

RESEARCH PAPER

## Review of the genus-level names proposed by Johannes Gistel in Chrysomelidae (Coleoptera)

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**Abstract.** The genus-level names proposed by Johannes Gistel in Chrysomelidae are reviewed. The genus *Chloemela* Gistel, 1856 is designated as a nomen oblitum for *Chrysolina* Motschulsky, 1860 (nomen protectum), and *Alitene* Gistel, 1856 is designated as a nomen oblitum for *Neophaedon* Jacobson, 1901 (nomen protectum). The following new synonymies are established: Donaciinae: *Macrophea* Samouelle, 1819 = *Calamobia* Gistel, 1856 syn. nov.; Criocerinae: *Crioceris* Geoffroy, 1762 = *Anthurga* Gistel, 1848 syn. nov.; Cassidinae: *Hybosa* Chevrolat, 1842 = *Axis* Gistel, 1848 syn. nov.; *Botanochara* Dejean, 1836 = *Epichorrestes* Gistel, 1848 syn. nov.; *Notosacantha* Chevrolat, 1836 = *Festa* Gistel, 1848 syn. nov.; *Omocerus* Chevrolat, 1836 = *Homocera* Gistel, 1848 syn. nov.; *Basiprionota* Chevrolat, 1836 = *Monax* Gistel, 1848 syn. nov.; *Metazycera* Chevrolat, 1836 = *Scotias* Gistel, 1848 syn. nov.; Cryptocephalinae: *Disopus* Chevrolat, 1836 = *Disops* Gistel, 1856 syn. nov.; *Pachybrachis* Chevrolat, 1836 = *Pachybrachia* Gistel, 1856 syn. nov.; *Lachnaia* Chevrolat, 1836 = *Vervex* Gistel, 1848 syn. nov. = *Bucedestes* Gistel, 1856 syn. nov.; *Coptocephala* Chevrolat, 1836 = *Ecphorastes* Gistel, 1856 syn. nov.; *Labidostomis* Chevrolat, 1836 = *Labidostomus* Gistel, 1848 syn. nov.; Eumolpinae: *Bromius* Chevrolat, 1836 = *Chartonia* Gistel, 1856 syn. nov.; *Pachnephorus* Chevrolat, 1836 = *Euchthonius* Gistel, 1856 syn. nov.; *Metaxyonycha* Chevrolat, 1836 = *Herostrates* Gistel, 1848 syn. nov.; *Guyanica* Chevrolat, 1836 = *Lestivina* Gistel, 1848 syn. nov.; *Typophorus* Chevrolat, 1836 = *Polisma* Gistel, 1848 syn. nov.; Lamprosomatinae: *Oomorplus* Curtis, 1831 = *Laophilus* Gistel, 1856 syn. nov.; *Lamprosoma* Kirby, 1819 = *Phenareta* Gistel, 1848 syn. nov.; Chrysomelinae: *Chrysomela* Linnaeus, 1758 = *Ernobia* Gistel, 1856 syn. nov.; *Leucocera* Chevrolat, 1836 = *Foliana* Gistel, 1848 syn. nov.; *Gastrophysa* Chevrolat, 1836 = *Gasterophysia* Gistel, 1856 syn. nov.; *Gonioctena* Chevrolat, 1836 = *Goniactis* Gistel, 1856 syn. nov.; *Phaedon* Latreille, 1829 = *Poebia* Gistel, 1856 syn. nov.; *Strichosa* Chevrolat, 1843 = *Harpax* Gistel, 1848 syn. nov.; Galerucinae: *Podagrica* Chevrolat, 1836 = *Geochoreutes* Gistel, 1856 syn. nov.; *Oedionychis* Latreille, 1829 = *Haplosonyx* Gistel, 1848 syn. nov.; *Altica* Geoffroy, 1762 = *Pantryptes* Gistel, 1856 syn. nov.; *Psylliodes* Latreille, 1829 = *Psyllides* Gistel, 1856 syn. nov.; *Acrocrypta* Baly, 1862 = *Pusio* Gistel, 1848 syn. nov.; *Sphaeroderma* Stephens, 1831 = *Sphaerodermus* Gistel, 1856 syn. nov.; *Oides* Weber, 1801 = *Eparchista* Gistel, 1848 syn. nov.; and *Agelastica* Chevrolat, 1836 = *Scholastica* Gistel, 1848 syn. nov. The authorship of *Elytrosphaera* is discussed and the genus is attributed to Blanchard, 1845. *Comisteisa* Gistel, 1848 is confirmed as a synonym of *Elytrosphaera*. Type species are designated for *Anthurga* Gistel, 1848, *Chartonia* Gistel, 1856, *Alitene* Gistel, 1856, *Chloemela* Gistel, 1856, *Ernobia* Gistel, 1856, *Geochoreutes* Gistel, 1856, and *Pantryptes* Gistel, 1856. Unavailable genus names introduced by Gistel are listed and commented on. Publication dates of some Gistel's publications are discussed and specified.

**Key words.** Coleoptera, Chrysomelidae, taxonomy, nomenclature, Johannes Gistel, genus-group names, new synonymy, nomen oblitum, nomen protectum

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## Introduction

Johannes Nepomuk Franz Xaver Gistel (1809–1873) was a German naturalist, professor of natural history and geography, librarian secretary and curator at the Museum of Natural History in Regensburg (BOUSQUET 2016). He was an extremely controversial person, mostly forgotten by history, ignored or shunned by his contemporaries, being described as vain, boastful, sensation-craving, superficial and imprecise, and claimed by others to be a cheat and a liar. He also used the spelling ‘Gistl’ and pseudonyms ‘Garduus’ or ‘G. Tilesius’ (anagram of Gistelius). Gistel was an incredibly prolific writer and poet, and wrote on a variety of subjects, including biographies, politics, history, general zoology, physiology, anatomy, mammalogy, ornithology, and herpetology, although entomology (especially Coleoptera) was his main interest (EVENHUIS 2016). The most comprehensive list of Gistel’s publications was given by STRAND (1919).

For a long time, the best known Gistel’s entomological paper was *Achthundert und zwanzig neue oder unbeschriebene wirbellose Thiere* (GISTEL 1857b,c), discussed in detail by STRAND (1917). Other Gistel’s papers and books were more or less forgotten or ignored for many decades and only step by step reintroduced to the taxonomists during the 20<sup>th</sup> century. However, the taxonomical knowledge about the taxa he proposed and his publications varies greatly according to insect groups. Recently, comprehensive papers dealing with Gistel’s taxa were published for example for Apoidea (BAKER 1997), Kateretidae, Nitidulidae and Monotomidae (JELÍNEK & AUDISIO 2009), Cantharidae, Lampyridae and Lycidae (FANTI 2018). Family- and genus-group taxa were also catalogued correctly for example in the first part of the world catalogue of the genus names in Elateridae (KUNDRATA et al. 2019).

In Chrysomelidae, the family group names introduced by Gistel were assessed by BOUCHARD et al. (2011). Almost all species group and some genus group nominal taxa proposed by Gistel were assessed by MONRÓS & BECHYNÉ (1956) but some of his publications were evidently unknown to them. They also mismatched some of his other publications. In many entries they used the reference ‘Gistl, 1837: 401-404’ what in fact refers to GISTEL (1848a) and not to GISTEL (1837) publication *Systema Insectorum...* as they listed in the references.

Generally, the taxa of Chrysomelidae proposed in GISTEL (1848c, 1856a) are completely omitted in the literature. Surprisingly, the taxa from the main text part of GISTEL (1848b) are frequently cited in chrysomelid literature while those mentioned in the introductory pages v–xvi can be found only exceptionally (e.g. in RILEY et al. 2013).

### Comments on Gistel’s publications containing new genus group nominal taxa in Chrysomelidae

*Die Insecten-Doubletten aus der Sammlung des Herrn Grafen Rudolph von Jenison Walworth* (GISTEL 1934) is a list of duplicate beetles in the collection of Count

Rudolph von Jenison Walworth offered for purchase or exchange. All newly proposed species names in this work are nomina nuda, while genus names are available whenever accompanied by an available species name. All the genus names were nomenclaturally assessed by BOUSQUET & BOUCHARD (2017).

*Handbuch der Naturgeschichte aller drei Reiche, für Lehrer und Lernende, für Schule und Haus* (GISTEL 1848a) consists of *Abtheilung I. Thierreich* (pp. 1–626, by J. Gistel) and *Abtheilung II. Pflanzen- und Mineralreich* (pp. 627–1037, by T. Bromme). There are several mysteries concerning the publication of this book.

The *Handbuch* was published in six issues (‘Lieferungen’) during years 1848–1849 (EVENHUIS 1997); however, no issues with the original wrappers or exact publication dates are known to me. The available copies are single bound and dated 1850. Very probably the issues were bounded as a single book in 1850 and provided with a new title page. Alternatively, the book was printed completely again when all parts had been finished.

The exact publication dates of *Thierreich* issues were summarized by BOUSQUET & BOUCHARD (2017) with the earliest dates as follows: 1: (pp. 1–160 + 8 pls) 21.iii.1848; 2–3: (pp. 161–480 + 16 pls) 20.vii.1848; 4: (pp. 481–640 + 8 pls) [31].vii.1848. However, I found earlier dates for the first three issues. The issue 1 was already mentioned in *Wochenblatt der Stadt Nördlingen* No 9 from 29.ii.1848 (available from Google Books). Issues 2–3 were mentioned in Heft V: [2] of *Isis von Oken* (also available from Google Books) published on [31].v.1848.

SHERBORN (1925, 1932) stated that the book was published in the period ‘? 1847–1849’. Therefore, some authors (e.g. MENKE 1976, ZOIA 2014) considered the taxa published in 1847; however, so far there is no exact evidence for that. The earliest confirmed date is 29.ii.1848 for the first issue.

The content of *Handbuch* is exactly the same (only converted to different publishing format) as in GISTEL (1848b). The names of insects proposed by GISTEL (1848a) in issues 2–3 were published on [31].v.1848 and have the priority over the same names from GISTEL (1848b) published on [31].vi.1848. The only exceptions are the names proposed in the ‘Schluss’ part (pp. 619–626) in issue 4 (published on [31].vii.1848) of GISTEL (1848a). For these names the priority is given to GISTEL (1848b) published in June 1848.

