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## Homonymy, Synonymy, and New Combinations in the Miridae (Heteroptera)

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### ABSTRACT

Replacement names are proposed for newly discovered homonyms. Several genera are placed in synonymy, some genera are given new tribal as-

signments, and some species are transferred to other genera. The type species of *Brasiliocarnus* Carvalho and *Cleotomiris* Schuh are fixed.

### INTRODUCTION

J. C. M. Carvalho, in his monumental world catalog of Miridae (1957–1960), noticed many homonymous species-group names and replaced the junior homonyms by junior synonyms or new replacement names. However, in some cases such corrections were not made or the earliest names were not used for replacement. Some homonyms not replaced by Carvalho were placed in synonymy or replaced in later works. Here we attempt an overview of the remaining cases not dealt with by Carvalho. Two new patronymics are proposed for the late Dr. Carvalho in recognition of his outstanding contributions to taxonomy of the Miridae. Replacement

names, new synonymy, and revised subfamily and tribal assignments are also proposed for taxa published subsequent to the Carvalho Catalogue.

### REPLACEMENT GENUS-GROUP NAMES

*Cearamiris* nom. n. is proposed for *Cearana* Carvalho and Ferreira, 1974 [Rev. Brasileira Biol. 33 (suppl.): 133], a junior homonym of *Cearana* Jordan and Brauner, 1908 [Smithson. Misc. Collect. 52(1792): 27], Pisces. Masculine.

*Candidomiris* nom. n. is proposed for

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*Kraussella* Carvalho, 1987 [Rev. Brasileira Biol. 47: 180], a junior homonym of *Kraussella* Bolivar, 1909 [Bol. Soc. Esp. Hist. Nat. 9: 292], Orthoptera. Masculine.

*Josifovolygus* nom. n. is proposed for *Tricholygus* Josifov, 1992 [Reichenbachia 29: 108], a junior homonym of *Tricholygus* Poppius, 1910 [Swedish Zool. Exped. Kilimandjaro 2:47], Miridae. Masculine.

#### REPLACEMENT SPECIES-GROUP NAMES

*Adelphocoris fijiensis* nom. n. is proposed for *A. lateralis* Reuter, 1908 [Ann. Naturhist. Mus. Wien 22: 184] from Fiji Is., a junior secondary homonym of *Phytocoris lateralis* Fallén, 1829 [Hem. Suec.: 88] = *Adelphocoris seticornis* (Fabricius, 1775), Palearctic.

*Adelphocoris sichuanus* nom. n. is proposed for *A. apicalis* Reuter, 1906 [Annu. Mus. Zool. St. Petersburg 10: 9, 13] from China, a junior secondary homonym of *Phytocoris apicalis* Hahn, 1833 [Wanz. Ins. 1: 220] = *Adelphocoris seticornis* (Fabricius, 1775), Palearctic.

*Calocoris poppiusi* nom. n. is proposed for *Calocoris caucasicus* Poppius, 1912, *Creontiades cuacasicus* Poppius, 1912 [Ofv. Finsk. Vet. Soc. Forh. 54A(29): 6], a junior secondary homonym of *Calocoris caucasicus* Poppius, 1912 [Ofv. Finsk. Vet. Soc. Forh. 54A(29): 7], both species from the Caucasus.

*Campylomma nigrifemur* Wagner, 1975 [Not. Entomol. 61: 11] is the valid name for *C. pallida* (Wagner, 1957), *Sthenaropsis pallida* Wagner, 1957 [Jahresh. Ver. Vaterl. Naturkd. Wurttemberg 112: 94] from the southern Palearctic, a junior secondary homonym of *Campylomma pallida* Usinger, 1946 [Bull. B. P. Bishop Mus. 189: 89], from Guam.

*Campylomma odhiamboi* nom. n. is proposed for *Campylomma punctipes* (Odhiambo, 1959) *Sthenarus punctipes* Odhiambo, 1959 [Ann. Mag. Nat. Hist. (13)2: 435], Uganda, a junior secondary homonym of *Capsus punctipes* Herrich-Schaeffer, 1835 [Nomencl. Entomol. 1: 150] = ? *Campylomma verbasci* (Meyer-Dur, 1843), Palearctic.

*Deraeocoris apicatus* nom. n. is proposed for *D. apicalis* Poppius, 1915 [Arch. Naturg. 80A(8): 40], Taiwan, a junior secondary homonym of *Capsus apicalis* Signoret, 1865 [Ann. Soc. Entomol. France, ser. 4, 5: 125]

= *Deraeocoris cordiger* (Hahn, 1834), Palearctic.

