

SUBSTITUTE NAMES FOR FOUR PREOCCUPIED MILLIPEDE GENERA (DIPLOPODA)

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ABSTRACT: Four junior homonyms were detected among the millipedes genera and the following replacement names are proposed: Order Polydesmida: *Vigilia* nom. nov. pro *Curimagua* Hoffman, 1982; *Delirus* nom. nov. pro *Cylindromus* Loomis, 1977 and *Lippus* nom. nov. pro *Paratylopus* Korsos & Golovatch, 1989; Order Spirostreptida: *Umbraticus* nom. nov. pro *Tomogonus* Demange, 1971. Accordingly, new combinations are herein proposed for the species currently included in these genera respectively: *Vigilia granulata* (Hoffman, 1982) comb. nov.; *Delirus uniporus* (Loomis, 1977) comb. nov.; *Lippus strongylosomoides* (Korsos & Golovatch, 1989) comb. nov.; *Umbraticus implicatus* (Demange, 1978) comb. nov.; *Umbraticus intortus* (Demange, 1971) comb. nov.; *Umbraticus involutus* (Demange & Mauries, 1975) comb. nov.; *Umbraticus lamottei* (Demange & Mauries, 1975) comb. nov.; *Umbraticus schuberti* (Demange & Mauries, 1975) comb. nov. and *Umbraticus subgrundus* (Demange, 1971) comb. nov.

KEY WORDS: nomenclatural changes, homonymy, replacement names, Diplopoda.

Four proposed genus names in Diplopoda are nomenclaturally invalid, as the genus group names has already been used by a different authors in Araneae, Coleoptera and Mammalia. In accordance with Article 60 of the International Code of Zoological Nomenclature, I propose substitute names for these generic names.

TAXONOMY

Class DIPLOPODA

Order POLYDESMIDA

Family CHELODESMIDAE

Genus *VIGILIA* nom. nov.

Curimagua Hoffman, 1982. *Journal nat. Hist.* 16 (5): 645. (Diplopoda: Polydesmida: Leptodesmidea: Chelodesmoidea: Chelodesmidae: Chelodesminae: Batodesmini). Preoccupied by *Curimagua* Forster & Platnick, 1977. *Am. Mus. Novit.* No.2619: 24. (Arachnida: Araneae: Symphytognathidae).

Remarks: Hoffman (1982) proposed the generic name *Curimagua* as a genus of millipedes with the type species *Curimagua granulata* Hoffman, 1982 by original designation from Venezuela (Edo. Falcon, Serrania de San Luis, Curimagua valley) in Diplopoda. It is a valid genus name (Shelley et al., 2000). Unfortunately, the generic name was already preoccupied by Forster & Platnick (1977), who had proposed the genus

name *Curimagua* as a spider genus with the type species *Curimagua chapmani* Forster & Platnick, 1977 in Araneae. Thus, the genus group name *Curimagua* Hoffman, 1982 is a junior homonym of the generic name *Curimagua* Forster & Platnick, 1977. So I propose a new replacement name ***Vigilia* nom. nov.** for *Curimagua* Hoffman, 1982. The name is from the Latin word “vigilia” (meaning “watch, watchfulness” in English).

Summary of nomenclatural changes:

***Vigilia* nom. nov.**

pro *Curimagua* Hoffman, 1982 (non Forster & Platnick, 1977)

***Vigilia granulata* (Hoffman, 1982) comb. nov.**

from *Curimagua granulata* Hoffman, 1982

Genus *DELIRUS* nom. nov.

Cylindromus Loomis, 1977. Flo. Ent. 60: 21. (Diplopoda: Polydesmida: Leptodesmidea: Chelodesmoidea: Chelodesmidae: Chelodesminae: tribe uncertain). Preoccupied by *Cylindromus* Aurivillius, 1891. Nouv. Arch. Mus. Paris, (3) 7, 213. (Insecta: Coleoptera: Curculionoidea: Curculionidae).

Remarks: The name *Cylindromus* was initially introduced by Aurivillius, 1891 for a beetle genus (with the type species *Cylindromus plumbeus* Aurivillius, 1891 in Coleoptera. It is still used as a valid genus name (Alonso-Zarazaga & Lyal, 1999). Subsequently, Loomis, 1977 described a new millipede genus (with the type species *Cylindromus uniporus* Loomis, 1977 by original designation from Puerto Rico) under the same generic name. It is a valid genus name. Thus, the genus *Cylindromus* Loomis, 1977 is a junior homonym of the genus *Cylindromus* Aurivillius, 1891. So I propose a new replacement name ***Delirus* nom. nov.** for *Cylindromus* Loomis, 1977. The name is from the Latin word “delirus” (meaning “crazy” in English).