*Naturgeschichte des Thierreichs* (GISTEL 1848b). The content of *Naturgeschichte des Thierreichs* is exactly the same as in *Handbuch* (GISTEL 1848a) except for introductory pages v–xvi being not published in *Handbuch*. The earliest known publication date is [31].vii.1848 (see BOUSQUET & BOUCHARD 2017). The introductory pages contain large number of new replacement names across all the animals. The insect taxa and names proposed in the main text part are duplicates of those published in *Handbuch* (GISTEL 1848a). Only the taxa and names given in the ‘Schluss’ part (pp. 189–191) have the priority over *Handbuch* (GISTEL 1848a) – see the comments above.

The second edition (*Zweite Auflage*) of this book was published two years later (GISTEL 1851).

***Faunula monacensis cantharologica*** (GISTEL 1848c) was published as a series of unpaginated pages supplemented to issues 6 to 11 of *Isis von Oken* in 1848. Species names given there are nomina nuda, while genus names are available whenever accompanied by an available species name.

***Die Mysterien der europäischen Insectenwelt*** (GISTEL 1856a) is a compilation of various Gistel's contributions. The chapter *Pandora Monacensis, sive Synopsis coleopterorum circa Bavariae urbem Monachium indigenorum, secundum systema novum, adscriptis generum specierumque synonymis etc., indicibus duplicatis etc.* (pp. 353–390) contains many new genus-level names indicated with asterisk. There is an explicit statement that genera with asterisk are proposed as new ('asterisci genera nova indicant') in the chapter *Index generum opusculi* (pp. 404–411).

### Synopsis of the genus-group names proposed by Johannes Gistel in Chrysomelidae

#### Bruchinae

##### *Pedapholus* Gistel, 1848

*Pedapholus* Gistel, 1848b: xi; GISTEL (1851): xi.

**Current status.** Junior objective synonym of *Caryedes* Hummel, 1827 (see BOROWIEC 1987, UDAYGIRI & WADHI 1989).

**Comments.** *Pedapholus* Gistel, 1848 was proposed as a new replacement name for *Pachymerus* Schönherr, 1833 (not Thunberg, 1805) (GISTEL 1848b).

##### *Spermatophagus* Gistel, 1856

*Spermatophagus* Gistel, 1856a: 375.

**Current status.** Junior objective synonym of *Spermophagus* Schönherr, 1833 (see BOROWIEC 1987, 1991; UDAYGIRI & WADHI 1989).

**Comments.** *Spermatophagus* Gistel, 1856 was proposed as an unjustified emendation of *Spermophagus* Schönherr, 1833 (GISTEL 1856).

#### Donaciinae

##### *Calamobia* Gistel, 1856, syn. nov.

*Calamobia* Gistel, 1856a: 378.

**Type species.** *Donacia equiseti* Fabricius, 1798, by monotypy.

**Current status.** New junior synonym of *Macrolepa* Samouelle, 1819.

**Comments.** The name is available based on Article 12.2.5 (ICZN 1999). GISTEL (1856a) originally included only a single species-group name: 'equiseti', which applies to *Donacia equiseti* Fabricius, 1798, currently a junior synonym of *Macrolepa appendiculata* (Panzer, 1794). Therefore, the name *Calamobia* is available and represents a new junior synonym of *Macrolepa*.

##### *Donacocia* Gistel, 1856

*Donacocia* Gistel, 1856a: 377.

**Type species.** *Donacia brevicornis* Ahrens, 1810, designated by LÖBL & SILFVERBERG (2010).

**Current status.** Valid subgenus of *Donacia* Fabricius, 1775 (KIPPENBERG 2015).

**Comments.** For a long time *Donacocia* was credited to GISTEL (1857b,c) with a single included species, *Donacocia aenea* Gistel, 1857, considered thus the type species (MONRÓS & BECHYNÉ 1956, JOLIVET 1970, SEENO & WILCOX 1982). ASKEVOLD (1990, 1991) placed *Donacocia* in synonymy with *Plateumaris* C. G. Thomson, 1859 (see also RILEY et al. 2003: 187). LÖBL & SILFVERBERG (2010) found that *Donacocia* was described already in 1856 (GISTEL 1856a), designated *Donacia brevicornis* as the type species and re-established the synonymy of *Donacocia* with *Donacia*. Recently, KIPPENBERG (2015) re-arranged the subgeneric system of *Donacia* and used *Donacocia* as a valid subgenus.

#### Criocerinae

##### *Anthurga* Gistel, 1848, syn. nov.

*Anthurga* Gistel, 1848c: [9]; GISTEL (1856a): 378.

##### Originally included names:

1. *asparagi* Lin. = *Chrysomela asparagi* Linnaeus, 1758; now *Crioceris asparagi* (Linnaeus, 1758); genus *Crioceris* Geoffroy, 1762 (Criocerinae)
2. *campestris* Lin. = *Chrysomela campestris* Linnaeus, 1758; synonym of *Crioceris asparagi* (Linnaeus, 1758); genus *Crioceris* Geoffroy, 1762 (Criocerinae)
3. *melanopa* Lin. = *Chrysomela melanopus* Linnaeus, 1758; now *Oulema melanopus* (Linnaeus, 1758); genus *Oulema* Des Gozis, 1886 (Criocerinae)
4. *cyanella* Lin. = *Chrysomela cyanella* Linnaeus, 1758; now *Lema cyanella* (Linnaeus, 1758); genus *Lema* Fabricius, 1798 (Criocerinae)
5. *atra* Gist. nomen nudum, unavailable.

**Type species.** *Chrysomela asparagi* Linnaeus, 1758, by present designation.

**Current status.** New junior objective synonym of *Crioceris* Geoffroy, 1762.

**Comments.** The name is available based on Article 12.2.5 (ICZN 1999). The name *Anthurga* Gistel, 1848 was completely forgotten. All four available names originally included by GISTEL (1948c) are classified in Criocerinae. Since the type species was never designated, I select *Chrysomela asparagi* Linnaeus, 1758 as the type species. Consequently, *Anthurga* Gistel, 1848 becomes a new junior objective synonym of *Crioceris* Geoffroy, 1762.

#### Cassidinae

##### *Axis* Gistel, 1848, syn. nov.

*Axis* Gistel, 1848b: xi; GISTEL (1851): xi.

**Current status.** New junior objective synonym of *Hybosa* Chevrolat, 1842.

**Comments.** *Axis* Gistel, 1848 was proposed as an unnecessary new replacement name for *Hybosa* Chevrolat, 1842 (GISTEL 1848b). It is also a junior primary homonym of *Axis* Smith, 1827 in Mammalia.

***Epichorestes* Gistel, 1848, syn. nov.**

*Epichorestes* Gistel, 1848b: xi; GISTEL (1851): xi.

**Current status.** New junior objective synonym of *Botanochara* Dejean, 1836.

**Comments.** *Epichorestes* Gistel, 1848 was proposed as an unnecessary new replacement name for *Botanochara* Dejean, 1836 (GISTEL 1856).

***Eurypedus* Gistel, 1834**

*Eurypedus* Gistel, 1834: 31.

**Type species.** *Cassida oblonga* Thon, 1826 (= *E. peltoidea* (Boheman, 1854)) by monotypy.

**Current status.** Valid genus name (see SEENO & WILCOX 1982, BOROWIEC 1999, SHIN 2016, BOUSQUET & BOUCHARD 2017, SEKERKA 2016).

***Festa* Gistel, 1848, syn. nov.**

*Festa* Gistel, 1848b: xi; GISTEL (1851): xi.

**Current status.** New junior objective synonym of *Notosacantha* Chevrolat, 1836.

**Comments.** *Festa* Gistel, 1848 was proposed as an unnecessary new replacement name for *Notosacantha* Chevrolat, 1836 (GISTEL 1848b).

***Homocera* Gistel, 1848, syn. nov.**

*Homocera* Gistel, 1848b: xi; GISTEL (1851): xi.

**Current status.** New junior objective synonym of *Omocerus* Chevrolat, 1836.

**Comments.** *Homocera* Gistel, 1848 was proposed as an unjustified emendation of *Omocerus* Chevrolat, 1836 (GISTEL 1848b).

***Monax* Gistel, 1848, syn. nov.**

*Monax* Gistel, 1848b: xi; GISTEL (1851): xi.

**Current status.** New junior objective synonym of *Basiprionota* Chevrolat, 1836.

**Comments.** *Monax* Gistel, 1848 was proposed as an unnecessary new replacement name for *Basiprionota* Chevrolat, 1836 (GISTEL 1848b). It is also a junior homonym of *Monax* Warden, 1819 in Mammalia.

***Phalantha* Gistel, 1848**

*Phalantha* Gistel, 1848a: 402; GISTEL (1848b): 123; GISTEL (1851): 123.

**Current status.** Junior objective synonym of *Polychalca* Chevrolat, 1836 (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, BOROWIEC 1999).

**Comments.** *Phalantha* Gistel, 1848 was proposed as an unnecessary new replacement name for *Polychalca* Chevrolat, 1836 (GISTEL 1848a).

***Scotias* Gistel, 1848, syn. nov.**

*Scotias* Gistel, 1848b: xi; GISTEL (1851): xi.

**Current status.** New junior objective synonym of *Metazycera* Chevrolat, 1836.

**Comments.** *Scotias* Gistel, 1848 was proposed as an unnecessary new replacement name for *Metazycera* Chevrolat, 1836 (GISTEL 1848a).

**Cryptocephalinae: Cryptocephalini*****Adiscus* Gistel, 1857**

*Adiscus* Gistel, 1857b: 604; GISTEL (1857c): 92.

**Type species.** *Phaedon nigromaculatum* Kollar & Redtenbacher, 1844, by original designation.

**Current status.** Valid genus in Cryptocephalinae: Cryptocephalini (MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, SCHÖLLER et al. 2010).

***Cataplus* Gistel, 1848**

*Cataplus* Gistel, 1848a: 404; GISTEL (1848b): 123; GISTEL (1851): 123.

**Current status.** Junior objective synonym of *Cadmus* Chevrolat, 1836 (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, REID 1990).