*Deraeocoris brunneolus* nom. n. is proposed for *D. brunneus* (Poppius, 1915), *Cimicicapsus brunneus* Poppius, 1915 [Ann. Mus. Natl. Hung. 13: 84] from Australia, a junior secondary homonym of *D. brunneus* Poppius, 1912 [Acta Soc. Sci. Fenn. 41(3): 120, 126], Madagascar.

*Deraeocoris darjeelingensis* nom. n. is proposed for *D. discoidalis* Poppius, 1915 [Ann. Mus. Natl. Hungarici 13: 80] from India, a junior secondary homonym of *Lamprolygus signatus* var. *discoidalis* Poppius, 1912 [Acta Soc. Sci. Fenn. 41(3): 113] = *Deraeocoris discoidalis* (Poppius, 1912), tropical Africa.

*Deraeocoris discoidalis* (Poppius, 1912), stat. n., *Lamprolygus signatus* var. *discoidalis* Poppius, 1912 [Acta Soc. Sci. Fenn. 41(3): 113] is the valid name for *D. signatoides* Carvalho, 1957 [Arq. Mus. Nac. 44: 80] from tropical Africa. Note: In renaming the preoccupied *D. signatus* (Poppius, 1912), Carvalho (1957: 80) gave it the new name *D. signatoides* instead of using the varietal name *discoidalis*.

*Halticus spegazzinii* Berg, 1883 [An. Soc. Cienc. Argentina 9: 74] is the valid name for *H. pygmaeus* (Berg, 1879), *Capsus pygmaeus* Berg, 1879 [Hem. Argentina, p. 290] from Argentina, a junior primary homonym of *C. pygmaeus* Zetterstedt, 1838 [Ins. Lapp., p. 279] = *Tytthus pygmaeus* (Zetterstedt, 1838), Palearctic.

*Heterocordylus italicus* nom. n. is proposed for *H. flavipes* Wagner, 1953 [Ann. Naturhist. Mus. Wien 59: 296] from Italy, a junior primary homonym of *H. flavipes* Nitobe, 1906 [Insect World, Gifu, 10: 19], Japan, nomen dubium. Note. In Carvalho (1958) *flavipes* Nitobe is given as *flaviceps* [sic] Matsumura.

*Hyalopeplus lineifer* (Walker, 1873), *Capsus lineifer* Walker, 1873 [Cat. Heteroptera Br. Mus. 6: 122] is the valid name for *H. vitripennis* (Stål, 1855), *Capsus vitripennis* Stål, 1855 [Ofv. Finsk. Vet. Soc. Forh., 12(4): 186] from Oriental and Australian Regions, a junior primary homonym of *Capsus vitripennis* Say, 1832 [Descript. Het. Hem. N. Am.: 24] = *Hyaliodes vitripennis* (Say, 1832), North America.

*Lygocoris sinicus* nom. n. is proposed for *Lygocoris (Apolygus) pubescens* Zheng and Wang, 1983, *Lygus (Apolygus) pubescens*

Zheng and Wang, 1983 [Entomotaxonomia 5: 48, 57], from China, a junior primary homonym of *Lygus pratensis pubescens* Reuter, 1912 [Ofv. Finsk. Vet. Soc. Forh. 54A(7): 37], = *Lygus rugulipennis* Poppius, 1911, from the Palearctic.

*Lygocoris wangii* nom. n. is proposed for *Lygocoris (Apolygus) signatus* Zheng and Wang, 1983, *Lygus (Apolygus) signatus* Zheng and Wang, 1983 [Entomotaxonomia 5: 48, 56], from China, a junior primary homonym of *Lygus* [now *Pinalitus*] *cervinus* form *signata* Stichel, 1930 [Illstr. Bestimmungstabellen Deut. Wanzen 6, 7: 181], from Europe.

*Lygocoris zhengi* nom. n. is proposed for *Lygocoris (Apolygus) marginatus* Zheng and Wang, 1983, *Lygus (Apolygus) marginatus* Zheng and Wang, 1983 [Entomotaxonomia 5: 48, 56], from China, a junior secondary homonym of *Phytocoris marginatus* Zetterstedt, 1838 [Insecta Lapponica descripta 1: 272], = *Lygocoris rugicollis* (Fallen, 1807), from the Palearctic.

*Orthotylus costai* nom. n. is proposed for *Orthotylus clarensis* (Carvalho, 1990), *Melanotrichus clarensis* Carvalho, 1990 [An. Acad. Brail. Cienc. 62: 395], a junior secondary homonym of *Orthotylus clarensis* Carvalho and Costa, 1990 [An. Acad. Brasi. Cienc. 62: 310], both from Brazil [see discussion of *Orthotylus* under New Combinations for this and other species of *Orthotylus*].

