genus name. Type genus: *Elenophorus* Dejean, 1821: 64 (as *Helenophorus*: unjustified emendation of genus name by Stein 1868; = *Leptoderis* Billberg, 1820).
- NYCTELIINI Solier, 1834
- Nyctélites Solier, 1834: 502. Comment: name made available under Art. 11.7.2 (Nyctelidae: Hope 1840). Type genus: *Nyctelia* Latreille, 1825: 375.
- PHYSOGASTERINI Lacordaire, 1859
- Physogastérides Lacordaire, 1859: 206 (117 in key). Comment: name made available under Art. 11.7.2 (Physogasterinae: Gebien 1910); incorrect original spelling, should be Physogastrini; original spelling in current usage, preserved following Art. 29.5. Type genus: *Physogaster* Guérin-Méneville, 1834: 2.
- PRAOCIINI Eschscholtz, 1829
- Praocidae Eschscholtz, 1829: 5. Type genus: *Praocis* Eschscholtz, 1829: 6.
- CONIONTINI Lacordaire, 1859 / Schaum, 1859
- Coniontides Lacordaire, 1859: 217, 218 (117 in key). Comment: name made available under Art. 11.7.2 (see record below). Type genus: *Coniontis* Eschscholtz, 1829: 7.
- Coniontidae Schaum, 1859: 68. Type genus: *Coniontis* Eschscholtz, 1829: 7.
- Coelini Casey, 1907: 500. Type genus: *Coelus* Eschscholtz, 1829: 5.
- Eusatti Doyen, 1984: 11. Type genus: *Eusattus* LeConte, 1851: 131.
- BRANCHINI LeConte, 1862
- Branchini LeConte, 1862: 222. Type genus: *Branchus* LeConte, 1862: 222.
- ASIDINI Fleming, 1821
- Asidadae Fleming, 1821: 51. Type genus: *Asida* Latreille, 1802: 167.
- Machlides Lacordaire, 1859: 155 (154 in key). Comment: name made available under Art. 11.7.2 (Machlini: Chatanay, 1914). Type genus: *Machla* Herbst, 1799: 152 (Lichtenstein's 1796: 67) earlier use of the name *Machla* has been suppressed for nomenclatural purposes (ICZN, 1995)).
- Astroti Horn, 1870: 289 (281 in key). Type genus: *Astrotus* LeConte, 1858: 19.
- [Craniotini] Horn, 1874: 29, 30. Comment: unavailable: family-group name not explicitly mentioned. Based on: *Craniotus* LeConte, 1851: 142.
- Craniotini LeConte and Horn, 1883: 361. Type genus: *Craniotus* LeConte, 1851: 142.
- Parecatini Chatanay, 1914: 2. Type genus: *Parecatus* Fairmaire, 1900: 245.

CNEMODININI Gebien, 1910

Cnemodini Horn, 1870: 266 (257 in key). Comment: invalid: based on preoccupied genus name. Type genus: *Cnemodus* Horn, 1870: 266 (preoccupied genus name, not *Cnemodus* Herrich-Schaeffer, 1850: Hemiptera; = *Cnemodinus* Cockerell, 1906).

Cnemodininae Gebien, 1910: 4. Type genus: *Cnemodinus* Cockerell, 1906: 242 (as replacement name for *Cnemodus* Horn, 1870, not Herrich-Schaeffer 1850: Hemiptera).

TRILOBOCARINI Lacordaire, 1859

Trilobocarides Lacordaire, 1859: 69 (33 in key). Comment: name made available under Art. 11.7.2 (Trilobocarini: Doyen 1994); incorrect original spelling; based on misspelled type genus name. Type genus: *Trilobocara* Solier, 1851: 129 (as *Trilobocara*: incorrect subsequent spelling of genus name by Lacordaire 1859).

Salaxini Casey, 1907: 282. Type genus: *Salax* Guérin-Méneville, 1834: 11.

Trilobocarini: Doyen, 1994: 501. Comment: first use of correct stem. Type genus: *Trilobocara* Solier, 1851: 129.

EPITRAGINI Blanchard, 1845

Épitragites Blanchard, 1845: 16. Comment: name made available under Art. 11.7.2 (Epitragini: LeConte 1862). Type genus: *Epitragus* Latreille, 1802: 165.

EDROTINI Lacordaire, 1859 (= EURYMETOPINI)

Édrotides Lacordaire, 1859: 31 (29 in key). Comment: name made available under Art. 11.7.2 (Edrotini: Casey 1907). Type genus: *Edrotes* LeConte, 1851: 140.

Auchmobii LeConte and Horn, 1883: 362. Type genus: *Auchmobius* LeConte, 1851: 139.

Triorophini LeConte and Horn, 1883: 362. Type genus: *Triorophus* LeConte, 1851: 141.

Eurymetoponini Casey, 1907: 285 (278 in key). Comment: incorrect original spelling. Type genus: *Eurymetopon* Eschscholtz, 1831: 8.

Trimytini Casey, 1907: 366 (278 in key). Type genus: *Trimytis* LeConte, 1851: 141.

Trientomini Casey, 1907: 376 (278 in key). Type genus: *Trientoma* Solier, 1835b: 256.

Eurymetopinae: Gebien, 1910: 11. Comment: first use of correct stem. Type genus: *Eurymetopon* Eschscholtz, 1831: 8.

PHRYNOCARENINI Gebien, 1928

Phrynocareninae Gebien, 1928: 105. Type genus: *Phrynocarenum* Gebien, 1928: 106.

THINOBATINI Lacordaire, 1859

Thinobatides Lacordaire, 1859: 63 (33 in key). Comment: name made available under Art. 11.7.2 (Thinobatini: LeConte 1862). Type genus: *Thinobatis* Eschscholtz, 1831: 8.

EVANIOSOMINI Lacordaire, 1859

Évaniosomides Lacordaire, 1859: 73 (33 in key). Comment: name made available under Art. 11.7.2

(Evaniosominae: Gebien 1910). Type genus: *Evaniosomus* Guérin-Méneville, 1834: 14.

ADESMIINI Lacordaire, 1859

Macropodites Solier, 1834: 501. Comment: unavailable: not based on available genus name. Based on: *Macropoda* Solier, 1835c: 515 (512 in key).

Macropodites Solier, 1835c: 509. Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Macropoda* Solier, 1835c: 515 (512 in key).

Adesmiides Lacordaire, 1859: 22 (14 in key). Comment: name made available under Art. 11.7.2 (Adesmiidae: Baudi di Selve 1875). Type genus: *Adesmia* Fischer von Waldheim, 1822: 153.