**Comments.** *Cataplus* Gistel, 1848 was proposed as an unnecessary new replacement name for *Cadmus* Chevrolat, 1836 (GISTEL 1848a). The authorship of *Cadmus* is usually credited to ERICHSON (1842) (see REID 1990) but BOUSQUET & BOUCHARD (2013) showed that *Cadmus* is already valid from DEJEAN (1836).

***Disops* Gistel, 1856, syn. nov.**

*Disops* Gistel, 1856a: 381.

**Current status.** New junior objective synonym of *Disopus* Chevrolat, 1836 (currently a subgenus of *Cryptocephalus* Geoffroy, 1762).

**Comments.** *Disops* Gistel, 1856 was proposed as an unjustified emendation of *Disopus* Chevrolat, 1836 (GISTEL 1856a). The name *Disops* cannot be treated as an incorrect subsequent spelling of *Disopus* because GISTEL (1856a) marked it with an asterisk meaning that the name was proposed by Gistel himself. Therefore, I treat *Disops* as an unjustified emendation of *Disopus*.

***Lexiphanes* Gistel, 1848**

*Lexiphanes* Gistel, 1848a: 404; GISTEL (1848b): 123; GISTEL (1851): 123.

**Current status.** Valid genus name (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, RILEY et al. 2003).

**Comments.** *Lexiphanes* Gistel, 1848 was proposed as a new replacement name for *Monachus* Chevrolat, 1836 (a junior homonym of *Monachus* Fleming, 1822 in Mammalia and *Monachus* Kaup, 1829 in Aves) (see MONRÓS & BECHYNÉ 1956, BOUSQUET & BOUCHARD 2013).

***Pachybrachia* Gistel, 1856, syn. nov.**

*Pachybrachia* Gistel, 1856a: 380.

**Current status.** New junior objective synonym of *Pachybrachis* Chevrolat, 1836.

**Comments.** The name *Pachybrachia* cannot be treated as an incorrect subsequent spelling of *Pachybrachis* because GISTEL (1856a) marked it with an asterisk meaning that the name was proposed by Gistel himself. Therefore, I consider *Pachybrachia* an unjustified emendation of *Pachybrachis*.

***Taxaris* Gistel, 1848**

*Taxaris* Gistel, 1848a: 404; GISTEL (1848b): 123; GISTEL (1848c): [10]; GISTEL (1851): 123.

**Current status.** Junior objective synonym of *Disopus* Chevrolat, 1836 (currently a subgenus of *Cryptocephalus* Geoffroy, 1762) (MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, RILEY et al. 2003, LOPATIN et al. 2010).

**Comments.** *Taxaris* Gistel, 1848 was proposed as an unnecessary new replacement name for *Disopus* Chevrolat, 1836 (GISTEL 1848a).

### Cryptocephalinae: Clytrini

#### *Bucedestes* Gistel, 1856, syn. nov.

*Bucedestes* Gistel, 1856a: 380.

**Type species.** *Cryptocephalus longipes* Fabricius, 1775, by monotypy.

**Current status.** New junior synonym of *Lachnaia* Chevrolat, 1836.

**Comments.** The name is available based on Article 12.2.5 (ICZN 1999). GISTEL (1856a) originally included only a single species-group name: 'longipes', which applies to *Cryptocephalus longipes* Fabricius, 1775, currently a junior synonym of *Lachnaia sexpunctata* (Scopoli, 1763). Therefore, the name *Bucedestes* is available and represents a new junior synonym of *Lachnaia*.

#### *Carmentis* Gistel, 1848

*Carmentis* Gistel, 1848a: 404; GISTEL (1848b): 123; GISTEL (1851): 123.

**Current status.** Junior objective synonym of *Smaragdina* Chevrolat, 1836 (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, RILEY et al. 2003, REGALIN & MEDVEDEV 2010).

**Comments.** *Carmentis* Gistel, 1848 was proposed as an unnecessary new replacement name for *Smaragdina* Chevrolat, 1836 (GISTEL 1848a).

#### *Ephorastes* Gistel, 1856, syn. nov.

*Ephorastes* Gistel, 1856a: 380.

**Type species.** *Chrysomela scopolina* Linnaeus, 1767, by monotypy.

**Current status.** New junior synonym of *Coptocephala* Chevrolat, 1836.

**Comments.** The name is available based on Article 12.2.5 (ICZN 1999). GISTEL (1856a) originally included only a single species-group name: 'scopolinus', which applies to *Coptocephala scopolina scopolina* (Linnaeus, 1767). Therefore, the name *Ephorastes* is available and represents a new junior synonym of *Coptocephala*.

#### *Euthyna* Gistel, 1848

*Euthyna* Gistel, 1848a: 404; GISTEL (1848b): viii, 123; GISTEL (1851): viii, 123.

**Current status.** Junior objective synonym of *Anomoia* Agassiz, 1846 (see SEENO & WILCOX 1982, RILEY et al. 2003).

**Comments.** *Euthyna* Gistel, 1848 was proposed as a new replacement name for *Anomoia* Chevrolat, 1836, which is also a junior homonym of *Anomoia* Walker, 1835 in Diptera. An unjustified emendation *Anomoia* Agassiz, 1846 has the priority and is thus treated as a valid name of the genus (BOUCHARD & BOUSQUET 2013).

#### *Harpasta* Gistel, 1848

*Harpasta* Gistel, 1848a: 404; GISTEL (1848b): xi, 123; GISTEL (1851): xi, 123.

**Current status.** Junior objective synonym of *Babia* Chevrolat, 1836 (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, RILEY et al. 2003).

**Comments.** *Harpasta* Gistel, 1848 was proposed as an unnecessary new replacement name for *Babia* Chevrolat, 1836 (GISTEL 1848a).

#### *Helioscopa* Gistel, 1848

*Helioscopa* Gistel, 1848a: 404; GISTEL (1848b): xi, 123; GISTEL (1851): xi, 123.

**Current status.** Valid name in Clytrini (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, AGRAIN et al. 2017).

**Comments.** Proposed as a new replacement name for *Acidalia* Chevrolat, 1836, which is a junior homonym of *Acidalia* Hübner, 1819 and *Acidalia* Treitschke, 1825, both in Lepidoptera (see BOUSQUET & BOUCHARD 2013).

#### *Labidostomus* Gistel, 1848, syn. nov.

*Labidostomus* Gistel, 1848c: [10]; GISTEL (1856a): 380; GISTEL (1856b): 171; GISTEL (1857a): 375.

**Current status.** New junior objective synonym of *Labidostomis* Chevrolat, 1836.

**Comment.** The name *Labidostomus* cannot be considered an incorrect subsequent spelling of *Labidostomis* because GISTEL (1848c) explicitly proposed the name as 'Labidostomus Gistel'. Also in GISTEL (1856a) *Labidostomus* is marked with an asterisk meaning the name was proposed by Gistel. I treat *Labidostomus* as an unjustified emendation of *Labidostomis*.

#### *Necyomantes* Gistel, 1848

*Necyomantes* Gistel, 1848a: 404; GISTEL (1848b): 123; GISTEL (1848c): [10]; GISTEL (1851): 123; GISTEL (1856a): 380.

**Current status.** Junior objective synonym of *Smaragdina* Chevrolat, 1836 (see SEENO & WILCOX 1982, RILEY et al. 2003, REGALIN & MEDVEDEV 2010).

**Comments.** *Necyomantes* Gistel, 1848 was proposed as a new replacement name for *Cyaniris* Chevrolat, 1836 (a junior homonym of *Cyaniris* Dalman, 1816 in Lepidoptera) (see BOUSQUET & BOUCHARD 2013).

#### *Vervex* Gistel, 1848, syn. nov.

*Vervex* Gistel, 1848b: xi; GISTEL (1848c): [10]; GISTEL (1851): xi.

**Current status.** New junior objective synonym of *Lachnaia* Chevrolat, 1836.

**Comments.** *Vervex* Gistel, 1848 was proposed as an unnecessary new replacement name for *Lachnaia* Chevrolat, 1836 (GISTEL 1848b).

### Eumolpinae

#### *Atrachela* Gistel, 1848

*Atrachela* Gistel, 1848a: 404; GISTEL (1848b): 123; GISTEL (1851): 123.

**Current status.** Junior objective synonym of *Metachroma* Chevrolat, 1836 (see MONRÓS & BECHYNÉ 1956, SEENO &

WILCOX 1982, RILEY et al. 2003).

**Comments.** *Atrachela* Gistel, 1848 was proposed as an unnecessary new replacement name for *Metachroma* Chevrolat, 1836 (GISTEL 1848a).

#### ***Atymius* Gistel, 1848**

*Atymius* Gistel, 1848a: 404; GISTEL (1848b): 123; GISTEL (1851): 123.

**Current status.** Junior objective synonym of *Chrysochus* Chevrolat, 1836 (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, RILEY et al. 2003).

**Comments.** *Atymius* Gistel, 1848 was proposed as an unnecessary new replacement name for *Chrysochus* Chevrolat, 1836 (GISTEL 1848a).

#### ***Ballatro* Gistel, 1848**

*Ballatro* Gistel, 1848a: 404; GISTEL (1848b): 123; GISTEL (1851): 123.

**Current status.** Junior objective synonym of *Colaspoma* Laporte, 1833 (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, MOSEYKO & SPRECHER-UEBERSAX 2010).

**Comments.** *Ballatro* Gistel, 1848 was proposed as an unnecessary new replacement name for *Acis* Chevrolat, 1836 (GISTEL 1848a).

#### ***Brachypnoea* Gistel, 1848**

*Brachypnoea* Gistel, 1848a: 404; GISTEL (1848b): 123; GISTEL (1851): 123.

**Current status.** Valid genus name in Eumolpinae (MONRÓS & BECHYNÉ 1956, RILEY et al. 2003).

**Comments.** *Brachypnoea* Gistel, 1848 was proposed as a new replacement name for *Noda* Chevrolat, 1836 (a junior homonym of *Noda* Schellenberg, 1803 in Diptera, see BOUCHARD & BOUSQUET 2013). SEENO & WILCOX (1982) mistakenly gave priority to *Nodonota* Lefèvre, 1885 over the older *Brachypnoea* Gistel, 1848.

#### ***Chartonia* Gistel, 1856, syn. nov.**

*Chartonia* Gistel, 1856a: 381.