*Orthotylus harryi* nom. n. is proposed for *Orthotylus pallens* (Knight, 1968), *Melanotrichus pallens* Knight, 1968 [Brigham Young Univ. Sci. Bull., Biol. Ser., 11(3): 125], from western USA, a junior secondary homonym of *Orthotylus pallens* (Matsumura, 1911), *Calocoris pallens* Matsumura, 1911 [J. Coll. Agric. Tokyo Imp. Univ., Sapporo 4: 39], from Sakhalin Island.

*Orthotylus hazeltoni* nom. n. is proposed for *Orthotylus uniformis* (Knight, 1968), *Melanotrichus uniformis* Knight, 1968 [Brigham Young Univ. Sci. Bull., Biol. Ser., 11(3): 128], from western USA, a junior secondary homonym of *Orthotylus uniformis* Van Duzee, 1916 [Proc. California Acad. Sci., 4th ser., 6(5): 100], from California.

*Orthotylus leonardi* nom. n. is proposed for *Orthotylus elongatus* (Kelton, 1980) *Melanotrichus elongatus*, Kelton [Can. Entomol. 112: 338], from Canada, a junior secondary

homonym of *Orthotylus elongatus* Wagner, 1965 [Reichenbachia 6: 67], from Cyprus.

*Orthotylus subtropicalis* nom. n. is proposed for *Orthotylus missionensis* (Carvalho and Carpintero, 1986), *Melanotrichus missionensis* Carvalho and Carpintero, 1986 [Rev. Brasileira Biol. 46: 619], a junior secondary homonym of *Orthotylus missionensis* Carvalho 1985 [Rev. Brasileira Biol. 45: 280], both from Argentina.

*Orthotylus josei* nom. n. is proposed for *Orthotylus cuneatus* Carvalho, 1985 [Rev. Brasileira Biol. 45: 277], from Argentina, junior primary homonym of *Orthotylus cuneatus* Van Duzee, 1916 [Proc. California Acad. Sci. (4)6: 117], from California.

*Phoenicocoris knightii* nom. n. is proposed for *Phoenicocoris pini* Knight, 1968, *Lepidopsallus pini* Knight, 1968 [Brigham Young Univ. Sci. Bull., Biol. Ser., 9: 53; see Stonedahl, 1990, Bull. Amer. Mus. Nat. Hist. 198: 14], from western USA, a junior secondary homonym of *Atractotomus pini* Fieber, 1864 [Wien. Entomol. Monatschr. 8: 224], = *Phoenicocoris obscurellus* (Fallen, 1829), from the Palearctic.

*Phytocoris femoratus* nom. n. is proposed for *P. femoralis* Fieber, 1861 [Eur. Hem.: 260] from the Mediterranean, a junior primary homonym of *P. femoralis* Lucas, 1849 [Expl. Alg.: 82] = *Calocoris fulvomaculatus* (De Geer, 1773), Palearctic.

*Phytocoris jorigtooi* nom. n. is proposed for *Phytocoris desertorum* Nonnaizab and Jorigtoo, 1992 [Zool. Res. 13: 318, 322], from China, a primary homonym of *Phytocoris dersertorum* Reuter, 1900 [Ofv. Finsk. Vet. Soc. Forh. B 42: 251], from North Africa.

*Phytocoris leucopterus* nom. n. is proposed for *P. albipennis* Reuter, 1904 [Ofv. Finsk. Vet. Soc. Forh., 47(4): 3] from Israel, a junior primary homonym of *P. albipennis* Fallén, 1829 [Hem. Suec., p. 107] = *Plagiognathus albipennis* (Fallén, 1829), Holarctic.

*Phytocoris marmoratus* Blanchard, 1852, in Gay [Hist. Fis. Polit. Chile, 7: 194] is the valid name for *P. chilensis* Carvalho, 1955 [Rev. Chilena Entomol. 4: 225] from Chile. Note: In renaming the preoccupied *P. adspersus* Spinola, 1852, Carvalho (1955) gave it a new name *P. chilensis*, instead of using the synonymous name *P. marmoratus*.

*Phytocoris nonnaizabi* nom. n. is proposed for *Phytocoris procerus* Nonnaizab and Jo-

rigtoo, 1992 [Zool. Res. 13: 314, 321], from China, a junior primary homonym of *Phytocoris procerus* Linnauvori, 1975 [Acta Zool. Fenn. 12: 21], from Ethiopia.

