



## Notes on the *Homoneura (Homoneura) beckeri* group from the Oriental Region, with descriptions of ten new species from China (Diptera: Lauxaniidae)

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### Abstract

In the *Homoneura (Homoneura) beckeri* group, the following ten species are described as new to science: *H. (H.) apicomata* sp. nov., *H. (H.) columnaria* sp. nov., *H. (H.) convergens* sp. nov., *H. (H.) flavida* sp. nov. and *H. (H.) latissima* sp. nov., *H. (H.) nigritarsis* sp. nov., *H. (H.) semicircularis* sp. nov., *H. (H.) tortifurcata* sp. nov., *H. (H.) yinggelingica* sp. nov. and *H. (H.) zhangae* sp. nov. A list of the species of the *Homoneura (Homoneura) beckeri* group in the Oriental Region is provided. A key to separate them is presented.

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

### Introduction

The *Homoneura (Homoneura) beckeri* group (Lauxaniidae: Homoneurinae) is distributed in the Oriental Region with seven known species in the world (Kertész 1900; de Meijere 1910; Malloch 1927, 1929; Sasakawa 1992; Yang, Hu & Zhu, 2002; Gao & Yang, 2003; Li, Li & Yang, 2008) (see Appendix for list of species). Sasakawa (1992) proposed three species, *H. (H.) beckeri* (Kertész), *H. (H.) fasciventris* Malloch and *H. (H.) immaculata* (de Meijere), belonging to the *H. (H.) fasciventris* group according to two characters: protandrium circular and hypandrium W-shaped. Subsequently, Papp (2006) proposed the *H. (H.) beckeri* group, and the name is used in the present paper. It is easily recognized by the following characters: body black or brown with bluish or whitish gray pollen; frons with two narrow brown stripes along *or* rows and a narrow brown triangular median stripe; arista plumose; mesoscutum with 0+3 *dc*; tarsomere 5 black or brown on at least apical 1/3 in most of species, yellow or brownish yellow in few species; wing at most with brown stripe-like spot on *r-m* and *dm-cu*; protandrium circular and hypandrium W-shaped. Due to examination of the limited specimens, the females of *H. (H.) columnaria*, *H. (H.) convergens*, *H. (H.) nigritarsis*, *H. (H.) yinggeling*, *H. (H.) zhangae* have not been found, but they can likely be identified according to the following outer characters: color of antenna, spots of face, spots of anepisternum and katepisternum, color of tarsomere 5 and spots of abdominal tergites. Characters of the spermathecae will be supplemented in subsequent research.

In the present paper, 10 new species in this group are reported from China. A key to separate all species of the group in the Oriental Region is presented.

### Material and methods

The general terminology follows McAlpine (1981) and Shewell (1987). Genitalia preparations were made by