



The *Pachyprotasis indica* group (Hymenoptera: Tenthredinidae) in China with descriptions of eight new species

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Abstract

The *Pachyprotasis indica* group is revised from China and a key is provided for all species associated with this group. Eight new species are described: *P. rufigaster* **sp. nov.** (Yunnan), *P. fulvicornis* **sp. nov.** (Hunan), *P. jiangi* **sp. nov.** (Hubei), *P. paraspinilabria* **sp. nov.** (Sichuan), *P. rufotegulata* **sp. nov.** (Sichuan), *P. spinilabria* **sp. nov.** (Hubei), *P. youi* **sp. nov.** (Guizhou), *P. zhouhui* **sp. nov.** (Yunnan).

Key words: Hymenoptera, Tenthredinidae, *Pachyprotasis*, *indica* group, new species, China

Introduction

Specimens of *Pachyprotasis* Hartig, 1837 belong to the most frequently collected sawflies in China. Together with *Tenthredo* Linné, 1758 s.l. (289 species), *Arge* Schrank, 1802 (110 species), *Macrophya* Dahlbom, 1835 (70 species), *Neostromboceros* Rohwer, 1912 (52 species) and *Dolerus* Panzer, 1801 (51 species), *Pachyprotasis* (80 species) belongs to the most species-diverse Chinese sawfly genera (Wei *et al.* 2006). In a revision of the *formosana* group of *Pachyprotasis*, we recently provided a key for the identification of the species groups (Zhong & Wei, 2010).

The *indica* group as it is treated here can easily be separated from other groups by the following characters: head and body red yellow to brown, at least abdomen with red spots. Until now 10 species have been described, which are here associated with the *indica* group and distributed in Myanmar, China and India (*P. fulvomaculata* (Zhong & Wei, 2002), *P. kalatopensis* (Saini & Kalia, 1989), *P. hepaticolor* (Malaise, 1945), *P. indica* (Forsius, 1931), *P. maculiventris* (Saini & Vasu, 1998), *P. maculotergitis* (Zhu & Wei, 2008), *P. rubiapicilia*, *P. rubiginosa* (Nie & Wei, 1999), *P. rufocinctilia* (Wei & Nie, 1998), *P. rufocephala* (Wei & Lin, 2005)). Only *P. hepaticolor* and *P. indica* were known from China until Wei and his co-workers described six additional species from this region (*P. fulvomaculata*, *P. maculotergitis*, *P. rubiapicilia*, *P. rubiginosa*, *P. rufocephala*, *P. rufocinctilia*). Here we describe eight new species of this group and provide a key to all known species.

Material and methods

The specimens were examined with a Motic-DM-143 dissection microscope. Images were taken with a Nikon D2x digital camera and further processed with Adobe Photoshop CS2. Under each species of the *indica* group treated here, we include only selected references for the journal papers or books which are regarded as important. Usually these works include illustrations and keys for the species concerned. For each species the