

Case 3761 – PLATYPLEURINI Schmidt, 1918: Proposed precedence over HAMZARIA Distant, 1905 to conserve nomenclatural stability in the CICADIDAE (Insecta, Hemiptera, Auchenorrhyncha, CICADOIDEA)

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Abstract. The purpose of this application, under Article 23.9.3 of the Code, is to conserve the usage of the family-group name PLATYPLEURINI Schmidt, 1918 and its derivatives for a group of Old World cicada species, by giving it precedence over the senior synonym HAMZARIA Distant, 1905. PLATYPLEURINI was recently synonymised with HAMZINI following molecular data that appeared in a dissertation. PLATYPLEURINI was used for the family group containing *Platypleura* from 1918 to the present day in at least 127 publications, while only four papers have applied HAMZINI in the new sense (including *Platypleura*).

Key Words. Nomenclature; taxonomy; Hemiptera; CICADIDAE; HAMZINI; HAMZARIA; PLATYPLEURINI; *Hamza*; *Platypleura*; cicadas.

1. Amyot & Audinet-Serville (1843, p. 465) established the cicada genus *Platypleura* (type species *Cicada stridula* Linnaeus, 1758 by subsequent designation by Westwood, 1845, p. 33). *Cicada capensis* Linnaeus, 1764 was also originally included.

2. Distant (1904, p. 674) established the monotypic genus *Hamza* (type species *Cicada ciliaris* Linnaeus, 1758, originally designated as *Platypleura bouruensis* Distant, 1898; see also Metcalf 1963, Sanborn 2013), describing the male type as “with the appearance of the genus *Platypleura*, but with the tympana [timbals] largely uncovered”.

3. Distant (1905, p. 382) erected the monogeneric division HAMZARIA for the genus *Hamza* Distant, 1904, in subfamily GAEANINAE, family CICADIDAE. Later, Distant (1914) added the monotypic genus *Tugelana* Distant, 1912 to the group.

4. In 1918, Schmidt (1918, p. 378) described the new species *frontalis* in the genus *Platypleura* Amyot & Audinet-Serville, 1843, and in doing so listed *Platypleura* for the first time under the tribe PLATYPLEURINI, subfamily CICADINAE, and family CICADIDAE. Authorship was stated for the genus but not for the family-group taxon, and no indication was made that PLATYPLEURINI was a new taxon. Soon afterward, Schmidt (1919, p. 366) explicitly mentioned PLATYPLEURINI as a new tribe, but the name originally dates from the 1918 publication, which is regulated by Article 12.2.4, wherein the formation of a family-group name before 1931 is allowed by indication from an available generic name.

5. Kato (1932; 1956) placed *Hamza* in the tribe PLATYPLEURINI (see also Duffels, 1991), apparently not recognizing that HAMZARIA had priority.

6. Metcalf (1963) catalogued twelve genera and subgenera under tribe PLATYPLEURINI

(subfamily TIBICENINAE, family CICADIDAE). Four genera were listed under subtribe HAMZARIA (tribe GAEANINI, subfamily GAEANINAE): *Tugelana*, *Hamza*, *Becquartina* Kato, 1940 and *Formotosena* Kato, 1925), the latter two of which were erroneously included (see Duffels 1991, p. 128).

7. China (1964) petitioned the Commission to suppress the name TIBICENIDAE Van Duzee, 1916 in favour of PLATYPLEURIDAE Schmidt, 1918 (Z.N.(S.) 1626), but no ruling was made on the case, as explained by Melville & Sims (1984, p. 163).

8. Duffels & van der Laan's (1985) supplement to Metcalf's (1963) catalogue brought the number of genera and subgenera to 20 for an expanding PLATYPLEURINI (subfamily CICADINAE, family CICADIDAE), and the same four genera for HAMZINI, now also included in subfamily CICADINAE and correctly spelled following Article 11.7.1.3 of the Code.

9. Villet (1994) transferred *Tugelana* to PLATYPLEURINI, leaving HAMZINI again monotypic.

10. In his unpublished doctoral dissertation, Price (2010) presented a molecular phylogeny containing most of the genera currently classified in PLATYPLEURINI, plus genera from related tribes. This tree showed *Hamza ciliaris* to be nested within a clade exclusively containing all of the sampled PLATYPLEURINI genera. Price (p. 21) noted the need to synonymise the junior name PLATYPLEURINI but still recognised PLATYPLEURINI for the purposes of the thesis (although no reference was made to Articles 8.2 or 8.3 of the Code). Under Article 40.1 of the Code, HAMZINI would retain priority even if *Hamza* were to be synonymised with *Platypleura*. Price's dissertation chapter is now being formatted for publication (Price et al., in prep.), and the new manuscript uses PLATYPLEURINI pending the outcome of this case.

