



Review of the genus *Parerigone* Brauer (Diptera: Tachinidae) with five new species from China

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Abstract

The genus *Parerigone* (Diptera, Tachinidae) is reviewed. Five new species from China, *P. atrisetosa* sp. nov., *P. flava* sp. nov., *P. flavisquama* sp. nov., *P. laxifrons* sp. nov. and *P. wangi* sp. nov., are described and illustrated. *Parerigone flavihirta* (Chao & Sun) is proposed as a new synonym of *P. takanoi* Mesnil. Diagnosis of species examined and a key to the 15 species of *Parerigone* are provided.

Key words: Diptera, Phasiinae, *Parerigone*, new species, new synonym, key

Introduction

The genus *Parerigone* (Diptera, Tachinidae) was erected by Brauer (1898) with a single species, *P. aurea*, from Ussuri in the Russian Far East. Later, Mesnil (1953, 1957) added two species of the genus from Myanmar. Herting (1981) recorded one from Japan and Chao *et al.* (1990) reported five species from China. Shima (2011) described one species from Nepal and gave notes on the male and female terminalia and a key to 11 species of this genus. During our systematic study of the Phasiinae of China, we examined many tachinid specimens and type specimens. In addition to the previously described species, we recognized five new species from China. The descriptions and illustration of these new species are given below. Additionally, we confirm *P. flavihirta* (Chao & Sun) as a synonym of *P. takanoi* Mesnil, as previously suggested by Shima (2011). The diagnoses of species examined and a key to 15 species of *Parerigone* are provided.

Material and methods

Material was studied from the collections of the following institutions:

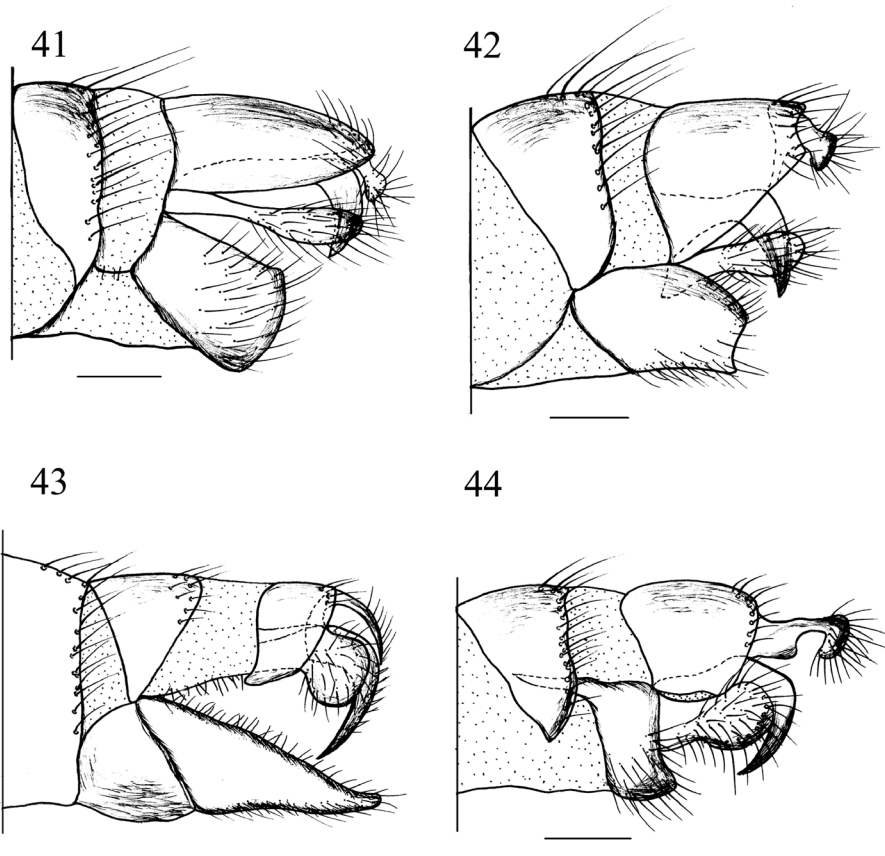
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Terminology follows McAlpine (1981) except for the terms phallus, pregonite and postgonite in the male terminalia, which follows Sinclair (2000) (instead of aedeagus, gonopod and paramere of McAlpine 1981). Examinations were made with a stereoscopic microscope, Zeiss Discovery V8. Measurements were made following Shima (1996).

Consecutive digital images of adults (Figs. 1–20) were taken with a Canon EOS 7D and images were blended with Helicon Focus software.



FIGURES 41–44. Female terminalia in lateral view. **41.** *Parerigone atrisetosa* sp. nov. **42.** *Parerigone flava* sp. nov. **43.** *Parerigone flavisquama* sp. nov. **44.** *Parerigone laxifrons* sp. nov. Scale bars = 0.25 mm.

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