

NOMENCLATURAL NOTES ON TENEBRIONID BEETLES OF THE PALAEARCTIC REGION (INSECTA: COLEOPTERA)

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Abstract.— This paper deals with nomenclatural problems in family-group and genus-group names in Palaearctic Tenebrionidae. Triboliini, Amarygmini and Mycetocharina were first made available in *Faunula monacensis cantharologica* (Gistel, 1848). Neopachypterina nomen novum is proposed as a replacement name for Pachypterina Medvedev, 1968 which is based on a junior homonym. The type genus of this subtribe is *Neopachypterus* nomen novum (replacement name for *Pachypterus* Lucas, 1846, not Swainson, 1839: Pisces). The available name *Imatismus* Dejean, 1834 is given priority over *Himatismus* Erichson, 1843 and *Curimosphena* Gebien, 1920. A list of new combinations for *Imatismus* is given. References are given to preserve the usage of Erodiini Bilberg, 1820, Epitragini Blanchard, 1845, Adesmiini Lacordaire, 1859, *Metaclisa* Jacquelin du Val, 1861 and *Pachyscelis* Solier, 1836 which are threatened by recently discovered older names.



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

INTRODUCTION

During the preparation of the Tenebrionidae section of the upcoming Catalogue of Palaearctic Coleoptera (Volume 5 – Tenebrionoidea), we have encountered nomenclatural problems in need of immediate attention. Some of these require applications to the International Commission on Zoological Nomenclature; these will be dealt with accordingly.

In this paper we first deal with nomenclatural notes that supplement the recent treatment of family-group names in Tenebrionidae (Bouchard *et al.* 2005). The second part deals with three problems with genus-

group names that result in several new combinations in one case and use of Article 23.9 (Reversal of Precedence) of the International Code of Zoological Nomenclature (ICZN 1999) to preserve a name in “prevailing usage” in the others.

FAMILY-GROUP NAMES

Change of author/year of publication

The following three family-group names published in Gistel's *Faunula monacensis cantharologica*

predate names currently used as valid. The author and/or date of publication need to be changed as follows.

Triboliini Gistel, 1848 (previously attributed to Mulsant, 1854).

Triboliidae Gistel, 1848a: [2]. Type genus: *Tribolium* MacLeay, 1825: 47.

Amarygmini Gistel, 1848 (previously attributed to Gistel, 1856).

Amarygmiidae Gistel, 1848b: [2]. Type genus: *Amarygmus* Dalman, 1823: 60.

Mycetocharina Gistel, 1848 (previously attributed to Mulsant, 1856/Gistel, 1856).

Mycetocharisidae Gistel, 1848b: [2]. Type genus *Mycetochara* Berthold, 1827: 371 (as *Mycetochara* Latreille, 1829).

Replacement names

The subtribe Pachypterina Medvedev, 1968, of the tribe Opatrini Brullé, 1832, is permanently invalid and therefore can no longer be used as valid because the type genus *Pachypterus* Lucas, 1846 is a junior homonym. We hereby propose the following replacement names:

Neopachypterina **nomen novum**. Comment: replacement name for Pachypterina Medvedev, 1968. Type genus: *Neopachypterus* **nomen novum** (replacement name for *Pachypterus* Lucas, 1846, not Swainson, 1839: Pisces).

Preservation of names in prevailing usage

Three family-group names currently used as valid are threatened by recently discovered older names. Because the older names were not used as valid after 1899 to our knowledge, we present supporting references to preserve the currently accepted names following the requirements of Article 23.9 (see Appendices 1–3).

Erodiini Billberg, 1820 **nomen protectum**

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

Cephacerini Rafinesque, 1815 **nomen oblitum**

Cephacera Rafinesque, 1815: 113. Type genus: *Cephacerus* Rafinesque, 1815: 113 (unjustified emendation of *Erodius* Fabricius, 1775).

Epitragini Blanchard, 1845 **nomen protectum**

Épitragites Blanchard, 1845: 16. Comment: name

made available under Art. 11.7.2. Type genus: *Epitragus* Latreille, 1802: 165.

Lygophilini Rafinesque, 1815 **nomen oblitum**

Lygophilia Rafinesque, 1815: 113. Type genus: *Lygophilus* Rafinesque, 1815: 114 (unjustified emendation of *Epitragus* Latreille, 1802).

Adesmiini Lacordaire, 1859 **nomen protectum**

Adesmiides Lacordaire, 1859: 22. Comment: name made available under Art. 11.7.2. Type genus: *Adesmia* Fischer von Waldheim, 1822: 153.

Megageniini Solier, 1851 **nomen oblitum**

Megagenianos Solier, 1851: 124. Comment: name made available under Art. 11.7.2. Type genus: *Megagenius* Solier, 1835: 513.

