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SEVERAL NOMENCLATURAL CLARIFICATIONS ON GENUS-GROUP NAMES IN THE APHIDIDAE (HEMIPTERA STERNORRHYNCHA)

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Nieto Nafria J.M., Favret C., Akimoto S., Barbagallo S., Chakrabarti S., Mier Durante M.P., Miller G.L., Pérez Hidalgo N., Qiao G.-X., Sano M., Stekolshchikov A.V., Wegierek P. – Several nomenclatural clarifications on genus-group names in the Aphididae (Hemiptera Sternorrhyncha).

While preparing a *proposal* for a *Part* of the *List of Available Names in Zoology* devoted to the aphid genus-group names, we found errors of nomenclatural importance for 95 names. We here present corrections and clarifications for these genus-group names with precise reference to the rules of nomenclature established in the International Code of Zoological Nomenclature, Fourth Edition. We designate the type species of *Myzoxylon* Berthold, 1827 to be *Myzoxilus mali* Blot, 1831 and propose its synonymy with *Eriosoma* Leach, 1818, and put forth *Neorbopalosiphoninus* Ghosh & Raychauduri, 1968 as a substitute name for the unavailable *Myzosiphon* Hille Ris Lambers, 1946.

KEY WORD: Aphid genera, unavailable names, available names, new synonymy.

INTRODUCTION

The aphidologist community attending the Seventh International Symposium on Aphids in Fremantle (Western Australia, 2005) entrusted us with the preparation of a *Part* devoted to the aphid genus-group taxa names of the *List of Available Names in Zoology* to be presented at the subsequent aphid symposium. During the course of our work, and in this paper, the Aphididae encompassed the taxonomic sense used by Remaudière, Stroyan and Quednau (REMAUDIÈRE & REMAUDIÈRE, 1997). We relied heavily on the works of KIRKALDY (1905, 1906a, b, c), BAKER (1920), BÖRNER & SCHILDER (1930), and especially EASTOP & HILLE RIS LAMBERS (1976, the *SURVEY*) and REMAUDIÈRE & REMAUDIÈRE (1997, the *CATALOGUE*). The importance of these publications is well known and the paucity of errors (95) among the 1,227 available and 111 unavailable names listed therein is a testament to the quality of the works and the meticulousness of the authors. However, in examining the original literature, we did find a few errors with significance for current nomenclatural practice, per the fourth edition of the International Code of Zoological Nomenclature, henceforth the *Code* (INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE, 1999, henceforth the *Commission*; we reference the fourth edition throughout).

Historically, errors crept in at various stages of the transmission of data from publication to publication, and although some were corrected in later works, some remain on record to this day.

RESULTS AND DISCUSSION

UNAVAILABLE NAMES

Unpublished names

Four names attributed to Aizenberg are unpublished because the work (AIZENBERG, 1954) was printed “as a manuscript” (*Code* articles 8.1.1 and 9.9). They are: “*Archicallis*” – listed in the *Catalogue* as a synonym of *Timocallis* Matsumura –, “*Ovatopsis*” – listed in the *Survey* and in the *Catalogue* as a synonym of *Tubaphis* Hille Ris Lambers –, and “*Shaposhnikovia*” and “*Caricobium*” both listed in the *Survey* as without validly described species and in the *Catalogue* as *nomina nuda*.

Authorship misattributions

“*Rhopalosiphum*” attributed to Passerini, “*Rhopalosiphum*” attributed to van der Goot, “*Pachypappa*” attributed to Tullgren and “*Nevskya*” attributed to Mamontova

are listed in the *Survey* and in the *Catalogue* with these mis-attributions, caused by faulty interpretation of the original text. The genus *Brevicoryne* is currently attributed to van der Goot, but it may be attributed to Das.

PASSERINI (1860: 27) attributed the genus *Rhopalosiphum* to Koch, albeit in a different taxonomic sense, and designated *Aphis persicae* Sulzer as type species; this was an invalid designation, however, because GERSTAEKER (1859: 162) had already designated a type, *Aphis nymphaeae* Linnaeus. The error appeared for the first time in BÖRNER (1952). In the *Survey* and *Catalogue*, this supposed genus was considered a synonym of *Nectarosiphon* Schouteden.