#### **Originally included names:**

1. *obscura* Lin. = *Chrysomela obscura* Linnaeus, 1758; now *Bromius obscurus* (Linnaeus, 1758); genus *Bromius* Chevrolat, 1836 (Eumolpinae)
2. *vitis* = *Cryptocephalus vitis* Fabricius, 1775; junior synonym of *Bromius obscurus* (Linnaeus, 1758); genus *Bromius* Chevrolat, 1836 (Eumolpinae)

**Type species.** *Chrysomela obscura* Linnaeus, 1758, by present designation.

**Current status.** New junior objective synonym of *Bromius* Chevrolat, 1836.

**Comments.** The name is available based on Article 12.2.5 (ICZN 1999).

#### ***Cyphra* Gistel, 1848**

*Cyphra* Gistel, 1848a: 404; GISTEL (1848b): xi, 123; GISTEL (1851): xi, 123.

**Current status.** Junior objective synonym of *Chalcoplacis* Chevrolat, 1836 (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982).

**Comments.** *Cyphra* Gistel, 1848 was proposed as an unnecessary new replacement name for *Chalcoplacis* Chevrolat, 1836 (GISTEL 1848a).

#### ***Euchthonius* Gistel, 1856, syn. nov.**

*Euchthonius* Gistel, 1856a: 381.

**Type species.** *Cryptocephalus arenarius* Panzer, 1797, by monotypy.

**Current status.** New junior objective synonym of *Pachnephorus* Chevrolat, 1836.

**Comments.** The name is available based on Article 12.2.5 (ICZN 1999). GISTEL (1856a) originally included only a single species-group name: ‘*arenarius*’, which applies to *Cryptocephalus arenarius* Panzer, 1797, currently a junior synonym of *Pachnephorus pilosus* (Rossi, 1790). Therefore, the name *Euchthonius* is available and represents a new junior synonym of *Pachnephorus*.

#### ***Floricola* Gistel, 1848**

*Floricola* Gistel, 1848a: 404; GISTEL (1848b): xi, 123; GISTEL (1851): xi, 123.

**Current status.** Valid genus name in Eumolpinae (MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, LÖBL & SMETANA 2011).

**Comments.** *Floricola* Gistel, 1848 was proposed as a new replacement name for *Pales* Chevrolat, 1836 (a junior homonym of *Pales* Meigen, 1800 in Diptera) (see BOUSQUET & BOUCHARD 2013).

#### ***Herostrates* Gistel, 1848, syn. nov.**

*Herostrates* Gistel, 1848b: xi; GISTEL (1851): xi.

**Current status.** New junior objective synonym of *Metaxyonycha* Chevrolat, 1836.

**Comments.** *Herostrates* Gistel, 1848 was proposed as an unnecessary new replacement name for *Metazyonycha* Chevrolat, 1836 (GISTEL 1848b). The spelling *Metaxyonycha* is an incorrect subsequent spelling of *Metazyonycha* in prevailing usage and attributed to the publication of the original spelling; therefore, *Metaxyonycha* is deemed to be the correct original spelling according to Article 33.3.1 (ICZN 1999) (BOUCHARD & BOUSQUET 2013).

#### ***Hydrotica* Gistel, 1848**

*Hydrotica* Gistel, 1848a: 404; GISTEL (1848b): xi, 123; GISTEL (1851): xi, 123.

**Current status.** Junior objective synonym of *Typophorus* Chevrolat, 1836 (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, RILEY et al. 2003).

**Comments.** *Hydrotica* Gistel, 1848 was proposed as an unnecessary new replacement name for *Typophorus* Chevrolat, 1836 (GISTEL 1848a).

#### ***Lestivina* Gistel, 1848, syn. nov.**

*Lestivina* Gistel, 1848b: xi; GISTEL (1851): xi.

**Current status.** New junior objective synonym of *Guyanica* Chevrolat, 1836.

**Comments.** *Lestivina* Gistel, 1848 was proposed as an

unnecessary new replacement name for *Guyanica* Chevrolat, 1836 (GISTEL 1848b).

#### ***Lycaste* Gistel, 1848**

*Lycaste* Gistel, 1848a: 404; GISTEL (1848b): 123; GISTEL (1851): 123.

**Current status.** Junior objective synonym of *Chalcophana* Chevrolat, 1836 (SEENO & WILCOX 1982: 65).

**Comments.** *Lycaste* Gistel, 1848 was proposed as an unnecessary new replacement name for *Chalcophana* Chevrolat, 1836 (GISTEL 1848a). Moreover, *Lycaste* Gistel, 1848 is a homonym of *Lycaste* Gistel, 1834 in Buprestidae and *Lycaste* Agassiz, 1846 in Crustacea.

#### ***Plestya* Gistel, 1848**

*Plestya* Gistel, 1848a: 404; GISTEL (1848b): 123; GISTEL (1851): 123.

**Current status.** Junior objective synonym of *Colaspidea* Laporte, 1833 (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, RILEY et al. 2003).

**Comments.** *Plestya* Gistel, 1848 was proposed as an unnecessary new replacement name for *Dia* Dejean, 1836 (GISTEL 1848a), now a synonym of *Colaspidea* Laporte, 1833.

#### ***Polisma* Gistel, 1848, syn. nov.**

*Polisma* Gistel, 1848b: xi; GISTEL (1851): xi.

**Current status.** New junior objective synonym of *Typophorus* Chevrolat, 1836.

**Comments.** *Polisma* Gistel, 1848 was proposed as an unnecessary new replacement name for *Typophorus* Chevrolat, 1836 (GISTEL 1848b).

#### **Lamprosomatinae**

##### ***Laophilus* Gistel, 1856, syn. nov.**

*Laophilus* Gistel, 1856a: 381.

**Type species.** *Byrrhus concolor* Sturm, 1807, by monotypy.

**Current status.** New junior objective synonym of *Oomorphus* Curtis, 1831.

**Comments.** The name is available based on Article 12.2.5 (ICZN 1999). GISTEL (1856a) originally included only a single species-group name: ‘*concolor* Stu.’, which applies to *Oomorphus concolor* (Sturm, 1807). Therefore, the name *Laophilus* is available and represents a new junior synonym of *Oomorphus*.

##### ***Phenareta* Gistel, 1848, syn. nov.**

*Phenareta* Gistel, 1848b: ix and xi; GISTEL (1851): ix and xi.

**Current status.** New junior objective synonym of *Lamprosoma* Kirby, 1819.

**Comments.** *Phenareta* Gistel, 1848 was proposed as an unnecessary new replacement name for *Lamprosoma* Kirby, 1819 (GISTEL 1848b).

#### **Chrysomelinae**

##### ***Agrosteomela* Gistel, 1857**

*Agrosteomela* Gistel, 1857b: 605; GISTEL (1857c): 93.

**Type species.** *Chrysomela caschmirensis* Kollar & Redtenbacher, 1844, by original designation.

**Current status.** Valid name in Chrysomelinae (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, KIPPENBERG 2010).

##### ***Alitene* Gistel, 1856, nomen oblitum**

*Alitene* Gistel, 1856a: 380.

##### **Originally included names:**

1. *pyritosa* Ross. = *Chrysomela pyritosa* Rossi, 1792; now *Neophaedon pyritosa* (Rossi, 1792); genus *Neophaedon* Jacobson, 1901 (Chrysomelinae)
2. *betulae* Lin. = *Chrysomela betulae* Linnaeus, 1758; treated as a nomen dubium in the genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
3. var. *nasturtii* unavailable, nomen nudum.
4. *aucta* = *Chrysomela aucta* Fabricius, 1787; synonym of *Prasocuris (Hydrothassa) glabra* (Herbst, 1783); genus *Prasocuris* Latreille, 1802 (Chrysomelinae)

**Type species.** *Chrysomela pyritosa* Rossi, 1792, by present designation.

**Current status.** The name is available based on Article 12.2.5 (ICZN 1999). Designated here as a nomen oblitum for *Neophaedon* Jacobson, 1901 (nomen protectum).

**Comments.** For many decades the description of *Alitene nasturtii* was attributed to GISTEL (1857b) who on p. 531 described ‘*Phaedon nasturtii* (Alitene Gistel)’ and on p. 547 published the second description under the name ‘*Alitene nasturtii* Gistel (var. *Alit. betulae* Lin.; *Phaedon auct.*)’. STRAND (1917) suggested that *Alitene* is a synonym of *Phaedon*, which was followed in all subsequent publications (e.g. MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, KIPPENBERG 2010). *Alitene nasturtii* was considered the type species of *Alitene* by monotypy.

When verifying Gistel’s publications I discovered that *Alitene* was already proposed in 1856 (GISTEL 1856a) and he included three available species names in it (see above). However, the type species has to be changed because the name ‘*nasturtii*’ is a nomen nudum in GISTEL (1856a) and thus unavailable.

Although the name *Prasocuris* Latreille, 1802 is older than *Alitene* I would like to avoid designating *Chrysomela aucta* Fabricius, 1787 as the type species of *Alitene*. *Chrysomela aucta* is a synonym of *Prasocuris (Hydrothassa) glabra* (Herbst, 1783) and belongs to the subgenus *Hydrothassa* C. G. Thomson, 1859 of *Prasocuris*. If *Chrysomela aucta* is designated as type species, *Alitene* will have the priority over the well-known *Hydrothassa*. I would also like to avoid designating *Chrysomela betulae* Linnaeus, 1758 as the type species as it is a nomen dubium in the genus *Chrysolina* Motschulsky, 1860 and its identity remains unclear.

Therefore, in order to preserve the stability, I designate *Chrysomela pyritosa* Rossi, 1792 as the type species of *Alitene*, and apply Article 23.9 of ICZN (1999), considering *Alitene* a nomen oblitum and *Neophaedon* Jacobson, 1901 a nomen protectum. To my knowledge, *Alitene* was not treated as a valid name after 1899; thus, the requirements of Article 23.9.1.1 are fulfilled. According to Article 23.9.1.2 I supply the references of 25 papers, published by at least 10 authors in the immediately preceding 50 years, and encompassing a span of not less than 10 years, where *Neophaedon* Jacobson, 1901 is used as a valid genus name: BERGEAL (2001), DACCORDI (1994), ESSER (2013), FUCHS & BUSSLER (2014), GE et al. (2013), GEISER (2001), JOLIVET

& HAWKESWOOD (1995), KOFLER (2011), KÖHLER (2001), LOPATIN (1977, 2006, 2010), LOPATIN & KULENOVA (1986), LOPATIN & NESTEROVA (2005), MAICAN & SERAFIM (2012), MEDVEDEV (2015), MIRZOEVA (2001), ÖZDIKMEN (2016), RHEINHEIMER & HASSLER (2018), SAMIN et al. (2019), ŞEN & GÖK (2014), WARCHAŁOWSKI (2010), WINKELMAN (2013), WINKELMAN & DEBREUIL (2008), YANG et al. (2015).

