



## A key to the genera of Tropidocephalini (Hemiptera: Fulgoromorpha: Delphacidae) of China with description of *Mucillnata rava*, new genus and species

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### Abstract

A new planthopper genus, *Mucillnata*, is established with a new species, *Mucillnata rava* **sp. nov.** as the type species, in the tribe Tropidocephalini, subfamily Delphacinae from southern China. A key to the known genera of the tribe from China is also provided and the differences between the new genus and closely related genera are discussed.

**Key words:** Taxonomy, Homoptera, Auchenorrhyncha, new taxa, China

### Introduction

Tropidocephalini is the second largest tribe of the subfamily Delphacinae containing 33 genera, distributed in the Oriental, Palearctic, Afrotropical, Australian and the Pacific Regions of the world. However, the majority of the species are found in the Oriental Region (Donaldson 1991; Chen 2003, Chen & Tsai 2009). Most species of the tribe feed on bamboo (Bambusoideae) or grasses (Poaceae) (Chen 2003, Chen & Tsai 2009). Though the richest species diversity of the tribe Tropidocephalini in the world are found in China, comprising 20 genera (Chen 2003, Chen & Tsai 2009, Ding 2006), several genera and species remain still to be discovered. In this paper we describe a new genus and species and provide a key to all the known genera of the tribe from China.

### Material and methods

The specimens used in this study are deposited in the Entomological Museum, Northwest A & F University, Yangling, Shaanxi, China (NWAUFU). Habitus photos were taken by using a Scientific Digital micrography system equipped with an Auto-montage imaging system and a high sensitive QIMAGING Retiga 4000R digital camera (CCD). Multiple photographs were compressed into final images. The terminology in this paper follow those of Ding (2006). Measurements of body length equal the distance between the apex of vertex and tip of abdomen. All measurements are in millimeters (mm).

### Results

#### Key to genera of Tropidocephalini from China

1. Vertex subtriangular (Fig. 1)..... 2
- Vertex quadrate or nearly so (Figs 2, 3, 5, 6, 7, 8, 20, 21, 24, 34, 37)..... 3
2. Vertex raised upwards at apex (Fig. 19); frons in midline more than 3.0 times wider than maximum width.....