Summary of nomenclatural changes:

***Delirus* nom. nov.**

pro *Cylindromus* Loomis, 1977 (non Aurivillius, 1891)

***Delirus uniporus* (Loomis, 1977) comb. nov.**

from *Cylindromus uniporus* Loomis, 1977

Family PARADOXOSOMATIDAE

Genus *LIPPUS* nom. nov.

Paratylopus Korsos & Golovatch, 1989. Acta Zool. Hung. 35 (3-4): 215. (Diplopoda: Polydesmida: Strongylosomatidea: Strongylosomatidea: Paradoxosomatidae: Paradoxosomatinae: Sulciferini). Preoccupied by *Paratylopus* Matthew, 1904. Bull. Amer. Mus. nat. Hist., 20, 211. (Mammalia: Artiodactyla: Ruminantia: Tylopoda: Camelidae: Poebrotheriinae).

Remarks: The fossil mammal generic name *Paratylopus* was proposed by Matthew, 1904 with the type species *Miolabis primaevus* Matthew, 1904 in Mammalia. Later, the genus *Paratylopus* was described by Korsos & Golovatch, 1989 for millipedes with the type species *Paratylopus strongylosomoides* Korsos & Golovatch, 1989 by original designation from Vietnam (Prov. Vinh phu, Tam dao, north of the village). It is a valid genus name. However, the name *Paratylopus* Korsos & Golovatch, 1989 is invalid under the law of homonymy, being a junior homonym of *Paratylopus* Matthew, 1904. So I propose to substitute the junior homonym name *Paratylopus* Korsos & Golovatch, 1989 for the nomen novum *Lippus*. The name is from the Latin word “lippus” (meaning “sleepy” in English).

Summary of nomenclatural changes:

Lippus **nom. nov.**

pro *Paratylopus* Korsos & Golovatch, 1989 (non Matthew, 1904)

Lippus strongylosomoides (Korsos & Golovatch, 1989) **comb. nov.**

from *Paratylopus strongylosomoides* Korsos & Golovatch, 1989

Order SPIROSTREPTIDA

Family SPIROSTREPTIDAE

Genus *UMBRATICUS* **nom. nov.**

Tomogonus Demange, 1971. Mem. Inst. fond. Afr. noire No.86: 208. (Diplopoda: Spirostreptida: Spirostreptidea: Spirostreptoidea: Spirostreptidae: Spirostreptinae: Spirostreptini). Preoccupied by *Tomogonus* d'Orbigny, 1904. Ann. Mus. Stor. nat. Genova, 41, 254. (Insecta: Coleoptera: Scarabaeoidea: Scarabaeidae: Coprinae: Onthophagini).

Remarks: Firstly, the African beetle genus *Tomogonus* was established by d'Orbigny, 1904 with the type species *Tomogonus crassus* d'Orbigny, 1904 in Coleoptera. It is still used as a valid genus name (Mathison et al., 2008). Subsequently, the generic name *Tomogonus* was proposed by Demange, 1971 for a millipede genus with the type species *Tomogonus intortus* Demange, 1971 by original designation from Sierra Leone (Loma Mountains). It is a valid genus name (Shelley et al., 2000). However, the name *Tomogonus* Demange, 1971 is invalid under the law of homonymy, being a junior homonym of *Tomogonus* d'Orbigny, 1904. So I propose to substitute the junior homonym name *Tomogonus* Demange, 1971 for the new name *Umbraticus* **nom. nov.**. The name is from the Latin word “umbraticus” (meaning “like shadow or like umbra” in English).

Summary of nomenclatural changes:

Umbraticus **nom. nov.**

pro *Tomogonus* Demange, 1971 (non Orbigny, 1904)

- Umbraticus implicatus* (Demange, 1978) **comb. nov.**
from *Tomogonus implicatus* (Demange, 1978)
- Umbraticus intortus* (Demange, 1971) **comb. nov.**
from *Tomogonus intortus* Demange, 1971
- Umbraticus involutus* (Demange & Mauries, 1975) **comb. nov.**
from *Tomogonus involutus* (Demange & Mauries, 1975)
- Umbraticus lamottei* (Demange & Mauries, 1975) **comb. nov.**
from *Tomogonus lamottei* Demange & Mauries, 1975
- Umbraticus schuberti* (Demange & Mauries, 1975) **comb. nov.**
from *Tomogonus schuberti* (Demange & Mauries, 1975)
- Umbraticus subgrundus* (Demange, 1971) **comb. nov.**
from *Tomogonus subgrundus* Demange, 1971

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