### *Amblis* Gistel, 1848

*Amblis* Gistel, 1848a: 403; GISTEL (1848b): 123; GISTEL (1848c): [9]; GISTEL (1851): 123.

**Type species.** *Chrysomela litura* Fabricius, 1775, by monotypy.

**Current status.** Synonym of *Spartophila* Stephens, 1834 (subgenus of *Gonioctena*) (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, RILEY et al. 2003, KIPPENBERG 2010).

**Comments.** The name is also a junior homonym of *Amblis* Gistel, 1834 (a junior objective synonym of *Chrysobothris* Eschscholtz, 1829, in Buprestidae) (see BOUSQUET & BOUCHARD 2017).

### *Chloemela* Gistel, 1856, nomen oblitum

*Chloemela* Gistel, 1856a: 379; GISTEL (1856b): 175; GISTEL (1857a): 379.

#### Originally included names:

1. *boica* unavailable name, nomen nudum
2. *aerea* Me. = *Chrysomela aerea* Duftschmid, 1825; nomen dubium (see KIPPENBERG 2010), genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
3. *haematoptera* (Lin.) = *Chrysomela haematoptera* Linnaeus, 1758; now *Chrysolina (Colaphodes) haematoptera* (Linnaeus, 1758); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
4. *vulgatissima* Schr. = *Chrysomela vulgatissima* Linnaeus, 1758; now *Phratora vulgatissima* (Linnaeus, 1758); genus *Phratora* Chevrolat, 1836 (Chrysomelinae)
5. *sanguinolenta* Lin. = *Chrysomela sanguinolenta* Linnaeus, 1758; now *Chrysolina (Stichoptera) sanguinolenta* (Linnaeus, 1758); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
6. *limbata* = *Chrysomela limbata* Fabricius, 1775; now *Chrysolina (Zeugotaenia) limbata limbata* (Fabricius, 1775); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
7. *marginata* Lin. = *Chrysomela marginata* Linnaeus, 1758; now *Chrysolina (Chalcoidea) marginata marginata* (Linnaeus, 1758); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
8. *analís* Lin. = *Chrysomela analis* Linnaeus, 1767; now *Chrysolina (Chalcoidea) analis* (Linnaeus, 1767); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
9. *lamina* = *Chrysomela lamina* Fabricius, 1792; synonym of *Chrysolina (Sulcicollis) oricalcia* (O. F. Müller, 1776); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
10. *geminata* Pay. = *Chrysomela geminata* Paykull, 1799; now *Chrysolina (Hypericia) geminata* (Paykull, 1799); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
11. *viridula* Lai. = *Chrysomela viridula* Laicharting, 1781; synonym of *Chrysolina (Hypericia) hyperici*

- (Forster, 1771); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
- = *Chrysomela varians* Schaller, 1783; now *Chrysolina (Sphaeromela) varians* (Schaller, 1783); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
12. *variáns* = *Chrysomela fulgida* Fabricius, 1801; synonym of *Chrysolina (Euchrysolina) graminis graminis* (Linnaeus, 1758); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
13. *fulgida* = *Chrysomela fulgida* Fabricius, 1801; synonym of *Chrysolina (Euchrysolina) graminis graminis* (Linnaeus, 1758); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
14. var. *aurolimbata* Bess. unavailable name, nomen nudum
15. *graminis* = *Chrysomela graminis* Linnaeus, 1758; now *Chrysolina (Euchrysolina) graminis graminis* (Linnaeus, 1758); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
16. *fastuosa* Lin. = *Coccinella fastuosa* Scopoli, 1763; now *Chrysolina (Fasta) fastuosa fastuosa* (Scopoli, 1763); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
17. *violacea* = *Chrysomela violacea* Schaller, 1783; synonym of *Chrysolina (Chrysomorpha) cerealis megerlei* (Fabricius, 1801); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
18. *mixta* Zie. = *Chrysolina mixta* Küster, 1844; synonym of *Chrysolina (Chrysomorpha) cerealis megerlei* (Fabricius, 1801); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
19. *cerealis* Lin. = *Chrysolina cerealis* Linnaeus, 1767; now *Chrysolina (Chrysomorpha) cerealis cerealis* (Linnaeus, 1767); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
20. var. *ericae* Dahl = *Chrysomela ericae* Suffrian, 1851; synonym of *Chrysolina (Chrysomorpha) cerealis cerealis* (Linnaeus, 1767); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
21. *staphyleae* Lin. = *Chrysomela staphyleae* Linnaeus, 1758; now *Chrysolina (Chrysolina) staphyleae* (Linnaeus, 1758); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
22. *polita* Lin. = *Chrysomela polita* Linnaeus, 1758; now *Chrysolina (Erythrochrysa) polita polita* (Linnaeus, 1758); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)
23. *lurida* = *Chrysomela lurida* Linnaeus, 1767; synonym of *Chrysolina (Taeniosticha) pseudolurida pseudolurida* (Roubal, 1917); genus *Chrysolina* Motschulsky, 1860 (Chrysomelinae)

**Type species.** *Chrysomela staphyleae* Linnaeus, 1758, by present designation.

**Current status.** Designated here as a nomen oblitum for *Chrysolina* Motschulsky, 1860 (nomen protectum).

**Comments.** The name is available based on Article 12.2.5 (ICZN 1999). BOUCHARD et al. (2011) listed *Chloemela* Gistel, 1856 as a synonym of *Chrysomela* Linnaeus, 1758. Because the type species was never designated and all included available species names belong to *Chrysolina* Motschulsky, 1860 and *Phratora* Chevrolat, 1836, the synonymy with *Chrysomela* is incorrect.

GISTEL (1856a) listed altogether 23 names under the genus *Chloemela*. Two of these names, *boica* and var. *aurolimbata*, are nomina nuda, and thus are not available. The other 21 names are available and all but one of them are currently classified in the species-rich genus *Chrysolina*. The exception is *C. vulgatissima* classified in *Phratora*. I designate here *Chrysomela staphyleae* Linnaeus, 1758 as the type species of *Chloemela*.



The acceptance of *Chloemela* as a valid genus would destabilize the present system as widely used *Chrysolina* would become synonym of *Chloemela*. In order to preserve the stability, I apply Article 23.9 of the ICZN (1999) and designate *Chloemela* as a nomen oblitum and *Chrysolina* as a nomen protectum. To my knowledge, *Chloemela* was not treated as a valid name after 1899; thus, the conditions of Article 23.9.1.1 are met. According to Article 23.9.1.2 I supply the references of 25 papers, published by at least 10 authors in the immediately preceding 50 years, and encompassing a span of not less than 10 years, where *Chrysolina* Motschulsky, 1860 is used as a valid genus name: BIEŃKOWSKI (2007, 2008), BOURDONNÉ (1986), DACCORDI (1994), DACCORDI & RUFFO (1979, 1980), GEISER (2001), JOLIVET & HAWKESWOOD (1995), KIPPENBERG (2004, 2012, 2017), LOPATIN (1992, 2000, 2006), LOPATIN & KULENOVA (1986), MEDVEDEV (1999), MIKHAILOV (2000, 2001, 2002), RHEINHEIMER & HASSLER (2018), RILEY et al. (2003), WARCZAŁOWSKI (2010), WINKELMAN (2013), WINKELMAN & DEBREUIL (2008), YANG et al. (2015).

### ***Comisteisa* Gistel, 1848**

*Comisteisa* Gistel, 1848a: 403; GISTEL (1848b): xi, 123; GISTEL (1851): xi, 123.

**Type species.** *Comisteisa xanthoptera* Gistel, 1848 by monotypy.

**Current status.** Junior objective synonym of *Elytrosphaera* Blanchard, 1845 (see Comments).

**Comments.** MONRÓS & BECHYNÉ (1956) mismatched some of Gistel's publications. They used the reference 'Gistel, 1837: 403' for *Comisteisa*, which in fact refers to GISTEL (1848a). Using this wrong dating they gave the priority to *Comisteisa* over *Elytrosphaera* and synonymized them. Bechyné used *Comisteisa* as a valid genus name in his subsequent papers (BECHYNÉ 1957, BECHYNÉ & SPRINGLOVA DE BECHYNÉ 1965). On the contrary, SEENO & WILCOX (1982) and DACCORDI (1994) listed *Comisteisa* as a synonym of *Elytrosphaera* Chevrolat, 1843. However, neither application is correct.

GISTEL (1848a) attributed *Comisteisa xanthoptera* to Perty but I was not able to find Perty's description; therefore, the taxon has Gistel's authorship as it is not clearly stated that Perty provided the description. However, *Comisteisa xanthoptera* was mentioned in three publications which were published earlier but always as a nomen nudum: PERTY (1830: 18) as '*Chrysomela xanthoptera* Pty.'; GISTEL (1834) as '*Doryphora xanthoptera* Pty.'; and GISTEL (1846: 134) as 'Nov. Gen. (*Chrys. xanthoptera* Perty)'.

Also, the situation with *Elytrosphaera* is complicated as the authorship and type species have been unclear during the entire history of the genus. Most authors attributed *Elytrosphaera* to Chevrolat in DEJEAN (1836) (e.g. CHAPUIS 1874, DACCORDI 2008), to Chevrolat in D'ORBIGNY (1843: 655) (e.g. WEISE 1916, BLACKWELDER 1946, BECHYNÉ 1952, SEENO & WILCOX 1982, DACCORDI 1994), or to Chevrolat without specification (e.g. BLANCHARD 1845, STÅL 1858, MOTSCHULSKY 1860: 250, BECHYNÉ 1950, MONRÓS & BECHYNÉ 1956). On the other hand, STÅL (1860, 1863) and JACOBY (1883, 1891) cre-

ated *Elytrosphaera* to STÅL (1858), and, finally, BALY (1858, 1859) and BOUCHARD et al. (2011) attributed it to BLANCHARD (1845).

