

A new leafhopper genus *Bhatiahamus* (Hemiptera: Cicadellidae: Deltoccephalinae) from China with description of a new species and a new combination

LIN LU & YALIN ZHANG¹

Key Laboratory of Plant Protection Resources and Pest Management, Ministry of Education, Entomological Museum of Northwest A&F University, Yangling, Shaanxi 712100, China

¹Corresponding author. E-mail: yalinzh@nwsuaf.edu.cn

Abstract

A new leafhopper genus, *Bhatiahamus* gen. nov., is established for *B. flabellatus* (Shang & Shen) n. comb. (*Bhatia*) (type species) and *B. sinuatus* sp. nov., both from China. A key to distinguish the two species is provided.

Key words: Homoptera, Auchenorrhyncha, Drabescini, Paraboloponina, taxonomy

Introduction

A new leafhopper genus *Bhatiahamus* is established for *B. flabellatus* (Shang & Shen) n. comb. (*Bhatia*) (type species) and *B. sinuatus* sp. nov., both from China. The new genus belongs to the subtribe Paraboloponina considered to belong to the Deltoccephalinae: Drabescini (Dietrich & Rakitov, 2002; Dmitriev, 2004; Dietrich, 2005; Zahniser & Dietrich, 2008, 2010, 2013). This genus is similar to *Bhatia* Distant reviewed by Zhang & Webb (1996), both externally and in having an additional sclerite between the aedeagus and connective (Fig. 2K) but differs in having the male Xth segment with a pair of stout apical processes (Fig. 2F), the aedeagus without basal processes and the basal apodeme petaloid (Fig. 2H). A key to separate these two species is provided.

Specimens are deposited in the Entomological Museum, Northwest A&F University, Yangling, Shaanxi, China (NWAFU) and the Institute of Zoology at the Chinese Academy of Science (IZCAS).

Genus *Bhatiahamus* gen. nov.

Type species: *Bhatiahamus flabellata* (Shang & Shen), 2006

Description. Body yellowish brown. Fore margin of head with 1–2 dark brown bands between eyes. Pronotum with brown irrorations. Forewing hyaline smoky brown with a brown spot at apex of claval veins. Head slightly broader than pronotum with a few transverse carinae or striations on anterior margin. Vertex short, slightly longer medially than next to eyes; transversely depressed subapically. Ocelli situated on fore margin and a little distant from eyes, with a transverse ridge between ocelli. Face broader than length; antenna longer than half body length, located at front top corner of eye; antennal pit deep and expanded onto frontoclypeus; frontoclypeus with median area slightly swollen; anteclypeus narrowed medially with base broader than apex; lora large. Pronotum with sides short. Scutellum about same length as pronotum. Front femur with anteroventral (AV1) setae long, intercalary (IC) row with about 13 setae; AM1 seta large, situated near apex; AV setae absent. Fore tibia with setal formula 1+4. Hind femur apical setal formula 2+2+1. Forewing with three subapical cells and the first subapical cell open; clavus with crossvein between inner claval vein and claval suture.

Male genitalia with pygofer side broad basally, tapering to rounded or acute apex, with numerous distal

University, U.S.A.) for revising the manuscript. This study was supported by the National Natural Science Foundation (Nos. 31101652, 31093430, 31000968) and by the Ministry of Education of China (TS2011XBNL061).

References

- Dietrich, C.H. (2005) Keys to the families of Cicadomorpha and subfamilies and tribes of Cicadellidae (Hemiptera: Auchenorrhyncha). *Florida Entomologist*, 88 (4), 502–517.
[http://dx.doi.org/10.1653/0015-4040\(2005\)88\[502:kttfoc\]2.0.co;2](http://dx.doi.org/10.1653/0015-4040(2005)88[502:kttfoc]2.0.co;2)
- Dietrich, C.H. & Rakitov, R.A. (2002) Some remarkable new deltocephaline leafhoppers (Hemiptera: Cicadellidae: Deltocephalinae) from the Amazonian rainforest canopy. *Journal of the New York Entomological Society*, 110 (1), 1–48.
[http://dx.doi.org/10.1664/0028-7199\(2002\)110\[0001:srndlh\]2.0.co;2](http://dx.doi.org/10.1664/0028-7199(2002)110[0001:srndlh]2.0.co;2)
- Dmitriev, D.A. (2004) Nymphs of some species of the tribes Drabescini and Paraboloponini with a proposed synonymy of Paraboloponini with Drabescini (Hemiptera: Cicadellidae: Deltocephalinae). *Oriental Insects*, 38, 235–244.
<http://dx.doi.org/10.1080/00305316.2004.10417390>
- Shang, S.Q., Shen, L., Zhang, Y.L. & Li, H.H. (2006) Taxonomy study on the leafhopper genus *Bhatia* (Hemiptera: Cicadellidae) from China. *Proceedings of the Entomological Society of Washington*, 108 (3), 565–574.
- Zahniser, J.N. & Dietrich, C.H. (2008) Phylogeny of the leafhopper subfamily Deltocephalinae (Insecta: Auchenorrhyncha: Cicadellidae) and related subfamilies based on morphology. *Systematics and Biodiversity*, 6 (1), 1–24.
<http://dx.doi.org/10.1017/s1477200007002617>
- Zahniser, J.N. & Dietrich, C.H. (2010) Phylogeny of the leafhopper subfamily Deltocephalinae (Insecta: Auchenorrhyncha: Cicadellidae) based on molecular and morphological data with a revised family-group classification. *Systematic Entomology*, 35 (3), 489–511.
<http://dx.doi.org/10.1111/j.1365-3113.2010.00522.x>
- Zahniser, J.N. & Dietrich C.H. (2013) A review of the tribes of Deltocephalinae (Hemiptera: Auchenorrhyncha: Cicadellidae). *European Journal of Taxonomy*, 45, 1–211.
<http://dx.doi.org/10.5852/ejt.2013.45>
- Zhang, Y.L. & Webb, M.D. (1996) A revised classification of the Asian and Pacific Selenocephalinae leafhoppers (Homoptera: Cicadellidae). *Bulletin of the Natural History Museum, Entomology Series*, 65, 1–103.