*Phytocoris raunoi* nom. n. is proposed for *Phytocoris irroratus* Linnauvori, 1965 [Acta Entomol. Fenn. 21: 51], from Turkey, a junior primary homonym of *Phytocoris irroratus* Blanchard, 1852, Hemipteros, in Gay [Hist. Fis. Polit. Chile 7: 193], from Chile.

*Phytocoris somersojae* nom. n. is proposed for *Phytocoris artemisiae* Linnauvori, 1984 [Acta Entomol. Fennica 44: 22], from Iraq, a junior primary homonym of *P. artemisiae* Schilling, 1837 [Uebers. Arbeit. Verand. Schles. Ges. Vaterl. Kultur. 1836: 84] = *Lugus gemellatus* (Herrick-Schaeffer, 1835), Palearctic.

*Phytocoris stonedahli* nom. n. is proposed for *Phytocoris hispidus* Stonedahl, 1988 [Bull. Am. Mus. Nat. Hist. 188: 144], from southwestern US, a junior primary homonym of *Phytocoris hispidus* Linnauvori, 1986 [Fauna Saudi Arabia 8: 135], from Saudi Arabia.

*Polymerus vegatus* (Van Duzee, 1933) *Poeциloscytus vegatus* Van Duzee, 1933 [Proc. California Acad. Sci., ser. 4, 21: 28] is the valid name for *P. nigritulus* (Walker, 1873) *Capsus nigritulus* Walker, 1873 [Cat. Het. Br. Mus., 6: 112] from Galapagos Is., a junior primary homonym of *Capsus nigritulus* Zetterstedt, 1838 [Ins. Lapp.: 279] = *Mecomma ambulans* (Fallén, 1807), Palearctic.

*Psallus michaili* nom. n. is proposed for *Psallus niger* Josifov, 1992 [Reichenbachia 29: 113], from Korea, a junior primary homonym of *Psallus graminicola* f. *niger* Stichel, 1956 [Illustr. Bestimmungstabellen Deut. Wanzen 16: 283], from the northern Palearctic.

*Saturniomiris lugens* (Walker, 1873), *Capsus lugens* Walker, 1873 [Cat. Het. Br. Mus., 6: 199] is the valid name for *S. tristis* (Walker, 1873), *Capsus tristis* Walker, 1873 [Cat. Het. Br. Mus., 6: 125] from New Guinea, a junior primary homonym of *Capsus tristis* Scholtz, 1847 [Arb. Veränd. Schles. Ges. Vaterl. Kult., 1846: 137] from Poland, a nomen dubium. Note: *Capsus lugens*, a new replacement name proposed by Walker himself, was overlooked in later works.

We do not propose new replacement names for two junior primary homonyms:

*Capsus punctipes* Mulsant et Rey, 1852 [Ann. Soc. Linn. Lyon 1850–1852: 123] from France, a nomen dubium, is a primary homonym of *C. punctipes* Herrich-Schaeffer, 1835 [Nomencr. Entomol. 1: 150] = ? *Campyloma verbasci* (Meyer-Dur, 1843).

*Polymerus pallescens* (Walker, 1873), *Capsus pallescens* Walker, 1873 [Cat. Het. Br. Mus., 6: 94] from Canada is a junior primary homonym of *Capsus pallescens* Herrich-Schaeffer, 1835 [Nomencr. Entomol. 1: 49] from Europe, a nomen dubium, but as *P. pallescens*, known from original description only, is probably identical with some other species of *Polymerus* from Canada, we regard renaming to be superfluous.

## NEW AND REVISED SYNONYMY AND REVISED STATUS

*Aoplonema* Knight, 1928

*Aoplonema* Knight, 1928: 177. revised status

*Aoplonema* Knight, proposed as a subgenus, has subsequently been treated as such. We elevated the group to generic status on the basis of the obvious differences between the species placed in it and *Hadroneura* Uhler, including the structure of the male genitalia and other structural features. Included species are: *echinatum*, Gruetzmacher and Schaffner, 1977; *festivum* Van Duzee, 1910; *princeps* Uhler, 1894; *uhleri* Van Duzee, 1928; and *uniforme* Knight, 1928.

*Deraeocoris* Kirschbaum, 1856

*Deraeocoris* Kirschbaum, 1856: 191, 208.