VAN DER GOOT (1913: 146) also attributed the *Rhopalosiphum* to Koch and also erroneously designated a type species, *Amphorophora ampullata* Buckton (see above). The error appeared for the first time in BÖRNER (1952). In the *Survey* and *Catalogue*, this supposed genus was considered a synonym of *Amphorophora* Buckton.

TULLGREN (1909: 69) described *Pachypappa lactea*, attributing the genus to Koch but giving it an exaggerated taxonomic breadth. BAKER (1920: 71) named a new genus, *Pachypappella* with this species, and in his list of precedents wrote “*Pachypappa* Tullgren” instead of “*Pachypappa* Koch *sensu* Tullgren”. In the *Survey* and *Catalogue*, this supposed “*Pachypappa* Tullgren” was considered a synonym of *Pachypappella* Baker.

MAMONTOVA (1955: 9) cited *Neuskya* in combination with *mahaleb* Koch, but presumably it was a misprint for *Neuskia* Mordvilko, 1932, because there is not any explanation about an emmendment in the article.

Brevicoryne is normally attributed to van der Goot (EASTOP & HILLE RIS LAMBERS, 1976; REMAUDIÈRE & REMAUDIÈRE, 1997), but VAN DER GOOT (1915), in establishing the genus wrote: «BREVICORYNE Das. // Allgemeines. // Zu dieser neuerdings von Herrn B. DAS (Lahore) errichteten neuen Gattung gehört nur eine europäische Art, [...]». A title and paragraph are enough to attribute the genus to B. Das per application of article 50.1.1 of the *Code*. This conclusion is congruent with the interpretation made by other authors: (1) DAS (1918, edited by van der Goot); (2) although he attributed the genus to van der Goot in an erroneous application of the nomenclatural rules, THEOBALD (1927: 44) wrote «The name was coined by Das and is credited by van der Goot»; (3) BÖRNER & SCHILDER (1930: 183), «*Brevicoryne* (Das MS Goot 1915)»; and (4) BÖRNER (1952: 138), «*Brevicoryne* (Das MS) v. d. G. 1915».

Names in suppressed works (Code articles 8.7.1 and 11.1)

Forty-four names created by AMYOT (1847) have not been recorded in subsequent aphid catalogues. These names are listed with their cited page number: *Absinthifex* (475), *Acerifex* (479), *Achillaphis* (474), *Aegopodaphis* (479), *Balsamifex* (479), *Bumelifex* (484), *Camalaphis* (477), *Cerasifex* (479), *Clethraxis* (480), *Cornifex* (483), *Corylaphis* (479), *Crambaphis* (478), *Dianthaphis* (477), *Elatiptus* (484), *Evonymaphis* (478), *Genistifex* (478), *Humulifex* (477), *Lachnodaphis* (483), *Lychnidaphis* (478), *Lythraxis* (477), *Myzaegirus* (479), *Nigritarsifex* (480), *Oncodaphis* (479), *Oxyacanthaphis* (478), *Padifex* (477), *Phegirus* (480), *Philyriptus* (479), *Picridifex* (475), *Plantaginifex* (478), *Prunifex* (476), *Ribifex* (476), *Salicifex* (480), *Scolymaphis* (479), *Serratulifex* (475), *Solidaginifex* (475), *Taeniolachnus* (481), *Tanacetifex* (476), *Tremulifex* (483), *Tremulinax* (483), *Urticifex* (475), *Viburnifex* (486), *Vitellinifex* (479), *Xylostaphis* (479), and *Xylosthaetius* (484). All these names are unavailable because the works of Amyot were suppressed

by the *Commission* in 1963 (Opinion 686, Bulletin of the Zoological Nomenclature, 20: 423; SMITH 1972). Twenty-two other Amyot unavailable names were recorded in the *Survey* (19) and/or *Catalogue* (21).

