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Eleven new species of the *Homoneura (Homoneura) beckeri* group from Yunnan, China (Diptera, Lauxaniidae)

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Abstract

In the *Homoneura (Homoneura) beckeri* group, the following eleven species from Yunnan, China are described as new to science: *H. (H.) baihualingensis* **sp. nov.**, *H. (H.) brevituba* **sp. nov.**, *H. (H.) conica* **sp. nov.**, *H. (H.) cornis* **sp. nov.**, *H. (H.) dulongjiangica* **sp. nov.**, *H. (H.) ensata* **sp. nov.**, *H. (H.) gemmiformis* **sp. nov.**, *H. (H.) latizona* **sp. nov.**, *H. (H.) longiprocessa* **sp. nov.**, *H. (H.) pilifera* **sp. nov.** and *H. (H.) trilineata* **sp. nov.**. A key to the species of the *H. (H.) beckeri* group in the Oriental Region is presented.

Key words: Diptera, Lauxaniidae, *Homoneura (Homoneura) beckeri* group, new species, Yunnan, China

Introduction

The *Homoneura (Homoneura) beckeri* group (Lauxaniidae: Homoneurinae) was proposed by Papp (2006). Shi & Yang (2009) described 11 species of this species group from China. This group can be recognized by the following characteristics: body black or brown with bluish or whitish gray pruinescence; frons with two narrow brown stripes along *or* rows and a narrow brown triangular median stripe; arista plumose; mesoscutum with 0+3 *dc*; wing at most with brown mark along crossveins *r-m* and *dm-cu*; protandrium circular and hypandrium W-shaped. This species group is distributed in the Oriental Region with 28 known species in the world (see Appendix for list of species), including the 11 new species from Yunnan Province. A key to separate all species of the group in the Oriental Region is presented.

Material and methods

Genitalia preparations were made by removing and macerating the apical portion of the abdomen in cold saturated NaOH for 6 hours. After examination, they were transferred to fresh glycerine and stored in a microvial on the pin below the specimen or moved to an ethanol tube together with the wet specimens. Specimens examined were deposited in the Entomological Museum of China Agricultural University (CAU), Beijing. The general terminology follows McAlpine (1981) and Shewell (1987). The following abbreviations for bristles are used: *a*—anterior, *acr*—acrostichal, *ad*—anterior dorsal, *anepst*—anepisternal, *apv*—apical ventral, *av*—anterior ventral, *dc*—dorsocentral, *kepst*—katepisternal, *oc*—ocellar, *or*—fronto-orbital, *pd*—posterior dorsal, *prsc*—prescutellar, *pv*—posterior ventral.