*Elytrosphaera* was mentioned for the first time in DEJEAN's (1836) catalogue with Chevrolat's authorship and accompanied by three nomina nuda: '*flavipennis* Dej. (= *auripennis* Chevrolat, = *inflata* Mannerheim)', '*sanguinipennis* Buquet', and '*testudinaria* Dej.'. Thus, *Elytrosphaera* in DEJEAN (1836) is also a nomen nudum (see BOUSQUET & BOUCHARD 2013). Chevrolat in D'ORBIGNY (1843: 655) listed *Elytrosphaera* without any description within the entry on 'Chrysomélines' and accompanied it by the name '*auripennis* Chevrolat', which is a nomen nudum. Chevrolat also provided a simple identification key to the genera of Chrysomélines but the entry with *Elytrosphaera* is ambiguous as it contains also other genus and therefore it cannot be considered a valid description. Chevrolat in D'ORBIGNY (1844: 283) again listed *Elytrosphaera* under the letter E but also without description and accompanied by the same nomina nuda which appeared in DEJEAN (1836). To sum up, *Elytrosphaera* in DEJEAN (1836) and D'ORBIGNY (1843, 1844) is a nomen nudum.

The first description of *Elytrosphaera* was published by BLANCHARD (1845) but without any species included; however, the name is available according to Article 67.2.2 (ICZN 1999). The nominal species that were first subsequently included and thus are deemed to be the only originally included nominal species are those described by STÅL (1858): *Elytrosphaera xanthopyga* Stål, 1858, *E. breviscula* Stål, 1858, *E. noverca* Stål, 1858, *E. fulminigera* Stål, 1858, *E. testudinaria* Stål, 1858, *E. hospes* Stål, 1858, and *E. flavolatera* Stål, 1858. BLANCHARD (1845) used the spelling *Elytrosphoera*; however, since then it has been used only by CHAPUIS (1874) and BOUCHARD et al. (2011). An incorrect subsequent spelling *Elytrosphaera* is in prevailing usage as it has been used by all other authors, thus it is deemed to be the correct original spelling based on Article 33.3.1 (ICZN 1999). MOTSCHULSKY (1860: 188) introduced this genus as '*Elythrosphaera* Motsch.', which I consider an incorrect subsequent spelling not in prevailing usage. Motschulsky's authorship is an evident mistake because in the index on p. 250 he attributed it to Chevrolat.

Chevrolat in D'ORBIGNY (1843: 655) clearly mentioned '*auripennis* Chevrolat' as the type species of *Elytrosphaera*; however, it is a nomen nudum and therefore the designation is invalid. Similarly, MOTSCHULSKY's (1860: 250) designation of '*Elytrosphaera flavipennis* Dej.' is also invalid. *Elytrosphaera flavipennis* was formally described by BALY (1859) but it is not among the species originally included in *Elytrosphaera* by STÅL (1858). The type species of *Elytrosphaera* is *E. xanthopyga* Stål, 1858 designated by ACHARD (1923).

*Elytrosphaera* Blanchard, 1845 has priority over *Comisteisa* Gistel, 1848. Because the type species of *Elytrosphaera* and *Comisteisa* (*E. xanthopyga* Stål, 1858 and *C. xanthoptera* Gistel, 1848) were synonymized by MONRÓS & BECHYNÉ (1956), *Comisteisa* is here confirmed as a junior objective synonym of *Elytrosphaera*.

***Eleia* Gistel, 1848**

*Eleia* Gistel, 1848b: viii, xiv; GISTEL (1848c): [9]; GISTEL (1851): viii, xiv.

**Current status.** Junior objective synonym of *Chrysomela* Linnaeus, 1758 (see BOUCHARD et al. 2011).

**Comments.** *Eleia* Gistel, 1848 was proposed as an unnecessary new replacement name for *Chrysomela* Linnaeus, 1758 (GISTEL 1848b). BIENKOWSKI (2019) proposed *Eleia* as a nomen oblitum for *Chrysolina* (nomen protectum). There was no reason for such an act as *Eleia* was explicitly proposed as a new replacement name for *Chrysomela*.

***Ernobia* Gistel, 1856, syn. nov.**

*Ernobia* Gistel, 1856a: 379.

**Originally included names:**

1. *populi* Lin. = *Chrysomela populi* Linnaeus, 1758; genus *Chrysomela* Linnaeus, 1758 (Chrysomelinae)
2. *tremulae* = *Chrysomela tremula* Fabricius, 1787; genus *Chrysomela* Linnaeus, 1758 (Chrysomelinae)
3. *cuprea* = *Chrysomela cuprea* Fabricius, 1775; genus *Chrysomela* Linnaeus, 1758 (Chrysomelinae)
4. *aenea* Lin. = *Chrysomela aenea* Linnaeus, 1758; now *Plagiosterna aenea aenea* (Linnaeus, 1758); genus *Plagiosterna* Motschulsky, 1860 (Chrysomelinae)
5. *lapponica* Lin. = *Chrysomela lapponica* Linnaeus, 1758; genus *Chrysomela* Linnaeus, 1758 (Chrysomelinae)
6. *20-punctata* = *Coccinella vigintipunctata* Scopoli, 1763; now *Chrysomela vigintipunctata vigintipunctata* Scopoli, 1763; genus *Chrysomela* Linnaeus, 1758 (Chrysomelinae)
7. *collaris* Fab. = *Chrysomela collaris* Linnaeus, 1758; genus *Chrysomela* Linnaeus, 1758 (Chrysomelinae)
8. var. *collaris* Lin. = *Chrysomela collaris* Linnaeus, 1758; genus *Chrysomela* Linnaeus, 1758 (Chrysomelinae)

**Type species.** *Chrysomela populi* Linnaeus, 1758, by present designation.

**Current status.** New junior objective synonym of *Chrysomela* Linnaeus, 1758.

**Comments.** The name is available based on Article 12.2.5 (ICZN 1999).

***Foliana* Gistel, 1848, syn. nov.**

*Foliana* Gistel, 1848b: xi; GISTEL (1851): xi.

**Current status.** New junior objective synonym of *Leucocera* Chevrolat, 1836.

**Comments.** *Foliana* Gistel, 1848 was proposed as an unnecessary new replacement name for *Leucocera* Chevrolat, 1836 (GISTEL 1848b).

***Gasterophysia* Gistel, 1856, syn. nov.**

*Gasterophysia* Gistel, 1856a: 380.

**Current status.** New junior objective synonym of *Gastrophysa* Chevrolat, 1836.

**Comments.** *Gasterophysia* Gistel, 1856 was proposed as an unjustified emendation of *Gastrophysa* Chevrolat, 1836 (GISTEL 1856).

***Goniactis* Gistel, 1856, syn. nov.**

*Goniactis* Gistel, 1856a: 380.

**Current status.** New junior objective synonym of *Gonioctena* Chevrolat, 1836.

**Comments.** *Goniactis* Gistel, 1856 was proposed as an unjustified emendation of *Gonioctena* Chevrolat, 1836 (GISTEL 1856).

***Gymnota* Gistel, 1848**

*Gymnota* Gistel, 1848a: 403; GISTEL (1848b): 123; GISTEL (1848c): [9]; GISTEL (1851): 123.

**Type species.** *Chrysomela populi* Linnaeus, 1758, designated by KIPPENBERG (2010).

**Current status.** Synonym of *Chrysomela* Linnaeus, 1758 (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, RILEY et al. 2003, KIPPENBERG 2010).

**Comments.** *Gymnota* Gistel, 1848 is also a junior primary homonym of *Gymnota* Gistel, 1834 (a junior synonym of *Ancylocheira* Eschscholtz, 1829, in Buprestidae) (see BOUSQUET & BOUCHARD 2017).

***Harpax* Gistel, 1848, syn. nov.**

*Harpax* Gistel, 1848b: xi; GISTEL (1851): xi.

**Current status.** New junior objective synonym of *Strichosa* Chevrolat, 1843.

**Comments.** *Harpax* Gistel, 1848 was proposed as an unnecessary new replacement name for *Strichosa* Chevrolat, 1843 (GISTEL 1848b). It is also a junior primary homonym of *Harpax* Parkinson, 1811 in Mollusca, *Harpax* Audinet-Serville, 1831 in Orthoptera and *Harpax* Gistel, 1848: viii in Mollusca.

***Phyllis* Gistel, 1848**

*Phyllis* Gistel, 1848a: 403; GISTEL (1848b): 123; GISTEL (1851): 123.

**Type species.** *Phyllis fulvipes* Gistel, 1848, by monotypy.

**Current status.** Synonym of *Calligrapha* Chevrolat, 1836 (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, DACCORDI 1994, RILEY et al. 2003).

**Comments.** *Phyllis* is also a junior primary homonym of *Phyllis* Robineau-Desvoidy, 1830 (Diptera, nomen oblitum) and *Phyllis* Gistel, 1834 (Buprestidae) (see BOUSQUET & BOUCHARD 2017).

***Poebia* Gistel, 1856, syn. nov.**

*Poebia* Gistel, 1856a: 380.

**Type species.** *Chrysomela armoraciae* Linnaeus, 1758, by monotypy.

**Current status.** New junior objective synonym of *Phaedon* Latreille, 1829.

**Comments.** GISTEL (1856a) made two nomenclatural acts concerning *Poebia* in the same publication. On p. 380 he proposed the name *Poebia* and on p. 425 he synonymized it with *Plagiodesa* Chevrolat, 1836. Since both acts were proposed in the same publication, the precedence cannot be objectively determined. I hereby fix the precedence to the act on p. 380 in accordance with the principle of the First Reviser (Art. 24.2.2., ICZN 1999). Therefore, *Poebia* is an available genus-group name according to Article 12.2.5 (ICZN 1999).