Mégagéniides Lacordaire, 1859: 27 (14 in key). Comment: name made available under Art. 11.7.2 (Megagenini: Reitter 1904). Type genus: *Megagenius* Solier, 1835c: 513 (512 in key).

Épiphysides Lacordaire, 1859: 29 (14 in key). Comment: name made available under Art. 11.7.2 (Epiphysini: LeConte 1862). Type genus: *Epiphysa* Dejean, 1834: 178.

TENTYRIINI Eschscholtz, 1831

Tentyridae Eschscholtz, 1831: 4. Type genus: *Tentyria* Latreille, 1802: 170.

Gnathosiides Lacordaire, 1859: 33. Comment: name made available under Art. 11.7.2 (Gnathosiini: LeConte 1862). Type genus: *Gnathosia* Fischer von Waldheim, 1821: 13.

Hypéropides Lacordaire, 1859: 60 (33 in key). Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Hyperops* Eschscholtz, 1831: 9.

Capnisini Casey, 1907: 279. Type genus: *Capnisa* Gebler, 1845: 100 (= *Gnathosia* Fischer von Waldheim, 1821).

[Himatismini] Casey, 1907: 282. Comment: unavailable: family-group name not explicitly mentioned. Based on: *Himatismus* Erichson, 1843: 253 (See note about status of this genus name in "Nomenclatural notes" section).

Pachycerina Skopin, 1979: 170. Comment: invalid: based on preoccupied genus name. Type genus: *Pachycera* Eschscholtz, 1831: 7 (preoccupied genus name, not *Pachycera* Billberg, 1820: Hemiptera, not *Pachycera* Stephens, 1827: Lepidoptera; = *Oedenocera* Reiche, 1862).

Himatismina Skopin, 1979: 170. Type genus: *Himatismus* Erichson, 1843: 253 (See note about status of this genus name in "Nomenclatural notes" section).

KUHITANGIINI Medvedev, 1962

Kuhitangiinae Medvedev, 1962: 1184. Type genus: *Kuhitangia* Medvedev, 1962: 1184.

LEPTODINI Lacordaire, 1859

Leptodides Lacordaire, 1859: 108 (85 in key). Comment: name made available under Art. 11.7.2 (Leptodidae: Baudi di Selve 1875). Type genus: *Leptodes* Dejean, 1834: 181.

TENEBRIONINAE Latreille, 1802

PALORINI Matthews, 2003 **stat. nov.** (see Acknowledgements).

Palorinae Matthews, 2003a: 49, 50. Comment: unavailable: not indicated as new, no type genus designated.

Palorinae Matthews, 2003b: 7. Type genus: *Palorus* Mulsant, 1854: 250.

TOXICINI Lacordaire, 1859**EUDYSANTINA nom. nov.**

Eudysantina **nom. nov.** Comment: replacement name for Dysantina Gebien. Type genus: *Eudysantes* **nom. nov.** (gender masculine; replacement name for *Dysantes* Pascoe, 1871, not Foerster 1868: Hymenoptera).

Dysantinae Gebien, 1922: 289. Comment: invalid: based on preoccupied genus name. Type genus: *Dysantes* Pascoe, 1871: 348 (preoccupied genus name, not *Dysantes* Foerster, 1868: Hymenoptera; = *Eudysantes* **nom. nov.**).

NYCTEROPINA Lacordaire, 1859

Nyctéropides Lacordaire, 1859: 388 (367 in key). Comment: name made available under Art. 11.7.2 (Nycteropini: Watt 1974). Type genus: *Nycteropus* Klug, 1833: 177.

TOXICINA Lacordaire, 1859

Toxicides Lacordaire, 1859: 341 (318 in key). Comment: name made available under Art. 11.7.2 (Toxicinae: Watt 1974). Type genus: *Toxicum* Latreille, 1802: 174.

BOLITOPHAGINI Kirby, 1837

Bolitophagidae Kirby, 1837: 236. Type genus: *Bolitophagus* Illiger, 1798: 100.

Boletophagidae: Agassiz, 1846a: 21. Comment: based on incorrect subsequent spelling of type genus name. Type genus: *Bolitophagus* Illiger, 1798: 100 (as *Boletophagus*; incorrect subsequent spelling from *Bolitophagus* by Say, 1827).

Heledonadae Gistel, 1856: 382. Comment: incorrect original spelling; based on unjustified emendation of type genus name. Type genus: *Eledona* Latreille, 1797: 19 (as *Heledona*: unjustified emendation from *Eledona* by Agassiz, 1846b).

Rhipidandri LeConte, 1862: 236 **syn. nov.** Comment: this family-group name has been used as a subtribe in recent classifications (e.g. Aalbu et al. 2002). However, Kompantseva (1995) and Merkl and Kompantseva (1996) demonstrated that there is no evidence for separating *Rhipidandrus* into its own subtribe. We accept the evidence from the latter authors. Type genus: *Rhipidandrus* LeConte, 1862: 236.

Eutomides Lacordaire, 1866: 369 **syn. nov.** Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Eutomus* Lacordaire, 1866: 369 (originally described in Curculionidae: Scolytinae;

not *Eutomus* Hope, 1838: Carabidae (incorrect subsequent spelling of *Eutoma* Newman, 1838); = *Rhipidandrus* LeConte, 1862).

TENEBRIONINI Latreille, 1802

Ténébrionites Latreille, 1802: 165, 170. Comment: name made available under Art. 11.7.2 (Tenebrionidae: Kirby 1819a). Type genus: *Tenebrio* Linnaeus, 1758: 417.

Biuini Skopin, 1978: 224. Comment: incorrect original spelling, should be Biini; Biini is preoccupied in Lepidoptera: Nymphalidae. Type genus: *Bius* Dejean, 1834: 205.

CENTRONOPINI Doyen, 1989

Centronopini Doyen, 1989: 284. Type genus: *Centronopus* Solier, 1848: 258.

TITAENINI Fauvel, 1905

Titaenini Fauvel, 1905: 209. Type genus: *Titaena* Erichson, 1842: 178.

HELEINI Fleming, 1821**ASPHALINA** Matthews and Lawrence, 2005

Asphalina Matthews and Lawrence, 2005: 544. Type genus: *Asphalus* Pascoe, 1868: xii.

CYPHALEINA Lacordaire, 1859

Cyphaléides Lacordaire, 1859: 407 (291, in key). Comment: name made available under Art. 11.7.2 (Cyphaleinae: Pascoe 1866). Type genus: *Cyphaleus* Westwood, 1841b: 43.