GENUS-GROUP NAMES

Imatismus Dejean – *Himatismus* Erichson – *Curimosphena* Gebien

Imatismus was established by Dejean, 1834: 202 who included only one valid species, [*Helops*] *fasciculatus* Fabricius, 1798. This species is the type of the genus by monotypy. *Curimosphena* Gebien, 1920 is currently considered a valid subgenus of *Himatismus* Erichson, 1843, and includes *Helops fasciculatus* Fabricius, 1798. The following nomenclatorial changes result from these facts: *Curimosphena* Gebien is a junior synonym with *Imatismus* Dejean; *Himatismus* Erichson is downgraded to subgenus of *Imatismus* Dejean, and the taxa previously placed in *Himatismus* Erichson, 1843 are transferred to *Imatismus* Dejean. *Imatismus* includes the following valid species-group taxa:

genus *Imatismus* Dejean, 1834: 202 type species *Helops fasciculatus* Fabricius, 1798

subgenus *Imatismus* Dejean, 1834: 202 type species *Helops fasciculatus* Fabricius, 1798

= *Curimosphena* Gebien, 1920: 43 type species *Himatismus villosus* Haag-Rutenberg, 1870, **syn. nov.**

abyssinicus (Koch, 1950) **comb. nov.** from *Himatismus*

angolanus (Koch, 1950) **comb. nov.** from *Himatismus*

arabicus (Kaszab, 1981) **comb. nov.** from *Himatismus*

barnardi (Koch, 1950) **comb. nov.** from *Himatismus*

baudii (Haag-Rutenberg, 1877) **comb. nov.** from *Himatismus*

- brevicornis* (Koch, 1962) **comb. nov.** from *Himatismus*
- buprestoides buprestoides* (Gerstaecker, 1854) **comb. nov.** from *Himatismus*
- buprestoides cylindricollis* (Koch, 1950) **comb. nov.** from *Himatismus*
- buprestoides strangulatus* (Koch, 1950) **comb. nov.** from *Himatismus*
- chinensis* (Reitter, 1916) **comb. nov.** from *Himatismus*
- congolanus* (Koch, 1950) **comb. nov.** from *Himatismus*
- dahomeyus* (Koch, 1950) **comb. nov.** from *Himatismus*
- dubia* (Haag-Rutenberg, 1870) **comb. nov.** from *Himatismus*
- epitragoides* (Haag-Rutenberg, 1870) **comb. nov.** from *Himatismus*
- eclavata* (Lesne, 1920) **comb. nov.** from *Himatismus*
- fasciculatus* (Fabricius, 1798)
- ferreirai* (Koch, 1952) **comb. nov.** from *Himatismus*
- gedyei* (Koch, 1950) **comb. nov.** from *Himatismus*
- gomesi* (Koch, 1950) **comb. nov.** from *Himatismus*
- haroldi* (Haag-Rutenberg, 1878) **comb. nov.** from *Himatismus*
- heterophthalmus heterophthalmus* (Chatanay, 1914) **comb. nov.** from *Himatismus*
- heterophthalmus transbechuanus* (Koch, 1950) **comb. nov.** from *Himatismus*
- incisa* (Gebien, 1937) **comb. nov.** from *Curimosphena*
- inconspecta* (Haag-Rutenberg, 1877) **comb. nov.** from *Himatismus*
- justi* (Fairmaire, 1880) **comb. nov.** from *Himatismus*
- lindneri* (Kolbe, 1883) **comb. nov.** from *Himatismus*
- luctuosus* (Fairmaire, 1895) **comb. nov.** from *Himatismus*
- ludwigi* (Carl, 1993) **comb. nov.** from *Himatismus*
- maculisparsa* (Lesne, 1920) **comb. nov.** from *Himatismus*
- marginatus* (Koch, 1950) **comb. nov.** from *Himatismus*
- muelleri* (Haag-Rutenberg, 1877) **comb. nov.** from *Himatismus*
- natalensis natalensis* (Baudi, 1875) **comb. nov.** from *Himatismus*
- natalensis pinheyi* (Koch, 1850) **comb. nov.** from *Himatismus*
- nigrosulcata* (Quedenfeld, 1885) **comb. nov.** from *Himatismus*
- occidentalis* (Lacordaire, 1876) **comb. nov.** from *Himatismus*
- ovipennis* (Koch, 1950) **comb. nov.** from *Himatismus*
- patruelis capensis* (Koch, 1950) **comb. nov.** from *Himatismus*
- patruelis patruelis* (Bertolini, 1849) **comb. nov.** from *Himatismus*
- pavesi* (Gestro, 1892) **comb. nov.** from *Himatismus*
- planicollis* (Kolbe, 1883) **comb. nov.** from *Himatismus*
- plebeja* (Fåhraeus, 1870) **comb. nov.** from *Himatismus*
- recticollis* (Koch, 1950) **comb. nov.** from *Himatismus*
- rileyi* (Koch, 1953) **comb. nov.** from *Himatismus*
- rhodesianus* (Koch, 1950) **comb. nov.** from *Himatismus*
- schoutedeni* (Koch, 1950) **comb. nov.** from *Himatismus*
- scorteccii* (Koch, 1962) **comb. nov.** from *Himatismus*
- semialatus* (Koch, 1950) **comb. nov.** from *Himatismus*
- seriata* (Gebien, 1937) **comb. nov.** from *Curimosphena*
- senegalensis ennediansis* (Español, 1973) **comb. nov.** from *Himatismus*
- senegalensis senegalensis* (Haag-Rutenberg, 1870) **comb. nov.** from *Himatismus*
- somalicus* (Koch, 1950) **comb. nov.** from *Himatismus*
- siffointei* (Ardoin, 1974) **comb. nov.** from *Himatismus*
- sublinearis* (Walker, 1871) **comb. nov.** from *Himatismus*
- terryi conioops* (Koch, 1950) **comb. nov.** from *Himatismus*
- terryi swazinus* (Koch, 1950) **comb. nov.** from *Himatismus*
- terryi terryi* (Koch, 1950) **comb. nov.** from *Himatismus*
- tessulatus* (Gerstaecker, 1854) **comb. nov.** from *Himatismus*
- transvaalensis rotundophthalmus* (Koch, 1950) **comb. nov.** from *Himatismus*
- transvaalensis transvaalensis* (Koch, 1950) **comb. nov.** from *Himatismus*
- trivialis septentrionalis* (Lesne, 1922) **comb. nov.** from *Himatismus*
- trivialis trivialis* (Gerstaecker, 1871) **comb. nov.** from *Himatismus*
- trochanterica* (Fairmaire, 1897) **comb. nov.** from *Himatismus*
- vaneyeni* (Ardoin, 1974) **comb. nov.** from *Himatismus*
- vansoni karrooensis* (Koch, 1950) **comb. nov.** from *Himatismus*
- vansoni vansoni* (Koch, 1950) **comb. nov.** from *Himatismus*