GISTEL (1856a) included in *Poebia* only one available name, '*armoraciae* Lin.' = *Phaedon armoraciae* (Linnaeus,

1758), which is the type species of the genus *Phaedon* Latreille, 1829. Therefore, I hereby synonymize *Poebia* with *Phaedon*. GISTEL (1856a) himself synonymized *Poebia* with *Plagioder*. Formally, the type species of *Plagioder* is also *Chrysomela armoraciae* Linnaeus, 1758. An application to the Commission to designate *Chrysomela versicolora* Laicharting, 1781 as the type species of *Plagioder* is necessary to promote the stability (for the details see BOUSQUET & BOUCHARD 2013).

#### **Platyphora Gistel, 1857**

*Platyphora* Gistel, 1857b: 564; GISTEL (1857c): 52.

**Type species.** *Doryphora histrio* Olivier, 1807, by original designation.

**Current status.** Valid name in Chrysomelinae (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982).

#### **Sphaeratrix Gistel, 1848**

*Sphaeratrix* Gistel, 1848b: 190; GISTEL (1848a): 625; GISTEL (1857b): 546; GISTEL (1857c): 34.

**Type species.** *Sphaeratrix latifrons* Gistel, 1848, by monotypy.

**Current status.** Valid name in Chrysomelinae (see MONRÓS & BECHYNÉ 1956, DACCORDI 1994).

**Comments.** The description was published twice. The first is on page 190 of the supplement ('*Schluss*') to GISTEL (1848b) published in June 1848. The same description in GISTEL (1848a) is on page 625 (issue 4 published in July 1848).

### **Galerucinae: Alticini**

#### **Geochoreutes Gistel, 1856, syn. nov.**

*Geochoreutes* Gistel, 1856a: 379.

#### **Originally included names:**

1. *fuscicornis* Lin. = *Chrysomela fuscicornis* Linnaeus, 1767; now *Podagrica fuscicornis* (Linnaeus, 1767); genus *Podagrica* Chevrolat, 1836 (Galerucinae: Alticini)
2. *fuscipes* = *Altica fuscipes* Fabricius, 1775; now *Podagrica fuscipes* (Fabricius, 1775); genus *Podagrica* Chevrolat, 1836 (Galerucinae: Alticini)
3. *malvae* Ill. = *Haltica malvae* Illiger, 1807; now *Podagrica malvae malvae* (Illiger, 1807); genus *Podagrica* Chevrolat, 1836 (Galerucinae: Alticini)

**Type species.** *Altica fuscipes* Fabricius, 1775, by present designation.

**Current status.** New junior objective synonym of *Podagrica* Chevrolat, 1836.

**Comments.** The name is available based on Article 12.2.5 (ICZN 1999).

#### **Haplosonyx Gistel, 1848, syn. nov.**

*Haplosonyx* Gistel, 1848b: xiv; GISTEL (1851): xiv.

**Current status.** New junior objective synonym of *Oedionychis* Latreille, 1829.

**Comments.** SEENO & WILCOX (1982) mistakenly considered *Haplosonyx* Gistel, 1848 an emendation of *Aplosonyx* Chevrolat, 1836, while GISTEL (1848b) clearly proposed the name as an unnecessary new replacement name for *Oedionychis* Latreille, 1829.

#### **Pantryptes Gistel, 1856, syn. nov.**

*Pantryptes* Gistel, 1856a: 378.

#### **Originally included names:**

1. *azureus* Kno. = *Graptodera azurea* Sturm, 1843; synonym of *Altica tamaricis tamaricis* Schrank, 1785; genus *Altica* Geoffroy, 1762 (Galerucinae: Alticini)
2. *oleraceus* Lin. = *Chrysomela oleracea* Linnaeus, 1758; now *Altica oleracea oleracea* (Linnaeus, 1758); genus *Altica* Geoffroy, 1762 (Galerucinae: Alticini)
2. var. *erucae* = *Galleruca erucae* Fabricius, 1792; synonym of *Altica tamaricis tamaricis* Schrank, 1785; genus *Altica* Geoffroy, 1762 (Galerucinae: Alticini)
3. *mercurialis* = *Galleruca mercurialis* Fabricius, 1792; now *Hermaphysa mercurialis* (Fabricius, 1792); genus *Hermaphysa* Foudras, 1860 (Galerucinae: Alticini)

**Type species.** *Chrysomela oleracea* Linnaeus, 1758, by present designation.

**Current status.** New junior objective synonym of *Altica* Geoffroy, 1762.

**Comments.** The name is available based on Article 12.2.5 (ICZN 1999).

#### **Psyllides Gistel, 1856, syn. nov.**

*Psyllides* Gistel, 1856a: 379.

**Current status.** New junior objective synonym of *Psylliodes* Latreille, 1829.

**Comments.** *Psyllides* Gistel, 1856 was proposed as an unjustified emendation of *Psylliodes* Latreille, 1829 (GISTEL 1856).

#### **Pusio Gistel, 1848, syn. nov.**

*Pusio* Gistel, 1848b: xi; GISTEL (1851): xi.

**Current status.** New junior synonym of *Acrocrypta* Baly, 1862.

**Comments.** GISTEL (1848b) proposed it as a new replacement name for *Colpodes* Chevrolat, 1836 (a junior primary homonym of *Colpodes* Macleay, 1825 in Carabidae – see BOUSQUET & BOUCHARD 2013). *Pusio* Gistel, 1848 is a junior primary homonym of *Pusio* Gray, 1833 in Mollusca and cannot be used as a valid name instead of *Colpodes* Chevrolat, 1836. The oldest available name for this genus remains *Acrocrypta* Baly, 1862.

#### **Sphaerodermus Gistel, 1856, syn. nov.**

*Sphaerodermus* Gistel, 1856a: 379.

**Current status.** New junior objective synonym of *Sphaeroderma* Stephens, 1831.

**Comments.** *Sphaerodermus* Gistel, 1856 was proposed as an unjustified emendation of *Sphaeroderma* Stephens, 1831 (GISTEL 1856).

### **Galerucinae (excl. Alticini)**

#### **Eparchista Gistel, 1848, syn. nov.**

*Eparchista* Gistel, 1848b: xi; GISTEL (1851): xi.

**Current status.** New junior synonym of *Oides* Weber, 1801.

**Comments.** *Eparchista* Gistel, 1848 was proposed as an unnecessary new replacement name for *Ochralea* Chevrolat, 1836 (now a synonym of *Oides* Weber, 1801).

#### ***Scholastica* Gistel, 1848, syn. nov.**

*Scholastica* Gistel, 1848a: 402; GISTEL (1848b): 123; GISTEL (1851): 123.

**Current status.** New junior objective synonym of *Agelastica* Chevrolat, 1836.

**Comments.** *Scholastica* Gistel, 1848 was proposed as an unnecessary new replacement name for *Agelastica* Chevrolat, 1836 (GISTEL 1848a).

#### ***Theone* Gistel, 1857**

*Theone* Gistel, 1857b: 585; GISTEL (1857c): 73.

**Type species.** *Galleruca silphoides* Dalman, 1823, by original designation.

**Current status.** Valid genus name in Galerucinae (see MONRÓS & BECHYNÉ 1956, SEENO & WILCOX 1982, BEENEN 2010).

#### **Unavailable names**

GISTEL (1856a: 378) proposed the genus name *Henicentomum* accompanied only by the name ‘*suturale* Ill.’ which is a nomen nudum. In the same publication on p. 425, *Henicentomum* is synonymized with ‘*Callimicrus*’ (= *Calomicrus* Dillwyn, 1829). Both nomenclatural acts concern the same taxon and the precedence between them cannot be objectively determined. In accordance with the principle of the First Reviser (Art. 24.2.2.) I fix the precedence to the act on p. 378 and, thus, *Henicentomum* is an unavailable genus name because it was not accompanied by an available species name.

GISTEL (1848b: xi) proposed an unnecessary new replacement name *Simicha* Gistel, 1848 for *Acentroptera* Chevrolat, 1836, which is a nomen nudum (BOUCHARD & BOUSQUET 2013). The valid description of *Acentroptera* was published by GUÉRIN-MÉNEVILLE (1844). Despite the fact that *Acentroptera* Guérin-Méneville, 1844 was valid when GISTEL (1848b) proposed *Simicha*, I treat *Simicha* as an unavailable name because it was explicitly proposed for *Acentroptera* Chevrolat being a nomen nudum.

The following genus names were not provided with available species names and were proposed as replacement names for the genera proposed by Chevrolat and Dejean in DEJEAN’S (1836) catalogue. However, these genera are also nomina nuda as no valid species was included in them (see BOUSQUET & BOUCHARD 2013) and therefore Gistel’s replacement names are also unavailable.

#### **Eumolpinae**

*Arthrodeis* Gistel, 1848b: xi [= 1851: xi] nom. nov. for *Charitonia* Dejean, 1836 [nomen nudum]

*Atonia* Gistel, 1848a: 404 [= 1848b: 123; = 1851: 123] nom. nov. for *Fidia* Dejean, 1836 [nomen nudum]

*Chria* Gistel, 1848b: xi [= 1851: xi] nom. nov. for *Chrysopeplis* Dejean, 1836 [nomen nudum]

*Gyriosoma* Gistel, 1848b: xi [= 1851: xi] nom. nov. for *Bathseba* Dejean, 1836 [nomen nudum]

*Helos* Gistel, 1848a: 404 [= 1848b: xi; = 1851: xi] nom. nov. for *Rumina* Dejean, 1836 [nomen nudum]

*Histrio* Gistel, 1848b: xi [= 1851: xi] nom. nov. for *Nerissus* Dejean, 1836 [nomen nudum]

*Homosarthra* Gistel, 1848b: xi [= 1851: xi] nom. nov. for *Eva* Dejean, 1836 [nomen nudum]

*Hoplomacha* Gistel, 1848b: xi [= 1851: xi] nom. nov. for *Plusiopeplis* Dejean, 1836 [nomen nudum]

*Hygroscopa* Gistel, 1848b: xi [= 1851: xi] nom. nov. for *Lepropterus* Dejean, 1836 [nomen nudum]

*Hyperantha* Gistel, 1848a: 404 [= 1848b: xi; = 1851: xi] nom. nov. for *Lepronota* Chevrolat, 1836 [nomen nudum]

*Paidaria* Gistel, 1848b: xi [= 1851: xi] nom. nov. for *Dorylas* Dejean, 1836 [nomen nudum]

#### **Galerucinae**

*Ebulia* Gistel, 1848b: xi [= 1851: xi] nom. nov. for *Dasymallus* Chevrolat, 1836 [nomen nudum]