Nyctoziolides Lacordaire, 1859: 349 (345 in key). Comment: name made available under Art. 11.7.2 (Nyctoziolinae: Carter 1926). Type genus: *Nyctoziolus* Guérin-Méneville, 1831a: pl. 4, fig 2.

Céphaléides: Chenu and Desmarest, 1860: 165. Comment: based on incorrect subsequent spelling of type genus name. Type genus: *Cyphaleus* Westwood, 1841b: 43 (as *Cephalaeus*: incorrect subsequent spelling of genus name by Chenu and Desmarest 1860).

HELEINA Fleming, 1821

Heleadae Fleming, 1821: 51. Type genus: *Helea* Latreille, 1804: 326.

Briseinae Carter, 1926: 122, 127. Type genus: *Brises* Pascoe, 1869: 145.

ACROPTERONINI Doyen, 1989

Acroptonini Doyen, 1989: 288. Type genus: *Acropteron* Perty, 1832: 64.

ALPHITOBIIINI Reitter, 1917

Alphitobiini Reitter, 1917: 58. Type genus: *Alphitobius* Stephens, 1829: 19.

TRIBOLIINI Mulsant, 1854

Triboliens Mulsant, 1854: 184, 243. Comment: name made available under Art. 11.7.2 (Triboliidae: Gistel 1856). Type genus: *Tribolium* MacLeay, 1825: 47.

ULOMINI Blanchard, 1845

Ulolomites Blanchard, 1845: 16. Comment: name made available under Art. 11.7.2 (Ulolomina: Thomson 1859). Type genus: *Ulama* Dejean, 1821: 67.

Alégoriides Lacordaire, 1859: 325 (318 in key). Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Alegoria* Laporte, 1840: 221.

Neopsectropinae Kaszab, 1941: 30. **syn. nov.** (see Acknowledgements). Type genus: *Neopsectropus* Kaszab, 1941: 30.

HELOPINI Latreille, 1802

Helopii Latreille, 1802: 176. Type genus: *Helops* Fabricius, 1775: 257.

Enoplopites Solier, 1848: 155. Comment: name made available under Art. 11.7.2 (Enoplopini: Reitter 1917). Type genus: *Enoplopus* Solier, 1848: 158 (= *Accanthopus* Dejean, 1821).

Nephodini Reitter, 1917: 63. Type genus: *Nephodes* Blanchard, 1845: 34 (not *Nephodes* Schoenherr, 1840a: Curculionidae (unavailable genus name, published in synonymy and not subsequently validated, see Alonso-Zarazaga and Lyal 1999)).

Hedyphanina Reitter, 1922: 6. Type genus: *Hedyphanes* Fischer von Waldheim, 1820: plate 15.

Stenotrichinae Blaisdell, 1939: 50. Comment: unavailable: not accompanied by a description or definition. Based on: *Stenotrichus* LeConte, 1862: 240 (= *Helops* Fabricius, 1775).

Ectromopsini Antoine, 1949: 162. Comment: unavailable: not accompanied by a description or definition. Based on: *Ectromopsis* Antoine, 1949: 145.

Xanthomini Antoine, 1949: 162. Comment: unavailable: not accompanied by a description or definition. Based on: *Xanthomus* Mulsant, 1854: 302.

Cylindronotini Español, 1956: 84. Comment: based on unjustified emendation of type genus name; should be *Cylindrinotini*. Type genus: *Cylindrinotus* Faldermann, 1837: 73 (as *Cylindronotus*: unjustified emendation of genus name by Agassiz 1846b).

HELOPININI Lacordaire, 1859

APTILINA Koch, 1958

Aptilina Koch, 1958: 139. Type genus: *Aptila* Fähræus, 1870: 258.

HELOPININA Lacordaire, 1859

Hélopinides Lacordaire, 1859: 457 (291 in key). Comment: name made available under Art. 11.7.2 (Helopininae: Gebien 1911). Type genus: *Helopinus* Solier, 1848: 197 (= *Drosochrus* Erichson, 1843).

Drosochrini Koch, 1958: 133. Comment: unnecessary replacement name for Helopinini. Type genus: *Drosochrus* Erichson, 1843: 243.

MICRANTEREINA Reitter, 1917

Micrantereini Reitter, 1917: 60. Type genus: *Micrantereus* Solier, 1848: 175.

ONCOSOMINA Koch, 1958

Oncosomina Koch, 1958: 134. Comment: based on unjustified emendation of type genus name; spelling of family-group name preserved following Art. 35.4.1. Type genus: *Oncosoma*

Westwood, 1843: 121 (unjustified emendation from *Ogcosoma* by Agassiz, 1846b; emended name in current usage, treated as a justified emendation following Art. 33.2.3.1).

AMARYGMINI Gistel, 1856

Amarygmidae Gistel, 1856: 383. Type genus: *Amarygmus* Dalman, 1823: 60.

Méracanthides Lacordaire, 1859: 464 (291 in key). Comment: name made available under Art. 11.7.2 (Meracanthini: LeConte 1862). Type genus: *Meracantha* Kirby, 1837: 237.

Mégacanthides Lacordaire, 1859: 467 (291 in key). Comment: name made available under Art. 11.7.2 (Megacanthidae: Péringuey 1892). Type genus: *Megacantha* Westwood, 1843: 121.

Megacanthina Ardoïn, 1962: 960. Comment: described as a new without reference to Lacordaire's name; see previous record. Type genus: *Megacantha* Westwood, 1843: 121.

RHYSOPAUSSINI Wasmann, 1896

Rhysopausidae Wasmann, 1896: 613. Type genus: *Rhysopausus* Wasmann, 1896: 616.

CERENOPINI Horn, 1870

Cerenopi Horn, 1870: 325 (323 in key). Type genus: *Cerenopus* LeConte, 1851: 143.

EULABINI Horn, 1870

Eulabes Horn, 1870: 323. Comment: name made available under Art. 11.7.2. Type genus: *Eulabis* Eschscholtz, 1829: 14.

APOCRYPHINI Lacordaire, 1859

Apocryphides Lacordaire, 1859: 432. Comment: name made available under Art. 11.7.2 (Apocryphini: LeConte 1862). Type genus: *Apocrypha* Eschscholtz, 1831: 13.

Diplocyrtini Antoine, 1949: 147. Type genus: *Diplocyrtus* Quedenfeldt, 1887: 257.

SCAURINI Billberg, 1820

Scaurides Billberg, 1820: 31. Comment: name made available under Art. 11.7.2. Type genus: *Scaurus* Fabricius, 1775: 253.

