



***Macrotrichia*, a new genus of Ledorinae (Hemiptera: Cicadellidae) from China**

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Abstract

Macrotrichia **gen. n.**, a new leafhopper genus of the tribe Ledorini (Hemiptera: Cicadellidae: Ledorinae), and three species, *M. deltata* **sp. n.**, *M. hamata* **sp. n.** and *M. flavomarginata* (Kuoh & Cai) **n. comb.**, from southern China are described and illustrated. A key to all species is provided, and the differences between the new genus and a closely related genus *Tituria* Stål are discussed.

Key words: Homoptera; Auchenorrhyncha; leafhopper; morphology; *Tituria*; new species

Introduction

The subfamily Ledorinae is a fairly large group of the 50 major subfamilies of leafhoppers and comprises 4 tribes (Dietrich, 2005) with over 450 species in 73 genera worldwide (Oman *et al.*, 1990). It is widely distributed and well represented in South East Asia and adjacent areas, usually on trees and shrubs. The ledorine fauna of China remains inadequately studied with about 130 species in 23 genera recorded (Li & Li, 2008). While sorting and identifying the ledorine material in China, we found two new species that resemble the species of the genus *Tituria* Stål, whose characteristics of external morphology and male genitalia were described by Linnavuori (1972) and Cai (1993) respectively, but had several peculiar features worthy of considering to establish a new genus for them. These taxa, *M. deltata* **sp. n.**, *M. hamata* **sp. n.** and *M. flavomarginata* (Kuoh & Cai, 1992) **n. comb.**, are described and illustrated in this paper.

Materials and methods

External morphology was observed and illustrated under a Nikon SMZ1500 Microscope. The male and female terminalia were dissected out and treated with 10% NaOH solution at approximately 80° C for several minutes, and then observed in a droplet of glycerol under the compound light microscope. The terminology of setal rows on legs follows Rakitov (1998).

The type specimens are deposited in the Entomological Museum of Northwest A&F University, Yangling, China.

***Macrotrichia* gen. n.**

Type species: *Macrotrichia deltata* **sp. n.**