*Cimicicapsus* Poppius, 1915: 41. new synonym

Type specimens of all three species placed by Poppius in *Cimicicapsus* were obtained from the Zoological Museum in Helsinki for examination (the holotype of *C. brunneus* Poppius is badly damaged and represented by fragments only). These species form a natural group that also includes *Deraeocoris koreanus* Linnauvori, as characterized by the dense vestiture of the hemelytra and some other characters. Because they are so similar to representatives of the large and variable genus *Deraeocoris*, recognition of a separate genus for them is unwarranted. The new combinations created by this action are: *D.*

*brunneus* (Poppius, 1915), *D. elongatus* (Poppius, 1915), and *D. parviceps* (Poppius, 1915). The first of these names becomes a junior secondary homonym, and a new replacement name, *Deraeocoris brunneolus*, is proposed for it.

*Leptidolon* Reuter, 1904

*Leptidolon* Reuter, 1904: 14. revised synonym

Carvalho (1952: 65) synonymized *Leptidolon* Reuter with *Plagiognathus* Fieber without comment. Based on the known distribution of *Plagiognathus*, there is every reason to believe that the similarity between *Leptidolon vittipenne* Reuter and *Plagiognathus* spp. is superficial, and we are therefore removing the genus from synonymy.

*Platyscytus* Reuter, 1907

*Platyscytus* Reuter, 1907: 16.

*Amazonophilus* Carvalho and Costa, 1992: 203. new synonym

Carvalho and Costa (1992) described *Amazonophilus* with the single included species *A. bipunctatus* Carvalho and Costa. Judging from the habitus figure and illustrations of the male genitalia, *bipunctatus* is a species of *Platyscytus*, and we are so treating it.

*Rhinacloa* Reuter, 1876

*Rhinacloa* Reuter, 1876: 88.

*Sinopmiris* Carvalho, 1991: 92. new synonym

Carvalho (1991) described *Sinopmiris* with the single included species *S. clarus* Carvalho. Judging from the description and the figures of the male genitalia, this is a species of *Rhinacloa* Reuter, and we are so treating it.

*Sejanus* Distant, 1910

*Sejanus* Distant, 1910: 20.

*Eosthenarus* Poppius, 1915: 72 (n. gen.). revised synonym

Poppius (1915) described the genus *Eosthenarus* from Taiwan, designating *E. crassicornis* Poppius, 1915, as the type species. Carvalho (1952) placed *Eosthenarus* in synonymy with *Chlamydatus* Curtis. Our examination of the type specimen of *crassicornis* in the Zoological Museum, Helsinki, in-

dicates that it is actually a species of *Sejanus* Distant. Thus, *Eosthenarus* becomes a junior synonym of *Sejanus*.

Examination of the type specimens of *Sthenarus interruptus* Reuter, 1906 [Annu. Mus. Zool. St. Petersburg 10: 79] and *S. niveoarcuatus* Reuter, 1906 [Annu. Mus. Zool. St. Petersburg 10: 80] indicates that they belong to *Sejanus*, new combinations.

*Xenofulvius* Bergroth, 1920

*Xenofulvius* Bergroth, 1920: 79. revised synonym

Carvalho (1952: 76) synonymized *Xenofulvius* Bergroth with *Ceratocapsus* Reuter without comment. Based on the known distribution of *Ceratocapsus*, there is every reason to believe that the similarity between *Xenofulvius firmicornis* Bergroth and *Ceratocapsus* spp. is superficial, and we are therefore removing the genus from synonymy.

*Atomoscelis modestus* (Van Duzee)

*Tuponia modesta* Van Duzee, 1914: 30 (n. sp.).

*Atomoscelis modestus*: Van Duzee, 1917: 414 (n. comb.).

*Mineocapsus mineatus* Knight, 1972: 425 (n. sp.). new synonym

Van Duzee (1914) described *Atomoscelis modestus* from California. We have examined many specimens identified as *modestus* and compared this species with *A. onustus* Fieber, 1861 (type species of *Atomoscelis*) from the Palearctic; the two are clearly very closely related. Knight (1972) described *Mineocapsus mineatus* on the basis of specimens from Utah. They are clearly conspecific with specimens from Knight's collection identified as *modestus*. We are therefore treating *mineatus* as a junior synonym. *Mineocapsus* Knight, 1972, becomes a junior synonym of *Atomoscelis* Reuter, 1875, new synonym.

*Opuna annulata* (Knight)

*Campylomma annulatum* Knight, 1935: 197 (n. sp.).

*Paragrmus annulicornis* Poppius, 1911: 35 (n. sp.). new synonym

*Paragrmus ceylonensis* Carvalho, 1955: 225 (n. name). new synonym

*Paragrmus lindbergi* Kiritshenko, 1961: 444 (unnecessary new name). **new synonym**

*Reuteriola annulicornis* Hsiao in Hsiao and Meng, 1963: 445, 449. **new synonym**

*Opuna annulatus*: Schuh, 1984: 401 (n. comb.).