SCOTOBIINI Solier, 1838

Scotobites Solier, 1838: 39. Comment: name made available under Art. 11.7.2 (Scotobiinae: Gebien 1910). Type genus: *Scotobius* Germar, 1824: 135.

Scotobiides: Lacordaire, 1859: 126. Comment: justified emendation of stem. Type genus: *Scotobius* Germar, 1824: 135.

BLAPTINI Leach, 1815

BLAPTINA Leach, 1815

Blapsida Leach, 1815: 101. Type genus: *Blaps* Fabricius, 1775: 254.

Blaptidae: Thomson 1859: 114. Comment: correction of stem. Type genus: *Blaps* Fabricius, 1775: 254.

GNAPTORINA Medvedev, 2001

Gnaptorina Medvedev, 2001: 29. Type genus: *Gnaptor* Brullé, 1833: [401].

- GNAPTORININA Medvedev, 2001
 Gnaptorinina Medvedev, 2001: 31. Type genus: *Gnaptorina* Reitter, 1887: 364.
- PROSODINA Skopin, 1960
 Prosodina Skopin, 1960: 48. Type genus: *Prosodes* Eschscholtz, 1829: 9.
- REMIPEDELLINA Semenov, 1907
 Remipedellini Semenov, 1907: 259 (in key). Type genus: *Remipedella* Semenov, 1907: 257.
- PRAEUGENINI De Moor, 1970
 Praegenini Ferreira, 1963: 312. Comment: unavailable: not accompanied by a description or definition; based on unjustified emendation of type genus name. Based on: *Praeugena* Laporte, 1840: 241 (as *Praogena*: unjustified emendation of genus name by Agassiz 1846b).
 Praeugena De Moor, 1970: 4. Type genus: *Praeugena* Laporte, 1840: 241.
- AMPHIDORINI LeConte, 1862 (= ELEODINI)
 Embaphionides Lacordaire, 1859: 151 (141 in key). Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Embaphion* Say, 1824: 254.
 Amphidora LeConte, 1862: 239. Type genus: *Amphidora* Eschscholtz, 1829: 9.
 Eleodiini Blaisdell, 1909: 1–254. Type genus: *Eleodes* Eschscholtz, 1829: 8.
 [Eleodopsinae] Blaisdell, 1939: 52. Comment: unavailable: family-group name not explicitly mentioned. Based on: *Eleodopsis* Blaisdell, 1939: 52 (= *Eleodes* Eschscholtz, 1829).
 Eleodopsinae Arnett, 1962: 675. Comment: unavailable: published in synonymy. Based on: *Eleodopsis* Blaisdell, 1939: 52 (= *Eleodes* Eschscholtz, 1829).
- PEDININI Eschscholtz, 1829
 DENDARINA Seidlitz, 1889a, b
 Pandarites Mulsant and Rey, 1853: 33. Comment: invalid: based on preoccupied genus name; preoccupied family-group name, not Pandariens Milne Edwards, 1840: Crustacea. Type genus: *Dendarus* Latreille, 1829: 20 (as *Pandarus*: unjustified emendation of genus name by Agassiz, 1846a, b; preoccupied genus name, not *Pandarus* Leach, 1816: Crustacea).
 Héliopathaires Mulsant, 1854: 140, 147. Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Heliopates* Dejean, 1834: 191 (as *Heliopathes*: incorrect subsequent spelling of genus name by Mulsant 1854).
 Héliopathates Mulsant and Rey, 1854: 121 (11 in key). Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Heliopates* Dejean, 1834: 191 (as *Heliopathes*: incorrect subsequent spelling of genus name by Mulsant 1854).
 Micrositates Mulsant and Rey, 1854: 122, 130. Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Micrositus* Mulsant and Rey, 1854: 148.
 Omocratates Mulsant and Rey, 1854: 122, 189. Comment: invalid: based on preoccupied genus name. Type genus: *Omocrates* Mulsant, 1854: 150 (preoccupied genus name, not *Omocrates* Burmeister, 1844: Scarabaeidae; = *Phylan* Dejean, 1821).
 Isocérates Mulsant and Rey, 1854: 13, 44. Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Isocerus* Dejean, 1821: 66 (= *Neoisocerus* **nom. nov.**; gender masculine; preoccupied genus name, not *Isocerus* Illiger, 1802: Cerambycidae).
 Dendarina Seidlitz, 1889a: 127. Type genus: *Dendarus* Latreille, 1829: 20 (this genus is credited to Latreille according to the current usage even though the name *Dendarus* was first validated by Dejean (1821: 65); an application must be sent to the Commission to reject Dejean's name on the ground that its type species is uninterpretable (see Silfverberg 1984)).
 Dendarina Seidlitz, 1889b: 127. Type genus: *Dendarus* Latreille, 1829: 20 (see comment in previous record).
 Bioplanina Reichardt, 1936: 24. Type genus: *Bioplanes* Mulsant, 1854: 144.
- EURYNOTINA Mulsant and Rey, 1854 (= ONCOTINA)
 Eurynotaires / Eurynotates Mulsant and Rey, 1854: 11, 12, 13. Comment: name made available under Art. 11.7.2 (Eurynotina: Medvedev 1968). Type genus: *Eurynotus* Kirby, 1819a: 418.
 Psectropini Kaszab, 1941: 33. Comment: unavailable: based on a misidentified type genus (see Koch (1954a: 8) for additional comments). Based on: *Psectropus* sensu Kaszab, 1941: 35 not *Psectrapus* Solier, 1848: 153 (= *Schyzoschelus* Koch, 1954a).
 Oncotini Koch, 1953b: 267, 274. Type genus: *Oncotus* Blanchard, 1845: 13.
 Psectrapini: Koch, 1954: 8. Comment: justified emendation of stem; unavailable as explained above. Based on: *Psectropus* sensu Kaszab, 1941: 35 (see previous record).
 Schyzoschelina Koch, 1956: 25. Type genus: *Schyzoschelus* Koch, 1954a: 72.
- LEICHENINA Mulsant, 1854
 Leichenaires Mulsant, 1854: 161, 179. Comment: name made available under Art. 11.7.2 (Leichenini: Leng 1920). Type genus: *Leichenum* Dejean, 1834: 174.
 Lichenina: Reitter, 1904: 107, 179. Comment: based on unjustified emendation of type genus name. Type genus: *Leichenum* Dejean, 1834: 174 (as *Lichenum*: unjustified emendation of genus name by Agassiz 1846b).
- LOENSINA Koch, 1956
 Loensini Koch, 1956: 31, 402. Type genus: *Loensus* Lucas, 1920: 380.

