



Two new species of the genus *Phobeticomyia* from China (Diptera, Lauxaniidae)

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Abstract

The following two species are described as new to science: *Phobeticomyia digitiformis* **sp. nov.** and *Phobeticomyia uncinata* **sp. nov.**. *Phobeticomyia spinosa* Sasakawa is newly recorded for China. A key to separate these species is presented.

Key words: Diptera, Lauxaniidae, *Phobeticomyia*, new species, China

Introduction

The genus *Phobeticomyia* Kertész (Lauxaniidae: Homoneurinae) is distributed in the Oriental Region with 5 previously described species (de Meijere 1910; Kertész 1915; Malloch 1929; Sasakawa 1987; Sasakawa & Pong 1990; Stuckenberg 1971; Shewell 1977; Walker 1857) (see Appendix for list of species). Two species *Phobeticomyia boettcheri* Frey, 1927 and *Phobeticomyia punctata* (Sasakawa, 1990) are doubtful as to whether they belong to the genus. Malloch (1929) established the subgenus *Poecilomyza* of the genus *Homoneura* van der Wulp based on *Phobeticomyia boettcheri* Frey, 1927 as a type species, and Shewell (1977) erected it as the genus *Poecilomyza*; *Phobeticomyia punctata* (Sasakawa, 1990) is placed in the genus *Poecilomyza* in the original paper. Both species are placed in the genus *Phobeticomyia* in the BioSystematic Database of World Diptera (BDWD). Basing on the original descriptions of the two species *Phobeticomyia boettcheri* Frey and *Phobeticomyia punctata* (Sasakawa), they could not be placed in the genus *Phobeticomyia*. In addition, *Lamprogaster punctata* Walker, 1856 has been even regarded as a species of the genus but it is placed in 'Ortalides' as new combination in British Museum (N.H.) according to Stuckenberg (1971), and it belongs to the family Platystomatidae in BDWD.

The genus can be easily identified by the following characters: body dark blackish brown; frons wider than long, with two velvety brownish black stripes extending to ocellar triangle; anterior edge with a pale yellow lunar spot; face shining with a prominent bulbous convexity (it differs from the genus *Homoneura*, in that the latter face is plane without bulbous convexity), brownish black at least on dorsal 1/2 and variable (black, yellow, or spotted) on ventral 1/2; arista long plumose; *oc* strong, as long or longer than anterior *or*; mesoscutum with a thin grayish white stripe between two wide brown median stripes, and a thin grayish white stripe along *dc* rows; 0+3 *dc*; all tibiae usually with a subapical ring and mid tibia with 3 *pv*. Wing brown, with hyaline spots and apical or preapical stripes; small black spines on costa reaching tip of R₄₊₅ (Stuckenberg, 1971).

In the present paper, four species are reported from China. Among them, two species are described as new to science. A key to all species is presented.