



## ***Flatseta*, a new genus of Dikraneurini (Hemiptera: Cicadellidae: Typhlocybinae) from China, with description of a new species**

MENG JIAO<sup>1,2,3</sup> & MAOFA YANG<sup>1,2,3,4</sup>

<sup>1</sup>*Institute of Entomology, Guizhou University, Guiyang Guizhou, 550025, P. R. China*

<sup>2</sup>*The Provincial Special Key Laboratory for Development and Utilization of Insect Resources, Guizhou University, Guiyang Guizhou, 550025, P. R. China*

<sup>3</sup>*Guizhou Provincial Key Laboratory for Agricultural Pest Management of the Mountainous Region, Guizhou University, Guiyang Guizhou, 550025, P. R. China.*

<sup>4</sup>*Corresponding author. E-mail: ggdgly@126.com*

### **Abstract**

***Flatseta* gen. n.** described and illustrated based on type species *F. scimitara* **sp. n.** from China and placed in the typhlocybine tribe Dikraneurini. The new genus is unique among known Typhlocybinae in having modified setae distributed over the male pygofer appendage. Detailed morphological descriptions and illustration of the new genus are provided.

**Key words:** Hemiptera, Typhlocybinae, leafhopper, morphology, new genus

### **Introduction**

The main characteristic of the leafhopper tribe Dikraneurini is the presence in the hind wing of a submarginal vein extending around the wing apex, beyond the apex of vein 'R+M', then basad along the costal margin (Ahmed 1969). The new genus described herein appears to be unique among Dikraneurini based on the shape of setae on the male pygofer. This is the first time that the pygofer setae are used as a main diagnostic character for a genus of the tribe Dikraneurini. This new genus, based on a single new species, is described below. The type specimens are deposited in the Institute of Entomology, Guizhou University, Guiyang, China (GUGC).

### **Material and methods**

Dry specimens were used for preparing descriptions and illustrations. External morphology was observed under a stereoscopic microscope. Body length was measured with an ocular micrometer, in millimeters, from the apex of the head to the apex of the forewing in repose. The genital segments of the specimens examined were macerated in 10% NaOH, washed in water and transferred to glycerine. Male specimens were dissected under a MOTIC B1 SMS-168 Series microscope. Figures were made using an OLYMPUS CX41 compound microscope. Photographs were taken with a Keyence VHX-1000 and an Olympus E-520 digital camera. SEM photos were taken with a JEOL JCM-6000 scanning electron microscope. The digital images were then imported into Adobe Photoshop CS6 for labeling and plate composition.

### **Typhlocybinae: Dikraneurini**

#### ***Flatseta* gen. n.**

Type species: *Flatseta scimitara* **sp. n.**

**Description.** Color yellowish. Head (Fig. 2) with vertex produced in front, vertex median length longer than width between eye apices; coronal suture distinct, nearly half length of vertex. Face (Fig. 3) depressed in lateral view.