MELAMBIINA Mulsant and Rey, 1854 (= LITOBORINA)

Melambiates Mulsant and Rey, 1854: 122, 123. Comment: name made available under Art. 11.7.2 (Melambina: Español 1945). Type genus: *Melambius* Mulsant and Rey, 1854: 124.

Phylacides Lacordaire, 1859: 270 (255 in key). Comment: invalid: name based on preoccupied genus name. Based on: *Phylax* Mulsant, 1854: 148 (preoccupied genus name, not *Phylax* Brullé, 1832; replacement name = *Allophylax* Bedel, 1906).

Litoborinae Antoine, 1941: 19-52. Type genus: *Litoborus* Mulsant and Rey, 1854: 126.

Zadenina Koch, 1956: 279. Type genus: *Zadenos* Laporte, 1840: 210.

Melambiina: Español, 1958: 108. Comment: first use of correct stem. Type genus: *Melambius* Mulsant and Rey, 1854: 124.

PEDININA Eschscholtz, 1829.

Pediniden Eschscholtz, 1829: 4. Comment: name made available under Art. 11.7.2 (Pedinidae: Schaum 1859). Type genus: *Pedinus* Latreille, 1797: 20.

PLATYNOTINA Mulsant and Rey, 1853

Hétéroscélites Solier, 1836: 502. Comment: invalid: based on preoccupied genus name. Type genus: *Heteroscelis* Latreille, 1829: 18 (preoccupied genus name, not *Heteroscelis* Latreille, 1829: Heteroptera; = *Anomalipus* Guérin-Méneville, 1831b).

Platynotaires Mulsant and Rey, 1853: 37, 38. Comment: name made available under Art. 11.7.2 (Platynoti: LeConte 1862). Type genus: *Platynotus* Fabricius, 1801a: 138.

Trigonopaires Mulsant and Rey, 1853: 104 (37 in key). Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Trigonopus* Mulsant and Rey, 1853: 105.

Gonopides Lacordaire, 1859: 255. Comment: name made available under Art. 11.7.2 (Gonopini: Koch 1953a). Type genus: *Gonopus* Latreille, 1829: 17.

Platynotini Koch, 1953b: 268. Comment: described as new without reference to Mulsant and Rey's name; see record above. Type genus: *Platynotus* Fabricius, 1801a: 138.

Anomalipina Koch, 1954b: 427. Type genus: *Anomalipus* Guérin-Méneville, 1831b: plate 29 (unjustified emendation from *Anomalipes* by Lacordaire 1859; emended name in current usage, treated as a justified emendation following Art. 33.2.3.1).

PYTHIOPINA Koch, 1953

Pythiopini Koch, 1953a: 245. Type genus: *Pythiopus* Koch, 1953a: 245.

OPATRINI Brullé, 1832

HETEROICHEIRINA Koch, 1956

Heterocheirini Koch, 1956: 43. Type genus: *Heterocheira* Lacordaire, 1859: 335.

HETEROTARSINA Blanchard, 1845

Hétérotarsites Blanchard, 1845: 14. Comment: name made available under Art. 11.7.2 (Heterotarsini: LeConte 1862). Type genus: *Heterotarsus* Latreille, 1829: 26.

OPATRINA Brullé, 1832

Opatrites Brullé, 1832: 213. Comment: name made available under Art. 11.7.2 (Opatridae: Hope 1840). Type genus: *Opatrum* Fabricius, 1775: 76.

Blapstinites Mulsant and Rey, 1853: 33. Comment: name made available under Art. 11.7.2 (Blapstini: Horn 1870). Type genus: *Blapstinus* Dejean, 1821: 66.

Hopatridae: Gistel, 1856: 382. Comment: based on unjustified emendation of type genus name. Type genus: *Opatrum* Fabricius, 1775: 76 (as *Hopatrum*: unjustified emendation of genus name by Agassiz 1846b).

Stizopides Lacordaire, 1859: 258 (255 in key). Comment: name made available under Art. 11.7.2 (Stizopini: Koch 1953a). Type genus: *Stizopus* Erichson, 1843: 245.

Sclérides Lacordaire, 1859: 263 (255 in key). Comment: name made available under Art. 11.7.2 (Sclerina: Seidlitz 1889a). Type genus: *Scleron* Hope, 1840: 111 **syn. nov.** (= *Sclerum* Dejean, 1834).

Dilamites Jacquelin DuVal, 1861: 279. Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Dilamus* Jacquelin DuVal, 1861: 279.

Stenolamina Koch, 1956: 49. Type genus: *Stenolamus* Gebien, 1920: 107.

Emmallina Koch, 1956: 51. Comment: incorrect original spelling based on unjustified emendation of type genus name. Type genus: *Emmalus* Erichson, 1843: 251 (as *Emmallus*: unjustified emendation of genus name by Agassiz 1846b).

Emmalina: Ferrer 2002: 23. Comment: correction of stem. Type genus: *Emmalus* Erichson, 1843: 251.

PACHYPTERINA Medvedev, 1968

Pachyptérites Jacquelin DuVal, 1861: 278. Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Pachypterus* Lucas, 1846: 325.

Pachypterini Medvedev, 1968: 247. Comment: described as new without reference to Jacquelin DuVal's name; see previous record. Type genus: *Pachypterus* Lucas, 1846: 325.

PLATYSCELIDINI Lacordaire, 1859

Platyscérides Lacordaire, 1859: 229 (228 in key). Comment: name made available under Art. 11.7.2 (Platyscelini: Reitter 1904). Type genus: *Platyscelis* Latreille, 1818: 23.

Platyscelidini: Egorov, 1990: 401. Comment: justified emendation of stem to avoid homonymy with Platyscelidae Bate, 1862: Crustacea.

DISSONOMINI Medvedev, 1968

Dissonomites Jacquelin DuVal, 1861: 280. Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Dissonomus* Jacquelin DuVal, 1861: 280.

Dissonomini Medvedev, 1968: 211. Comment: described as a new without reference to Jacquelin DuVal's name. Type genus: *Dissonomus* Jacquelin DuVal, 1861: 280.

MELANIMINI Seidlitz, 1894 (1854)

Microzoumates Mulsant, 1854: 162, 176. Comment: name made available under Art. 11.7.2 (Microzoina: Seidlitz 1889a). Comment: oldest name for tribe name; younger name in current usage preserved. Type genus: *Microzoum* Dejean, 1834: 193 (= *Melanimon* Steven, 1829).

