



A taxonomic review of the Old World leafhopper genus *Changwhania* Kwon (Hemiptera: Cicadellidae: Deltocephalinae: Paralimnini)

YALIN ZHANG^{1,4}, YANI DUAN^{1,2} & M.D. WEBB³

¹Key Laboratory of Plant Protection Resources and Pest Management of Ministry of Education, Entomological Museum, Northwest A & F University, Yangling, Shaanxi Province 712100, China

²School of Plant Protection, Anhui Agricultural University, Hefei, Anhui Province 230036, China

³Department of Entomology, The Natural History Museum, Cromwell Road, South Kensington, SW7 5BD, London, UK

⁴Corresponding author. E-mail: yalinzh@yahoo.com.cn

Abstract

The Old World leafhopper genus *Changwhania* Kwon is reviewed and three of its four species are illustrated and male genital characters are provided. One new species from China, *Changwhania digitata* Zhang and Duan, is described. A key to species is also provided.

Key words: Homoptera, Auchenorrhyncha, grassland, morphology, identification, new species, China

Introduction

The Old World grassland leafhopper genus *Changwhania* Kwon (Deltocephalinae: Paralimnini) was established by Kwon (1980) for two species from Korea, *C. terauchii* (Matsumura, 1915), the type species, and *C. changwhani* Kwon, 1980. Later, Webb & Heller (1990) transferred *C. ceylonensis* (Baker, 1925) and *C. distanti* (Baker, 1925) to the genus from *Deltocephalus* and at the same time placed *C. changwhani* Kwon and *Cicadula bipunctatus* Singh-Pruthi, 1930 in synonymy with *C. ceylonensis* (Baker, 1925).

In this paper, the species of *Changwhania* are reviewed with description of a new species from China. All species of the genus are listed and a key to males is provided for the three species for which males are known. Due to the difficulty of identifying females, i.e. on external features (see Remarks under *C. ceylonensis*), the species *C. distanti* (a replacement name for *Deltocephalus capitatus* Distant), known only from its female syntype (in the Natural History Museum), is regarded as a species of uncertain identity and is not dealt with further. Its locality (India) and more rounded head spots (similar to Fig. 1A) suggests that it could be a synonym of one of the two widespread species, *C. terauchii* (but see discussion on variability under *C. ceylonensis*). An externally similar genus and species to *C. terauchii*, *Mayawa capitatus* (Kirkaldy), is found in Australia (see Fletcher, 2000), where *Changwhania* has yet to be recorded.

Type specimens and other materials examined are deposited in Entomological Museum of Northwest A & F University (NWAUFU), The Natural History Museum, London, UK (BMNH) and The Bernice P. Bishop Museum, Honolulu, Hawaii (BPBM). Morphological terminology follows Oman (1949), Kuoh (1966) and Zhang (1990).

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Changwhania Kwon, 1980: 96–97; Webb & Heller, 1990: 452. Type species: *Aconura terauchii* Matsumura, 1915.