#### **Cryptocephalinae: Clytrini**

*Chepora* Gistel, 1848b: xi [= 1851: xi] nom. nov. for *Tachypetes* Chevrolat, 1836 [nomen nudum]

#### **Cryptocephalinae: Cryptocephalini**

*Hydnicola* Gistel, 1848b: xi [= 1851: xi] nom. nov. for *Strigophorus* Chevrolat, 1836 [nomen nudum]

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## Appendix:

### Alphabetical list of Gistel's Chrysomelidae genus-group names and their taxonomical position

- Adiscus* Gistel, 1857 [Cryptocephalinae] – valid genus name
- Agrosteomela* Gistel, 1857 [Chrysomelinae] – valid genus name
- Alitene* Gistel, 1856 [Chrysomelinae] – nomen oblitum (for *Neophaedon* Jacobson, 1901, nomen protectum)
- Ambilis* Gistel, 1848 [Chrysomelinae] – synonym of *Gonioctena* (sbg. *Spartophila* Stephens, 1834)
- Anthurga* Gistel, 1848 [Criocerinae] – new synonym of *Crioceris* Geoffroy, 1762
- Arthrodeis* Gistel, 1848 [Eumolpinae] – unavailable name
- Atonia* Gistel, 1848 [Eumolpinae] – unavailable name
- Atrachela* Gistel, 1848 [Eumolpinae] – synonym of *Metachroma* Chevrolat, 1836
- Atymius* Gistel, 1848 [Eumolpinae] – synonym of *Chrysochus* Chevrolat, 1836
- Axis* Gistel, 1848 [Cassidinae] – new synonym of *Hybosa* Chevrolat, 1842
- Ballatro* Gistel, 1848 [Eumolpinae] – synonym of *Colasposoma* Laporte, 1833
- Brachypnoea* Gistel, 1848 [Eumolpinae] – valid genus name
- Bucedestes* Gistel, 1856 [Cryptocephalinae: Clytrini] – new synonym of *Lachnaia* Chevrolat, 1836
- Calamobia* Gistel, 1856 [Donaciinae] – new synonym of *Macrolepa* Samouelle, 1819
- Carmantis* Gistel, 1848 [Cryptocephalinae: Clytrini] – synonym of *Smaragdina* Chevrolat, 1836
- Cataplus* Gistel, 1848 [Cryptocephalinae] – synonym of *Cadmus* Chevrolat, 1836
- Chartonia* Gistel, 1856 [Eumolpinae] – new synonym of *Bromius* Chevrolat, 1836
- Chepora* Gistel, 1848 [Cryptocephalinae: Clytrini] – unavailable name
- Chloemela* Gistel, 1856 [Chrysomelinae] – nomen oblitum (for *Chrysolina* Motschulsky, 1860, nomen protectum)
- Chria* Gistel, 1848 [Eumolpinae] – unavailable name
- Comisteisa* Gistel, 1848 [Chrysomelinae] – synonym of *Elytrosphaera* Blanchard, 1845
- Cyphra* Gistel, 1848 [Eumolpinae] – synonym of *Chalcoplacis* Chevrolat, 1836
- Disops* Gistel, 1856 [Cryptocephalinae] – new synonym of *Cryptocephalus* (sbg. *Disopus* Chevrolat, 1836)
- Donacocia* Gistel, 1856 [Donaciinae] – valid subgenus of *Donacia* Fabricius, 1775
- Ebulia* Gistel, 1848 [Galerucinae] – unavailable name
- Echporastes* Gistel, 1856 [Cryptocephalinae: Clytrini] – new synonym of *Coptocephala* Chevrolat, 1836

- Eleia* Gistel, 1848 [Chrysomelinae] – synonym of *Chrysomela* Linnaeus, 1758
- Eparchista* Gistel, 1848 [Galerucinae] – new synonym of *Oides* Weber, 1801
- Epichorestes* Gistel, 1848 [Cassidinae] – new synonym of *Botanochara* Dejean, 1836
- Ernobia* Gistel, 1856 [Chrysomelinae] – new synonym of *Chrysomela* Linnaeus, 1758
- Euchthonius* Gistel, 1856 [Eumolpinae] – new synonym of *Pachnephorus* Chevrolat, 1836
- Eurypedus* Gistel, 1834 [Cassidinae] – valid genus name
- Euthyna* Gistel, 1848 [Cryptocephalinae: Clytrini] – synonym of *Anomoea* Agassiz, 1846
- Festa* Gistel, 1848 [Cassidinae] – new synonym of *Notosacantha* Chevrolat, 1836
- Floricola* Gistel, 1848 [Eumolpinae] – valid genus name
- Foliana* Gistel, 1848 [Chrysomelinae] – new synonym of *Leucocera* Chevrolat, 1836
- Gasterophysia* Gistel, 1856 [Chrysomelinae] – new synonym of *Gastrophysa* Chevrolat, 1836
- Geochoreutes* Gistel, 1856 [Galerucinae: Alticini] – new synonym of *Podagrica* Chevrolat, 1836
- Goniactis* Gistel, 1856 [Chrysomelinae] – new synonym of *Gonioctena* Chevrolat, 1836
- Gymnota* Gistel, 1848 [Chrysomelinae] – synonym of *Chrysomela* Linnaeus, 1758
- Gyrosoma* Gistel, 1848 [Eumolpinae] – unavailable name
- Haplosynyx* Gistel, 1848 [Galerucinae: Alticini] – new synonym of *Oedionychis* Latreille, 1829
- Harpasta* Gistel, 1848 [Cryptocephalinae: Clytrini] – synonym of *Babia* Chevrolat, 1836
- Harpax* Gistel, 1848 [Chrysomelinae] – new synonym of *Strichosa* Chevrolat, 1843
- Helioscopa* Gistel, 1848 [Cryptocephalinae: Clytrini] – valid genus name
- Helos* Gistel, 1848 [Eumolpinae] – unavailable name
- Henicentomum* Gistel, 1856 [Galerucinae] – unavailable name
- Herostrates* Gistel, 1848 [Eumolpinae] – new synonym of *Metaxyonycha* Chevrolat, 1836
- Histrion* Gistel, 1848 [Eumolpinae] – unavailable name
- Homocera* Gistel, 1848 [Cassidinae] – new synonym of *Omocera* Chevrolat, 1836
- Homosarthra* Gistel, 1848 [Eumolpinae] – unavailable name
- Hoplomacha* Gistel, 1848 [Eumolpinae] – unavailable name
- Hydnicola* Gistel, 1848 [Cryptocephalinae] – unavailable name
- Hydrotica* Gistel, 1848 [Eumolpinae] – synonym of *Typophorus* Chevrolat, 1836
- Hygroscopa* Gistel, 1848 [Eumolpinae] – unavailable name
- Hyperantha* Gistel 1848 [Eumolpinae] – unavailable name
- Labidostomus* Gistel, 1848 [Cryptocephalinae: Clytrini] – new synonym of *Labidostomis* Chevrolat, 1836
- Laophilus* Gistel, 1856 [Lamprosomatinae] – new synonym of *Oomorpha* Curtis, 1831
- Lestivina* Gistel, 1848 [Eumolpinae] – new synonym of *Guyanica* Chevrolat, 1836
- Lexiphanes* Gistel, 1848 [Cryptocephalinae] – valid genus name
- Lycaste* Gistel, 1848 [Eumolpinae] – synonym of *Chalcophana* Chevrolat, 1836
- Monax* Gistel, 1848 [Cassidinae] – new synonym of *Basiprionota* Chevrolat, 1836
- Necyomantes* Gistel, 1848 [Cryptocephalinae: Clytrini] – synonym of *Smaragdina* Chevrolat, 1836
- Pachybrachia* Gistel, 1856 [Cryptocephalinae] – new synonym of *Pachybrachis* Chevrolat, 1836
- Paidaria* Gistel, 1848 [Eumolpinae] – unavailable name
- Pantryptes* Gistel, 1856 [Galerucinae: Alticini] – new synonym of *Altica* Geoffroy, 1762
- Pedapholus* Gistel, 1848 [Bruchinae] – synonym of *Caryedes* Hummel, 1827
- Phalantha* Gistel, 1848 [Cassidinae] – synonym of *Polychalca* Chevrolat, 1836
- Phenareta* Gistel, 1848 [Lamprosomatinae] – new synonym of *Lamprosome* Kirby, 1819
- Phyllis* Gistel, 1848 [Chrysomelinae] – synonym of *Calligrapha* Chevrolat, 1836
- Platyphora* Gistel, 1857 [Chrysomelinae] – valid genus name
- Plestya* Gistel, 1848 [Eumolpinae] – synonym of *Colaspidea* Laporte, 1833
- Poebia* Gistel, 1856 [Chrysomelinae] – new synonym of *Phaedon* Latreille, 1829
- Polisma* Gistel, 1848 [Eumolpinae] – new synonym of *Typophorus* Chevrolat, 1836
- Psyllides* Gistel, 1856 [Galerucinae: Alticini] – new synonym of *Psylliodes* Latreille, 1829
- Pusio* Gistel, 1848 [Galerucinae: Alticini] – new synonym of *Acrocrypta* Baly, 1862
- Scholastica* Gistel, 1848 [Galerucinae] – new synonym of *Agelastica* Chevrolat, 1836
- Scotias* Gistel, 1848 [Cassidinae] – new synonym of *Metazycera* Chevrolat, 1836
- Simicha* Gistel, 1848 [Cassidinae] – unavailable name
- Spermatophagus* Gistel, 1856 [Bruchinae] – synonym of *Spermophagus* Schönherr, 1833
- Sphaeratrix* Gistel, 1848 [Chrysomelinae] – valid genus name
- Sphaeroderma* Gistel, 1856 [Galerucinae: Alticini] – new synonym of *Sphaeroderma* Stephens, 1831
- Taxaris* Gistel, 1848 [Cryptocephalinae] – synonym of *Cryptocephalus* (sbg. *Disopus* Chevrolat, 1836)
- Theone* Gistel, 1857 [Galerucinae] – valid genus name
- Vervex* Gistel, 1848 [Cryptocephalinae: Clytrini] – new synonym of *Lachnaia* Chevrolat, 1836