Original spelling not adopted by first reviser (Code articles 32.2 and 4)

Four names are affected: *Neotuberculatus* van der Goot, *Watamushia* Matsumura, *Trichonosiphoniella* Shinji, and *Trichonosiphuniella* Shinji. *Neotuberculatus* and *Tuberculooides* are two original spellings for one actual taxon (VAN DER GOOT, 1915: 567 & 312); EASTOP & HILLE RIS LAMBERS (1976: 319), adopted *Tuberculooides* van der Goot as the correct spelling. *Watabura* and *Watamushia* are two original spellings for one actual taxon (MATSUMURA, 1917: 88 & 93); EASTOP & HILLE RIS LAMBERS (1976: 319), adopted *Watabura* Matsumura as the correct spelling. We, as first revisers per *Code* Article 24.2.3, following the example of EASTOP & HILLE RIS LAMBERS (1976) and for the sake of the nomenclatural stability, here adopt *Tuberculooides* van der Goot and *Watabura* Matsumura as the correct spellings, thereby making *Neotuberculatus* van der Goot and *Watamushia* Matsumura unavailable. *Trichonosiphuniella*, *Trichonosiphoniella* and *Trichosiphoniella* are three original spellings for one actual taxon (SHINJI, 1929: 41, 46 & 47); SHINJI (1930b: 188), as first reviser per *Code* Article 24.2.3, adopted *Trichosiphoniella* as the correct spelling and, as a consequence, the other two were made unavailable.

Original spelling not in prevailing usage (Code article 33.3.1)

Two pairs of names are affected.

Sitobium Mordvilko, 1914 is unavailable and *Sitobion* Mordvilko, 1914 is the correct name for the genus, because this last name is a subsequent spelling in prevailing usage and attributed to the original author and date (MORDVILKO, 1914: 65; 1919: 337).

Allotrichosiphon Takahashi, 1962 is unavailable and *Allotrichosiphum* Takahashi, 1962 is the correct name for the genus because this last name is a subsequent spelling in prevailing usage and attributed to the original author and date (TAKAHASHI, 1962: 70; GHOSH *et al.*, 1971:104).

Names established in synonymy (Code article 11.5)

Three names are affected: *Chaetocallis* Börner, *Carazzia* Del Guercio and *Neocalaphis* Shinji. *Chaetocallis* was established in synonymy with *Hoplochaitophorus* Granovsky (BÖRNER, 1952: 62); subsequently it has been listed as a synonym of *Hoplocallis* Pintera. *Carazzia* was established in synonymy with *Clavisiphon* Del Guercio (DEL GUERCIO, 1930: 500); it also has been recorded as a synonym of *Eucarazzia* Del Guercio. *Neocalaphis* was established as a new genus (SHINJI, 1927: 30) but an erratum note in the paper indicates that «*Neocalaphis* should read *Chromaphis*», implicitly putting the names in synonymy (*Code* article 32.5.1.1). It has been subsequently listed as an available name (*Survey*) or a synonym of *Calaphis* Walsh (*Catalogue*).

Names established without a text description (Code article 13.1)

Nine genus names are affected.

MORDVILKO (1932: 236) and SHINJI (1933: 270), respectively, established *Neuskia* and *Amrbopalosiphunicus* with neither a text description nor a type species (*Code* article 13.3). They had been respectively listed as synonym of *Melanaphis* van der Goot and *Rhopalosiphoninus* Baker.

The generic names *Amyzus*, *Judenkoa*, and *Myzosiphon*

were established by Hille Ris Lambers with only a description of the gall, not the aphid proper. The galls are induced by *Aphis ligustri* Mosley, *Aphis lonicerae* Siebold and *Rhopalosiphum staphyleae* Koch (ATTA & VAN LEEUWEN, 1945: 156, 158 & 244), respectively. *Amyzus* was never described and has been recorded as a synonym of *Nectarosiphon* Schouteden or of other related genera. *Judenkoa* was made available by HILLE RIS LAMBERS (1953). Hille Ris Lambers never described the genus *Myzosiphon*, but EASTOP & HILLE RIS LAMBERS (1976: 378) used it as a subgenus of *Rhopalosiphoninus* Baker, also failing to describe it, and it has continued to be used as such. As *Myzosiphon* is unavailable and cannot be valid (Code article 23.1), it requires a replacement name. The replacement name must be *Neorhopalosiphoninus* GHOSH & RAYCHAUDHURI (1968: 187), because it is the only available synonym, although the identity of the type species, *N. smilacifoliae* Ghosh (A.K.) & Raychaudhuri (D.N.), 1968, remains uncertain (BLACKMAN & EASTOP, 2006).

BÖRNER (1949: 43, and 1952: 101, respectively) named but did not describe *Myzodium* and *Annaja*. *Myzodium* Börner, 1950 is available. *Annaja* has been listed as a synonym of *Dysaphis* Börner or of other related genera.