Comparison of specimens of *Opuna annulata* (Knight) with the original description of *Paragrmus annulicornis* Poppius, (= *P. ceylonensis* Carvalho, 1955) indicates that the two are synonyms. Because *annulicornis* Poppius was replaced as a junior secondary homonym before 1960, this name cannot be used, and, *annulata* Knight becomes the valid name for this species. Because *annulicornis* Poppius is the type species of the genus, *Paragrmus* Poppius, 1911, that genus becomes a junior synonym of *Opuna* Kirkaldy, 1902, **new synonym**.

Evaluation of the original description of *Reuteriola annulicornis* Hsiao, 1963, indicates that this taxon is also synonymous with *annulata* Knight. Consequently, *Reuteriola* Hsiao becomes a junior synonym of *Opuna* **new synonym**.

#### *Parapsallus vitellinus* (Scholtz)

*Capsus vitellinus* Scholtz, 1847: 130 (n. sp.).

*Parapsallus vitellinus*: Kerzhner, 1964: 760 (n. comb.).

*Parapsallus wagneri* Rozhkov and Volkova, 1966: 59 (n. sp.). **new synonym**

Rozhkov and Volkova (1966) under the heading “*Parapsallus wagneri* Kulik, sp. n. (in lit.)” published a short description and figures of a mirid common on *Larix sibirica* in East Siberia (Cisbaikalia). The authors stated that the species was determined as new by S. A. Kulik and his identification confirmed by E. Wagner, although Kulik in his later publications on Siberian Heteroptera used the name *P. vitellinus*, and not *P. wagneri*. Judging from some of the characters mentioned (two cells of membrane, four segments of antennae) the description of *P. wagneri* was made by Rozhkov and Volkova and the name should be credited to them. In our opinion, the Siberian specimens of *Parapsallus* do not differ from European specimens, and the name *P. wagneri* should be placed in synonymy of the widely distributed *P. vitellinus*.

#### *Phyllopidea picta* (Uhler)

*Bolteria picta* Uhler, 1893: 373 (n. sp., desc.).

*Europiella concinna* Reuter, 1909: 84 (n. sp., desc.). **new synonym**

*Hyoidea picta* Reuter, 1909: 72 (note).

*Bolteria picta hirta* Van Duzee, 1916: 244 (n. var.). **new synonym**

*Phyllopidea hirta* Knight, 1920: 127 (n. comb., note).

*Phyllopidea picta* Knight, 1920: 127 (note, n. comb., lectotype designation).

*Phyllopidea utahensis* Knight, 1968: 32 (n. sp., desc., host). **new synonym**

Lectotype: ♀, Am. Fork, Ut., 22.6.91; deposited in the USNM.

Lectotype of Synonym: *Bolteria picta hirta* Van Duzee: ♀, G. Alpine Cr., 7-5-15, Tahoe Cal., E. P. Van Duzee Collector; deposited in the CAS.

Holotypes of Synonyms: *Europiella concinna* Reuter: ♀, Claremont, Cal., Baker; deposited in the Helsinki Museum. *Phyllopidea utahensis* Knight: ♂, Scipio, UTAH, June 29, 1965, H. H. Knight; deposited in the USNM.

Discussion: Comparison of the lectotypes of *Bolteria picta* Uhler, *Bolteria picta hirta* Van Duzee, and the holotypes of *Europiella concinna* Reuter and *Phyllopidea utahensis* Knight indicates that all four are conspecific; *picta* has priority.

Van Duzee described the subspecies *picta hirta* from “eight female examples beaten from sagebrush (*Artemesia*) [sic] on the shore of Fallen Leaf Lake near the Lodge on July 5.” We received on loan one specimen labeled as the lectotype and nine additional specimens labeled as paratypes from the California Academy of Sciences. Despite the labels, there is apparently no published lectotype designation for this taxon, so we have affixed lectotype and paralectotype labels to eight of the specimens.

#### *Pseudoloxops coccineus* (Meyer-Dur, 1843)

*Capsus coccineus* Meyer-Dur, 1843: 75.

*Capsus miniatus* Parfitt, 1865: 130. **new synonym**

*Capsus miniatus* Parfitt was described from one specimen collected at Exeter (England). The name is a junior primary homonym of *C. miniatus* Herrich-Schaeffer, 1838 [Wanz.]