Microzoites: Jacquelin DuVal, 1861: 284. Comment: correction of stem. Type genus: *Microzoum* Dejean, 1834: 193 (= *Melanimon* Steven, 1829).

Melanimonina Seidlitz, 1894: 449. Comment: use of family-group name preserved following Art. 40.2; incorrect original spelling. Type genus: *Melanimon* Steven, 1829: 98.

Melanimini: Koch, 1956: 34. Comment: first use of correct spelling. Type genus: *Melanimon* Steven, 1829: 98.

ALLECULINAE Laporte, 1840. Comment: Alleculinae given precedence for subfamily name following Art. 35.5; see note under Xystropodina, Cteniopodini.

ALLECULINI Laporte, 1840. Comment: Alleculini given precedence for tribe name following Art. 35.5; see note under Xystropodina.

ALLECULINA Laporte, 1840

Alléculites Laporte, 1840: 242. Comment: name made available under Art. 11.7.2 (Alleculidae: Heyden 1880). Type genus: *Allecula* Fabricius, 1801b: 21.

Cylindrothorides Lacordaire, 1859: 494. Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Cylindrothorus* Solier, 1843: 50.

Upinellae LeConte, 1866a: 137. Comment: type genus implied, not cited by name. Type genus: *Upinella* Mulsant, 1856: 17 (= *Allecula* Fabricius, 1801).

GONODERINA Seidlitz, 1896

Gonoderina Seidlitz, 1896b: 29, 83. Type genus: *Gonodera* Mulsant, 1856: 41.

MYCETOCHARINA Mulsant, 1856 / Gistel, 1856

Mycétocharaires Mulsant, 1856: 15. Type genus: *Mycetochara* Berthold, 1827: 371 (as *Mycetochara* Latreille, 1829 (= *Mycetochara* Berthold, 1827)).

Mycetocharidae Gistel, 1856: 383. Type genus: *Mycetochara* Berthold, 1827: 371 (as *Mycetocharis* Gyllenhal, 1827 (= *Mycetochara* Berthold, 1827)).

XYSTROPODINA Solier, 1835 (= **LYSTRONYCHINA**)

Xystropides Solier, 1835a: 229. Comment: name made available under Art. 11.7.2 (Xystropidae:

Blackwelder 1945); Alleculinae Laporte, 1840 and Alleculini Laporte, 1840 given precedence for subfamily and tribe names following Art. 35.5. Type genus: *Xystropus* Solier, 1835a: 241.

Lystronychides Lacordaire, 1859: 512 (in key).

Comment: name made available under Art. 11.7.2 (Lystronychidi: LeConte and Horn 1883). Type genus: *Lystronychus* Latreille, 1829: 41 (incorrect subsequent spelling from *Lystronichus* by Perty (1832: 63); incorrect subsequent spelling in current usage, treated as correct original spelling following Art. 33.3.1).

Xystropodinae: Lawrence and Newton, 1995: 893.

Comment: correction of stem. Type genus: *Xystropus* Solier, 1835a: 241.

CTENIOPODINI Solier, 1835

Cisteleniae Latreille, 1802: 188. Comment: invalid: based on preoccupied genus name. Type genus: *Cistela* Fabricius, 1775: 116 (preoccupied genus name, not *Cistela* Geoffroy, 1762: Byrrhidae [Geoffroy's genus name, as validated by Forster (1770), was suppressed for the purposes of the Principle of Priority but not for the Principle of Homonymy (ICZN, 1994: 60); = *Cteniopus* Solier, 1835a).

Cténioptes Solier, 1835a: 245. Comment: name made available under Art. 11.7.2 (Cteniopi: LeConte and Horn 1883); Alleculinae Laporte, 1840 given precedence for subfamily name following Art. 35.5. Type genus: *Cteniopus* Solier, 1835a: 246.

Omophliens Mulsant, 1856: 14, 65. Comment: name made available under Art. 11.7.2 (Omophliini: Seidlitz 1896b). Type genus: *Omophlus* Dejean, 1834: 213.

Petriidae Semenov, 1893b: 359. Type genus: *Petria* Semenov, 1893b: 363.

Cteniopodinae: Lawrence and Newton 1995: 893. Comment: correction of stem. Type genus: *Cteniopus* Solier, 1835a: 246.

DIAPERINAE Latreille, 1802**DIAPERINI** Latreille, 1802**ADELININA** LeConte, 1862

Sitophagiens Mulsant, 1854: 263. Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Sitophagus* Mulsant, 1854: 264.

Gnathocérites Jacquelin DuVal, 1861: 304. Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Gnatocerus* Thunberg, 1814: 47 (as *Gnathocerus*: incorrect subsequent spelling by Agassiz, 1846a).

Adelinini LeConte, 1862: 237. Type genus: *Adelina* Dejean, 1835: 315.

Schedarosini Reitter, 1876: 42. Comment: originally placed in the family Cucujidae. Type genus: *Schedarosus* Reitter, 1876: 42 (= *Adelina* Dejean, 1835).

Doliemini Reitter, 1917: 58. Type genus: *Doliema* Pascoe, 1860: 50 (= *Adelina* Dejean, 1835).

Gnathocerini Skopin, 1978: 228. Comment: proposed without reference to Jacquelin DuVal's name; see record above. Type genus: *Gnathocerus* Thunberg, 1814: 47 (as *Gnathocerus*: incorrect subsequent spelling by Agassiz 1846a).

DIAPERINA Latreille, 1802

Diaperialae Latreille, 1802: 161. Type genus: *Diaperis* Geoffroy, 1762: 337 (genus placed on the Official List of Generic Names in Zoology (ICZN, 1994)).

Pentaphyllaires Mulsant, 1854: 196. Comment: name made available under Art. 11.7.2 (Pentaphylli: LeConte 1862). Type genus: *Pentaphyllus* Dejean, 1821: 68.

Platydeminae / Platydemini Reitter, 1917: 61. Type genus: *Platydema* Laporte and Brullé, 1831: 350 (332 in key).

Hoplocephalini Kwieton, 1982: 98. Comment: unavailable: not accompanied by a description or definition; based on unjustified emendation of type genus name. Based on: *Hoplocephala* Laporte and Brullé, 1831: 338 (332 in key) (unjustified emendation from *Oplocephala* by Agassiz 1846b; emended name in current usage, treated as a justified emendation following Art. 33.2.3.1; = *Neomida* Latreille, 1829).

HYOCIIINI Medvedev and Lawrence, 1982

BRITTONINA Medvedev and Lawrence, 1986

Brittonina Medvedev and Lawrence, 1986: 574. Type genus: *Brittona* Medvedev and Lawrence, 1986: 574.