variegata karrooensis (Koch, 1950) **comb. nov.** from *Himatismus*
variegata vansoni (Koch, 1950) **comb. nov.** from *Himatismus*
variegata (Fabricius, 1781) **comb. nov.** from *Himatismus*
venzoi (Koch, 1962) **comb. nov.** from *Himatismus*
vestita Baudi di Selve, 1875) **comb. nov.** from *Himatismus*
villosus (Haag-Rutenberg, 1870) **comb. nov.** from *Himatismus*
whiteheadi (Ferrer, 1995) **comb. nov.** from *Himatismus*

subgenus *Himatismus* Erichson, 1843: 255 type species *Himatismus mandibularis* Erichson, 1843

cyphostethipes (Koch, 1950)
goetzelmanni (Chatanay, 1914)
mandibularis (Erichson, 1843)

Amarantha Motschulsky – *Metaclisa* Jacquelin du Val

The genus name *Amarantha* has been attributed to Faust, 1875: 249 in the Tenebrionidae literature because Faust was the first to provide a description for the genus. *Amarantha* Faust, 1875 is currently considered a junior synonym of *Metaclisa* Jacquelin du Val, 1861. However, Motschulsky (1860: 141) clearly made the name *Amarantha* available earlier by describing his new species *Amarantha viridis*. The name *Amarantha* Motschulsky, 1859 has not been used as valid in the literature to our knowledge and we therefore present supporting references to preserve the younger genus name *Metaclisa* Jacquelin du Val, 1861 which is currently used as valid (Appendix 4).

Brachyscelis Dejean – *Pachyscelis* Solier

Dejean (1834: 179) made the genus name *Brachyscelis* available by including three available species (*Pimelia metopotapha* Ménériés, 1832, *P. clavaria* Ménériés, 1832 and *P. mussiva* Ménériés, 1832). We hereby designate *Pimelia mussiva* Ménériés, 1832 as the type species of this genus. The three species included in *Brachyscelis* by Dejean are currently placed in *Pachyscelis* Solier, 1836. The older name *Brachyscelis* Dejean threatens the stability of the well-established name *Pachyscelis* Solier. In addition, the genus name *Brachyscelis* Germar, 1834 is currently used as valid in the family Chrysomelidae, giving even more reason to suppress Dejean's name. The name *Brachyscelis* Dejean, 1834 has not been used as valid in the literature to our knowledge and we

therefore present supporting references to preserve the younger genus name *Pachyscelis* Solier, 1836 which is currently used as valid (Appendix 5).

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Appendix 1.

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Appendix 2.

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