Ins. 4: 34] which is a junior synonym of *Deraeocoris schach* (Fabricius, 1781). The above synonymy is clear from Parfitt's description and was apparently known to British authors because Saunders (1892: 294) cited "Exeter, Parfitt" in distribution of "*Loxops coccineus*." However, we are unable to find any mention of Parfitt's name in synonymy and are forced to establish the synonymy as new.

#### NEW COMBINATIONS

*Badezorus annulicornis* (Reuter),  
new combination

*Plagiognathus annulicornis* Reuter, 1879: 298 (n. sp.).

*Pararambus subsinuatus* Poppius, 1912: 25 (n. sp.).

*Pararambus annulicornis*: Kiritshenko, 1926: 226 (n. comb., syn.).

Our examination of the male genitalia of *Plagiognathus annulicornis* Reuter indicates that the vesica has a very long single terminal spine of the type found in *Badezorus signaticornis* (Reuter, 1904). The species is closely related if not synonymous with *Chamaepsallus tomentosus* (Reuter, 1904), which was transferred to *Badezorus* by Linnauvori (1993a).

*Michailocoris chinensis* (Hsiao),  
new combination

*Aretas chinensis* Hsiao, 1941: 245 (n. sp.).

*Pseudoloxops chinensis*: Carvalho, 1958: 127 (n. comb.).

The only material mentioned in the original description of *A. chinensis* was a female holotype, but male genitalia were figured. In the U.S. National Museum the species is represented by one male labeled by Hsiao himself as "allotype" but possibly being the holotype. Examination of this specimen shows that the species was wrongly placed by Hsiao in the genus *Aretas* Distant (junior synonym of *Pseudoloxops* Kirkaldy), Orthotylinae, and belongs in fact to the genus *Michailocoris* Stys, Bryocorinae, Eccritotarsini. *Michailocoris chinensis* is similar to *M. josifovi* Stys (Korea, Far East of Russia), but differs from it in having relatively larger eyes and in having the coloration of the clavus in the male similar to that in the *M. josifovi* female.

#### *Orthotylus* Fieber, 1858

*Orthotylus* Fieber, 1858: 315.

*Melanotrichus* Reuter, 1875: 151.

*Melanotrichus* Reuter has been treated as a subgenus of *Orthotylus* or as a genus, depending on the author. It has also been treated as a synonym of *Orthotylus*. Several authors have recently described new species of Orthotylinae in *Melanotrichus*. In our view these generic assignments are poorly founded because no characters will consistently allow for recognition of *Melanotrichus* and its distribution clearly suggests an unnatural assemblage. We therefore prefer to treat these species as members of a more broadly construed *Orthotylus* until such time as more comprehensive studies are conducted on the generic classification of *Orthotylus* and its near relatives—recognizing that *Orthotylus* is also clearly not monophyletic. The new combinations created by this action are: *O. argentinus* Carvalho, 1985; *O. minensis* Carvalho, 1985; *O. saltensis* Carvalho, 1985; *O. clarensis* Carvalho, 1990; *O. bonaerensis* Carvalho and Carpintero, 1986; *O. missionensis* Carvalho and Carpintero, 1986; *O. sumaloensis* Carvalho and Carpintero, 1986; *O. vermelhensis* Carvalho and Costa, 1992; *O. joacemensis* Carvalho and Costa, 1992; *O. membranosus* Carvalho and Costa, 1992; *O. elongatus* Kelton, 1980; *O. pallens* Knight, 1968; and *O. uniformis* Knight, 1968. Five of these names—*clarensis*, *elongatus*, *missionensis*, *pallens*, and *uniformis*—become secondary homonyms as a result of their transfer to *Orthotylus*. We propose replacement names above.

A final case involves *Dichaetocoris brevirostris* Knight, 1968 [Brigham Young Univ. Sci. Bull., Biol. Ser., 9: 115], which was later transferred to *Melanotrichus* by Polhemus, 1985 [Pan-Pac. Entomol. 61: 149]. Because of the resulting secondary homonymy with *M. brevirostris* Knight, 1927 (transferred by Kelton in 1978 to *Brooksetta* Kelton), Polhemus proposed the replacement name *M. knighti*. The replacement name was unnecessary because the two taxa were not considered synonymous (International Code of Zoological Nomenclature, Article 59a).

## FIXATION OF TYPE SPECIES

*Brasiliocarnus* Kerzhner and Schuh*Brasiliocarnus* Carvalho, 1984: 377.

Carvalho (1984) proposed the name *Brasiliocarnus* with two included species, but failed to designate a type species. In the Zoological Record for 1985 [ZR, 1987, pt. 13F: 197], *B. bahiensis* was indicated as the type, but because this fixation is anonymous it is invalid. The type of the genus is here designated as *Brasiliocarnus fraudans* Stål, 1860 [K. Vet. Akad. Handl. 2(7): 52].