HYOCIIINA Medvedev and Lawrence, 1982

Hyocini Medvedev and Lawrence, 1982: 548. Comment: based on incorrectly formed stem. Type genus: *Hyocis* Pascoe, 1866: 457.

Hyociini: Doyen, Matthews and Lawrence 1990: 236. Comment: first use of correct stem. Type genus: *Hyocis* Pascoe, 1866: 457.

UPTONINA Medvedev and Lawrence, 1986

Uptonina Medvedev and Lawrence, 1986: 581. Type genus: *Uptona* Medvedev and Lawrence, 1986: 582.

ECTYCHINI Doyen, Matthews and Lawrence, 1990

Ectychini Doyen, Matthews and Lawrence, 1990: 236, 247. Type genus: *Ectyche* Pascoe, 1869: 143.

CRYPTICINI Brullé, 1832

Crypticites Brullé, 1832: 219. Comment: name made available under Art. 11.7.2 (Crypticina: Thomson 1859). Type genus: *Crypticus* Latreille, 1817: 298.

PHALERIINI Blanchard, 1845

Phalériides Blanchard, 1845: 29. Comment: name made available under Art. 11.7.2 (Phaleriini: LeConte 1862). Type genus: *Phaleria* Latreille, 1802: 162.

Sepedonastidae Gistel, 1856: 382. Type genus: *Sepedonastes* Gistel, 1856: 382 **syn. nov.** (= *Phaleria* Latreille, 1802).

Cataphronetini Reitter, 1917: 57. Type genus: *Cataphronetis* Lucas, 1846: 342 (= *Phtora* Germar, 1836).

TRACHYSCELINI Blanchard, 1845

Trachyscérides Blanchard, 1845: 28. Comment: name made available under Art. 11.7.2 (Trachyscelidae: Schaum 1859). Type genus: *Trachyscelis* Latreille, 1809: 379.

Lachnodactylina Reitter, 1904: 182. Comment: transferred from Lachnogyini to Trachyscelini by Ferrer and Yvenc (2004: 42). Type genus: *Lachnodactylus* Seidlitz, 1898: 838 (as replacement name for *Lachnopus* Seidlitz, 1894, not Schoenherr 1840b: Curculionidae)

MYRMECHIXENINI Jacquelin DuVal, 1858

Myrméchixénites Jacquelin DuVal, 1858: 223. Comment: name made available under Art. 11.7.2 (Myrmexixeni: LeConte and Horn 1883); originally placed in the family Mycetaeidae (= Endomychidae). Type genus: *Myrmexixenus* Chevrolat, 1835: 267.

Myrmecoxenina: Thomson 1863: 131. Comment: based on unjustified emendation of type genus name. Type genus: *Myrmexixenus* Chevrolat, 1835: 267 (as *Myrmecoxenus*: unjustified emendation of genus name by Agassiz 1846b).

HYPOPHLAEINI Billberg, 1820

Hypophlaeides Billberg, 1820: 33. Comment: Hypophlaeini used by Silfverberg 1979, 1992. Type genus: *Hypophlaeus* Fabricius, 1790: 222 (= *Corticeus* Piller and Mitterpacher, 1783).

Hypophloeidae: LeConte 1866b: 63. Comment: based on incorrect subsequent spelling of type genus name. Type genus: *Hypophlaeus* Fabricius, 1790: 222 (as *Hypophloeus*: incorrect subsequent spelling by Billberg 1820: 34; = *Corticeus* Piller and Mitterpacher, 1783).

GNATHIDIINI Gebien, 1921

ANOPIDIINA Jeannel and Paulian, 1945

Anopidiini Jeannel and Paulian, 1945: 62. Comment: originally placed in the family Colydiidae. Type genus: *Anopidium* Jeannel and Paulian, 1945: 63.

GNATHIDIINA Gebien, 1921

Gnathidiinae Gebien, 1921: 41. Type genus: *Gnathidium* Gebien, 1921: 41.

SCAPHIDEMINI Reitter, 1922

Scaphidemini Reitter, 1922: 2. Type genus: *Scaphidema* Redtenbacher, 1849: 591.

LEIOCHRININI Lewis, 1894

Leiochrinae Lewis, 1894: 390. Type genus: *Leiochrinus* Westwood, 1883: 68.

STENOCHIINAE Kirby, 1837 (= COELOMETOPINAE)

CNODALONINI Gistel, 1856 (= COELOMETOPINI)
Cnodalidae Gistel, 1856: 382. Type genus: *Cnodalon* Latreille, 1797: 23.

Coelométopides Lacordaire, 1859: 291, 358. Type genus: *Coelometopus* Solier, 1848: 278.

Coelometopidae Schaum, 1859: 71. Type genus: *Coelometopus* Solier, 1848: 278.

Catapiestides Lacordaire, 1859: 367, 381. Comment: name made available under Art. 11.7.2 (Catapiestina: Seidlitz 1896a). Type genus: *Catapiestus* Perty, 1831: xxxviii.

Eutelides Lacordaire, 1859: 291, 354. Comment: invalid: based on preoccupied genus name. Type genus: *Eutelus* Solier, 1843: 56 (preoccupied genus name, not *Eutelus* Walker, 1834: Hymenoptera; = *Nodotelus* Koch, 1950a).

Upidae Thomson, 1859: 116. Type genus: *Upis* Fabricius, 1793: 515.

Misolampides Lacordaire, 1859: 432, 440. Comment: name made available under Art. 11.7.2 (Misolampinae / Misolampini: Reitter 1917). Type genus: *Misolampus* Latreille, 1807: 160.

Camarides Chenu and Desmarest, 1860: 165. Comment: unavailable: name not made available under Art. 11.7.2. Based on: *Camaria* Audinet-Serville, 1828: 454.

Polypleuri LeConte, 1862: 229. Type genus: *Polypleurus* Eschscholtz, 1831: 11.

Cnodaloniden: Kraatz 1880: 97–120. Comment: incorrect subsequent spelling of family-group name; spelling in current usage, preserved following Art. 29.5. Type genus: *Cnodalon* Latreille, 1797: 23.

Misolampidiini Reitter, 1917: 60, 65. Type genus: *Misolampidius* Solsky, 1876: 292.

Camariinen Gebien, 1919: 25–26. Type genus: *Camaria* Audinet-Serville, 1828: 454.

Menephilini Reitter, 1920: 15. Type genus: *Menephilus* Mulsant, 1854: 291.

Hegemonini Reitter, 1922: 3. Type genus: *Hegemona* Laporte, 1840: 230.

