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The parerigonine genus *Paropesia* Mesnil (Diptera, Tachinidae), with descriptions of three new species from East Asia

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Abstract

Three new species of *Paropesia* Mesnil (Phasiinae, Parerigonini) are described: *P. discalis* **sp. nov.** from China and Myanmar, *P. grisea* **sp. nov.** from Japan and *P. tessellata* **sp. nov.** from Myanmar and China. The type species of *Paropesia*, *P. nigra* Mesnil, is redescribed. The male and female terminalia of the new species are described and illustrated and characteristics of the genus *Paropesia* are briefly discussed.

Key words: taxonomy, Parerigonini, new species, *Parerigone*, Phasiinae.

Introduction

Since Mesnil (1970) erected the genus *Paropesia*, this genus has been known from only the female holotype of the type species, *P. nigra* Mesnil. Although Chao *et al.* (1990) recorded the male of *P. nigra* from China, this was based on a misidentification of another species. O'Hara *et al.* (2009) in the catalog of Chinese Tachinidae followed Chao *et al.* (1990) on the record of *P. nigra* from China. Some Chinese authors, such as Chao *et al.* (1998), Chao & Zhou (2001), Fang & Wu (2001) and Hua (2006), also appear to have followed this misidentification in their regional catalogs. Herein are described three new species of this poorly known genus from China, Japan and Myanmar.

Mesnil (1970) considered this genus to be close to *Parerigone* Brauer & Bergenstamm in sharing the following external characters: triangularly set postpronotal setae, 2 widely separated postsutural intra-alar setae, no anepimeral setae, only 3 pairs of marginal scutellar setae, large metathoracic spiracle with two large lappets, and curved piercing female terminalia. He also mentioned many characters of *Paropesia* that distinguish it from *Parerigone*, but due to the finding of additional species of *Parerigone* (Herting 1981; Chao *et al.* 1990; Shima 2011), *Paropesia* is now discriminated from *Parerigone* in external features only by bare eyes (*Parerigone* with haired eyes) and presence of black hairs on the occiput (*Parerigone* with only white hairs). *Paropesia* is redefined below taking into consideration structures of the male and female terminalia.

Material and Methods

Material was studied from the collection of the following institutions:

BLKU	Biosystematics Laboratory, Graduate School of Social & Cultural Studies, Kyushu University, Motooka, Fukuoka, Japan.
FMNH	Finnish Museum of Natural History, Zoological Museum, University of Helsinki, Helsinki, Finland.
IZCAS	Institute of Zoology, Chinese Academy of Sciences, Beijing, China.
KUM	Kyushu University Museum, Kyushu University, Hakozaki, Fukuoka, Japan.
NHRS	Naturhistoriska riksmuseet, Stockholm, Sweden.

Fukushi (Hirosaki University, Hirosaki), K. Ohara (Tokushima Prefectural Museum, Tokushima), T. Pape (Zoologisk Museum, Copenhagen), P. Viikmaa (Finnish Museum of Natural History, Zoological Museum, Helsinki) and D.M. Wood (Agriculture and Agri-Food Canada, Ottawa) for their kind help in examining types and other materials. I would also like to thank M. Maruyama (Kyushu University Museum, Fukuoka) who kindly helped to take digital images of flies. Thanks should also be due to two anonymous referees for their valuable comments on the manuscript. James E. O'Hara (Agriculture and Agri-Food Canada) gave me valuable suggestions and helped in literature. I owe him very much in helping to prepare the manuscript.

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