11. With no formal synonymy published, Sanborn (2013) catalogued ca. 30 genera and 257 species-level taxa in PLATYPLEURINI. Only *Hamza ciliaris* was listed for HAMZINI.

12. Appealing to the molecular tree in Price's (2010) dissertation, Lee (2014, p. 61) formally recognised the priority of HAMZINI with regard to the family group previously referenced under PLATYPLEURINI.

13. For 110 years preceding Lee (2014), HAMZINI had been used only to refer to *Hamza*, sometimes in combination with *Tugelana*. These genera today comprise just two species. (*Becquartina* and *Formotosena* were catalogued erroneously for a time, see paragraph 6 above.) *Platypleura* and the other remaining genera included in PLATYPLEURINI as of 2014 had never been included under HAMZINI or its family group variants.

14. At least 127 publications have used the name PLATYPLEURINI Schmidt or its family-group variants from 1918 to the present day, along with two doctoral dissertations, and two publications have referred to a "platypleurine" family-group, according to published catalogues of the CICADIDAE supplemented by online searches of Google (www.google.com plus Google Scholar at scholar.google.com), *Biological Abstracts*, *Zoological Record*, SCOPUS (<https://www.elsevier.com/solutions/scopus>), and bionames.org. In contrast, just four papers (three with Lee as senior author) have included *Platypleura* under HAMZINI in its new sense, all since 2014 (Lee, 2014; Lee, 2015; Lee et al., 2016; Marathe et al., 2017). The senior author of the last paper is a co-signer of this petition. A list containing 142 historical references by 50 senior authors spanning the last 114 years is held by the Secretariat.

15. Because HAMZINI was used as a valid name after 1899, prevailing usage cannot

be maintained through Article 23.9.1 of the Code.

16. Allowing HAMZINI to take priority for a group of distinctive and well known cicada species known for nearly a century as PLATYPLEURINI will foster continuing taxonomic confusion and separate these taxa (257 species, or 7.5% of the world fauna) from a large body of biological literature. We therefore propose that PLATYPLEURINI be given precedence over HAMZINI.

17. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) under Article 23.9.3 of the Code, to use its plenary power to rule that the name PLATYPLEURINI Schmidt, 1918 and other family-group variants based on *Platypleura* Amyot & Audinet-Serville, 1843 be given precedence over HAMZARIA Distant, 1905 and other family-group variants based on *Hamza* Distant, 1904 (e.g., HAMZINI) whenever their type genera are placed in the same family-group taxon;
- (2) to place on the Official List of Generic Names in Zoology the names:
 - (a) *Hamza* Distant, 1904 (gender: feminine), type species by monotypy *Cicada ciliaris* Linnaeus, 1758;
 - (b) *Platypleura* Amyot & Audinet-Serville, 1843 (gender: feminine), type species *Cicada stridula* Linnaeus, 1758, by subsequent designation by Westwood (1845, p. 33);
- (3) to place on the Official List of Specific Names in Zoology the names:
 - (a) *ciliaris* Linnaeus, 1758, as published in the binomen *Cicada ciliaris* Linnaeus, 1758 (specific name of type species of *Hamza* Distant, 1904);
 - (b) *stridula* Linnaeus, 1758, as published in the binomen *Cicada stridula* Linnaeus, 1758 (specific name of type species of *Platypleura* Amyot & Audinet-Serville, 1843);
- (4) to place on the Official List of Family-Group Names in Zoology the names:
 - (a) PLATYPLEURINI Schmidt, 1918 (type genus *Platypleura* Amyot & Audinet-Serville, 1843), with the endorsement that it and other family-group variants based on *Platypleura* are to be given precedence over HAMZARIA Distant, 1905 and other family-group variants based on *Hamza* Distant, 1904 (e.g., HAMZINI) whenever their type genera are placed in the same family-group taxon;
 - (b) HAMZINI Distant, 1905 (type genus *Hamza* Distant, 1904), with the endorsement that it and other family-group names based on *Hamza* are not to be given precedence over PLATYPLEURINI Schmidt, 1918 and other family-group names based on *Platypleura* Amyot & Audinet-Serville, 1843 whenever their type genera are placed in the same family-group taxon.

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Comments on this case are invited for publication (subject to editing) in the Bulletin; they should be sent to the Secretariat, ICZN, Lee Kong Chian Natural History Museum, 2 Conservatory Drive, Singapore 117377, Republic of Singapore (e-mail: iczn@nus.edu.sg).