*Cleotomiris* Schuh*Cleotomiris* Schuh, 1984: 81.

Schuh (1984) proposed the name *Cleotomiris* with four included species. For reasons not now obvious, no type species was designated. The type of the genus is here designated as *Cleotomiris schneirlai* Schuh, 1984. This nomenclatural act, which makes the name available, should be credited to Schuh (this paper).

## REVISED HIGHER-CATEGORY PLACEMENTS

*Dicyphopsis* Poppius, 1914*Dicyphopsis* Poppius, 1914: 11.

*Dicyphopsis*, with the single included species *D. nigriceps* Poppius, 1914, was described from one female specimen collected in Tanzania (Kilimandjaro) and placed in the Macrolophinae (now Dicyphina) by its author. The holotype was completely destroyed on shipment from the Naturhistoriska Riksmuseet, Stockholm, to G. Cassis (Cassis, 1986). We have examined specimens in the American Museum of Natural History considered by us to be congeneric, but not conspecific, with *D. nigriceps* specimens collected in Zaire by N. A. Weber (Stanleyville, March 18, 1948) and Ghana by R. T. Schuh and J. A. Slater (Tafo, October, 5, 1967; many males and females). These specimens fit the original description in all details except that the dorsal vestiture is pale (not dark), antennal segment 1 lacks a longitudinal ventroapical dark stripe, and segment 2 is completely

black (rather than pale) with a longitudinal dark stripe on the apical half as in *nigriceps*. Furthermore, these specimens do not have what might be considered a typical habitus for the Halticini; they are elongate, macropertous in both sexes with semitransparent hemelytra, and have a well-delimited pronotal collar and slender hind femora. They do, however, have typical halticine male genitalia, with the right paramere spoon-shaped, the left paramere 7-form, and the aedeagus without a vesica and spines. Based on these observations we transfer *Dicyphopsis* to the Halticini.

A second species placed in *Dicyphopsis*, *D. spectabilis* Linnauvori, 1975 (holotype examined), does not fit the original description of the genus in many significant details. The eyes are granulose, not touching the anterior margin of the pronotum (contrary to Linnauvori's description), and much wider than the vertex (in *Dicyphopsis* half as wide). The large cell of the membrane forms a marked angle whereas in *Dicyphopsis* it is broadly rounded, and the color pattern is strongly dissimilar to that of *D. nigriceps*. Cassis (1986) examined two specimens of the type series and stated that they strongly resemble *Campyloneuropsis* Poppius. We agree with his conclusions and place *spectabilis* Linnauvori in *Campyloneuropsis*.

*Ifephylus* Linnauvori, 1993*Ifephylus* Linnauvori, 1993b: 207.

Linnauvori placed his new genus *Ifephylus* in the Pilophorini solely on the basis of pretarsal structure. Based on the structure of the male genitalia, we treat this taxon as belonging to the Phylini.

*Mendozaphylus*

Carvalho and Carpintero, 1991

*Mendozaphylus* Carvalho and Carpintero, 1991b: 201.

Carvalho and Carpintero (1991b) placed *Mendozaphylus* in the Hallopodini. Based on the description and habitus figure and illustrations of the male genitalia of the single included species, we are placing this taxon in the Phylini. No true Hallopodini have been

previously documented from the Neotropics, and this one lacks the distinctive genitalia of the Old World taxa and *Cyrtopeltocoris* Reuter from North America.

### *Opisthocoris*

Carvalho and Costa, 1991

*Opisthocoris* Carvalho and Costa, 1991: 206. revised family placement

Carvalho and Costa (1991) placed *Opisthocoris*, with its single included species *O. carmelitanus* Carvalho and Costa, 1991, in the Stenodemini. Based on the habitus figure and illustrations of the pretarsus, we do not believe this taxon belongs to the Miridae, but rather to the Lygaeidae, Cyminae. Examini-

nation of specimens will be necessary to more precisely determine its identity.

### *Tibiopilus*

Carvalho and Costa, 1993

*Tibiopilus* Carvalho and Costa, 1993: 207.

Carvalho and Costa (1993) placed *Tibiopilus* in the Hallopodini. Based on the description of the pronotal collar as "deprimido" (depressed) as well as the habitus figure and the illustrations of the male genitalia of the single included species *T. pedunculatus* Carvalho and Costa, we are transferring this taxon to the Phylini. No Hallopodini have been documented from the neotropics, and *Tibiopilus* appears to lack the diagnostic features of the group.

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