Stenophanini Reitter, 1922: 2, 3. Type genus: *Stenophanes* Solsky, 1876: 294.

Nodotelini Koch, 1950a: 67. Comment: as replacement name for Eutelini. Type genus: *Nodotelus* Koch, 1950a: 67 (as replacement name for *Eutelus* Solier, 1843, not Walker 1834: Hymenoptera).

Thesileini Kaszab, 1982: 29. Comment: unavailable: not accompanied by a description or definition. Based on: *Thesilea* Haag-Rutenberg, 1878: 103.

STENOCHIINI Kirby, 1837 (= STRONGYLIINI)

Stenochiidae Kirby, 1837: 238. Comment: incorrect original spelling. Type genus: *Stenochia* Kirby, 1819a: 423 (= *Strongylium* Kirby, 1819a).

Strongyliides Lacordaire, 1859: 291, 478. Comment: name made available under Art. 11.7.2 (Strongyliini: LeConte 1862). Type genus: *Strongylium* Kirby, 1819a: 417 **nom. protectum** (genus name given precedence over *Strongylium* Ditmar, 1809: Protozoa **nom. oblitum** following Art. 23.9 (see supporting references in Appendix 2)).

Stenochiinae: Lawrence and Newton 1995: 894. Comment: correction of stem. Type genus: *Stenochia* Kirby, 1819a: 423 (= *Strongylium* Kirby, 1819a).

TALANINI Champion, 1887 (1883). Comment: use of family-group name preserved following Art. 40.2.

Dignamptini LeConte and Horn, 1883: 385. Type genus: *Dignamptus* LeConte, 1878: 421 (= *Talanus* Jacquelin DuVal, 1856).

Talanides Champion, 1887: 321. Comment: name made available under Art. 11.7.2 (Talaninae: Gebien 1911). Type genus: *Talanus* Jacquelin DuVal, 1856: 66.

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Summary of family-group name changes required in Tenebrionidae. Names are listed in the order they appear in the catalogue.

From:	To:	Reason	Action
LAGRIINAE			
Lagriinae Latreille, 1825	Lachninae Billberg, 1820	Priority	Younger name preserved following Art. 40.2
Lagriini Latreille, 1825	Lachnini Billberg, 1820	Priority	Younger name preserved following Art. 40.2
Lagriina Latreille, 1825	Lachnina Billberg, 1820	Priority	Younger name preserved following Art. 40.2
Pycnocerini Lacordaire, 1859	Chirosclini Hope, 1840 / Laporte, 1840	Priority	Younger name preserved following Art. 23.9; see supporting references in Appendix 1
Lagriinae Latreille, 1825	Cossyphinae Latreille, 1802	Priority	Younger name preserved following Art. 35.5; inclusion of Cossyphini in this subfamily tentative
PIMELIINAE			
Stenosini Lacordaire, 1859 / Schaum, 1859	Tageniini Solier, 1834	Priority	Younger name preserved following Art. 40.2
Eurychorini Solier, 1837	Adelostomini Solier, 1834	Priority	Change implemented in this paper
Molurini Solier, 1834	Sepidiini Eschscholtz, 1829	Priority	Change implemented in this paper
Cryptoglossini LeConte, 1862	Centriopterini Lacordaire, 1859	Priority	Change implemented in this paper
Physogasterini Lacordaire, 1859	Physogastrini Lacordaire, 1859	Correction of stem	Original spelling preserved following Art. 29.5
Eurymetopini Casey, 1907	Edrotini Lacordaire, 1859	Priority	Change implemented in this paper
Adesmiini Lacordaire, 1859	Macropodini Solier, 1835	Priority	No change, older name proposed in vernacular form and not subsequently Latinized
TENEBRIONINAE			
Dysantina Gebien, 1922	Eudysantina nom. nov.	Name based on preoccupied genus name	Change implemented in this paper
Eleodini Blaisdell, 1909	Embaphionini Lacordaire, 1859	Priority	No change, older name proposed in vernacular form and not subsequently Latinized
Eleodini Blaisdell, 1909	Amphidorini LeConte, 1862	Priority	Change implemented in this paper
Dendarina Seidlitz, 1889	Heliopathina Mulsant, 1854 / Mulsant and Rey, 1854	Priority	No change, older name proposed in vernacular form and not subsequently Latinized
Dendarina Seidlitz, 1889	Micrositina Mulsant and Rey, 1854	Priority	No change, older name proposed in vernacular form and not subsequently Latinized
Litoborina Antoine, 1941	Melambiina Mulsant and Rey, 1854	Priority	Change implemented in this paper
Oncotina Koch, 1953	Eurynotina Mulsant and Rey, 1854	Priority	Change implemented in this paper
Melanimini Seidlitz, 1894	Microzoini Mulsant, 1854	Priority	Younger name preserved following Art. 40.2
ALLECULINAE			
Alleculinae Laporte, 1840	Xystropodinae / Cteniopodinae Solier, 1835	Priority	Younger name preserved following Art. 35.5
Alleculini Laporte, 1840	Xystropodini Solier, 1835	Priority	Younger name preserved following Art. 35.5
Lystronychina Lacordaire, 1859	Xystropodina Solier, 1835	Priority	Change implemented in this paper
DIAPERINAE			
Adelinina LeConte, 1862	Sitophagina Mulsant, 1854	Priority	No change, older name proposed in vernacular form and not subsequently Latinized
Adelinina LeConte, 1862	Gnathocerina Jacquelin DuVal, 1861	Priority	No change, older name proposed in vernacular form and not subsequently Latinized
STENOCHIINAE			
Coelometopinae Lacordaire, 1859 / Schaum, 1859	Stenochiinae Kirby, 1837	Priority	Change implemented in this paper
Coelometopini Lacordaire, 1859 / Schaum, 1859	Cnodalonini Gistel, 1856	Priority	Change implemented in this paper
Cnodalonini Gistel, 1856	Cnodalini Gistel, 1856	Correct original spelling of family-group name	Subsequent spelling in current usage, preserved following Art. 29.5
Strongyliini Lacordaire, 1859	Stenochiini Kirby, 1837	Priority	Change implemented in this paper
Talanini Champion, 1887	Dignamptini LeConte and Horn, 1883	Priority	Younger name preserved following Art. 40.2

Appendix 1. Supporting references for the preservation of Pycnocerini Lacordaire, 1859 over Chiroscelini Hope, 1840 / Laporte, 1840 under Art. 23.9. The tribe name Chiroscelini has not been used as valid after 1899 to our knowledge.

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