Neocinaria Pašek and *Pseudocinara* Pašek were established by PINTERA (1966: 282) and have been listed as synonyms of *Cinara* Curtis.

Names established without type species (Code article 13.3)

Six Börner names were established without type species: *Ammiaphis*, *Pseudacaudella*, *Idiovatus* and *Melanosiphon* BÖRNER (1944: 216 and 217), and *Arthromyzus* and *Rhopalomyzus* BÖRNER (1950: 12).

BÖRNER (1952: 138, 125, 142 & 139, respectively) designated the type species of *Arthromyzus*, *Idiovatus*, *Melanosiphon* and *Rhopalomyzus*, but this action did not confer availability to them because he put *Arthromyzus* in synonymy with *Myzotoxoptera* Theobald (later, it was placed in synonymy with *Myzosiphon* Hille Ris Lambers or other related genera), *Idiovatus* in synonymy with *Myzodes* Mordvilko (it was later placed in synonymy with *Nectarosiphon* Passerini or other related genera), *Melanosiphon* in synonymy with *Dysaulacorthum* Börner (it was later placed in synonymy with *Aulacorthum* Mordvilko or other related genera), and *Rhopalomyzus* in synonymy with *Rhopalosiphoninus* Baker (it is in the *Survey* but not the *Catalogue*).

Ammiaphis Börner, 1952 and *Pseudacaudella* Börner, 1950 are available names.

AVAILABLE NAMES

Forgotten names

The aphid catalogues of the 20th Century did not list two available genus names.

Myzoxylon was established by BERTHOLD (1827: 427) using an indication (Code article 12.2.1) referencing a previous work by Blot; he did not mention any species by its scientific name, but clearly referred to the woolly apple aphid, *Myzoxilus mali* BLOT (1831), used to establish the genus *Myzoxylon* Blot, 1831 and which we here designate as type species. *Myzoxylon* Berthold was mentioned (and misspelled “*Myzoxilon*”) by RONDANI (1848) and NEAVE (1940). It is a subjective junior synonym of *Eriosoma* Leach, syn. nov.

Siphonocoryne was established by SHINJI (1922: 793) describing the new species *Siphonoeoryne* [sic] *polygoni*, which is the type species by monotypy. SHINJI (1941: 1041)

implicitly admitted mistyping *Siphonoeoryne* instead of *Siphonocoryne* and proposed the synonymy of the type species with *Trichosiphonaphis polygoniformosanus* (Takahashi, 1921). *Siphonocoryne* is in neither the *Survey* nor the *Catalogue* because EASTOP & HILLE RIS LAMBERS (1976: 399) and REMAUDIÈRE & REMAUDIÈRE (1997: 264) erroneously considered the original name a misprint of *Siphocoryne*. Per MIYAZAKI (1971), it is a subjective synonym of *Akkaia* Takahashi, 1919.

Available names previously considered unavailable (Code Chapter 4)

Sixteen names, listed in “*Genres indisponibles - Unavailable names*” of the *Catalogue*, are actually available.

Adactynus, *Dactynotus*, and *Loxerates* were established by RAFINESQUE (1818). They are *nomina dubia* (FAVRET *et al.*, 2007). *Cladoxus* Rafinesque, 1818 also is available but is not an aphid name because *Aphis* (*Cladoxus*) *fusciclava*, its type species, has club-shaped antennae (RAFINESQUE, op. cit.; HOTTES, 1931: 63).

Tychea Koch, *Aorison* Mordvilko, *Eualaulax* Mordvilko, *Halmodaphis* Mordvilko, *Jaxartaphis* Mordvilko, *Orobion* Mordvilko, *Turanaphis* Mordvilko, *Tuberculaphis* Theobald (in DAS, 1918), *Pteriaphis* Gaumont, *Chaitocallipterus* Theobald, and *Neomegoura* Shinji also are *nomina dubia* (KOCH, 1857; NIETO NAFRÍA *et al.*, 2007; MORDVILKO, 1914; GAUMONT, 1923; THEOBLAD, 1927; SHINJI, 1930a).

Macrosiphon Del Guercio and *Neomyzodes* Aizenberg (DEL GUERCIO, 1914; AIZENBERG, 1966) are junior synonyms of *Macrosiphum* Passerini and of *Myzus* Passerini, respectively.

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