



<http://dx.doi.org/10.11646/zootaxa.3914.1.1>

<http://zoobank.org/urn:lsid:zoobank.org:pub:AAD0A1E5-4DFE-4853-A071-BA62D1F91D25>

Six new Chinese species of the *Pachyprotasis melanosoma* group (Hymenoptera: Tenthredinidae) with a key to the species

YIHAI ZHONG^{1,4}, ZEJIAN LI^{2,3} & MEICAI WEI³

¹Environment and Plant Protection Institute of Chinese Academy of Tropical Agriculture, Danzhou Scientific Observing and Experimental Station of Agro-Environment, Ministry of Agriculture, Haikou, Hainan, 571101, China.

²Lishui Academy of Forestry, Lishui, Zhejiang, 323000, China. E-mail: lizejian2006@163.com

³Laboratory of Insect Systematics and Evolutionary Biology, Central South University of Forestry and Technology, Changsha, Hunan, 410004, China. E-mail: weimc@126.com

⁴Corresponding author. E-mail: Zhongyihai11@163.com

Table of contents

Abstract	1
Introduction	2
Material and methods	2
Results	2
Key to species of <i>Pachyprotasis melanosoma</i> group	2
<i>Pachyprotasis albicoxis</i> Malaise, 1931	4
<i>Pachyprotasis chenghanhuai</i> Wei & Zhong, 2006	4
<i>Pachyprotasis cinctulata</i> Wei & Zhong, 2002	4
<i>Pachyprotasis coximaculata</i> Zhong & Wei, sp. nov.	5
<i>Pachyprotasis coxipunctata</i> Zhong & Wei, sp. nov.	6
<i>Pachyprotasis fulvocoxis</i> Wei & Zhong, 2002	7
<i>Pachyprotasis hengshani</i> Zhong & Wei, sp. nov.	7
<i>Pachyprotasis maculopediba</i> Wei & Zhong, 2002	8
<i>Pachyprotasis maculopleurita</i> Wei & Zhong, 2002	9
<i>Pachyprotasis maculoscutellata</i> Zhong & Wei, sp. nov.	9
<i>Pachyprotasis mai</i> Zhong & Wei, 2013	10
<i>Pachyprotasis melanosoma</i> Wei & Zhong, 2002	11
<i>Pachyprotasis micromaculata</i> Wei, 1998	12
<i>Pachyprotasis nigroclypeata</i> Wei, 1998	12
<i>Pachyprotasis nitididorsata</i> Wei & Zhong, 2002	13
<i>Pachyprotasis pailongensis</i> Zhong & Wei, sp. nov.	13
<i>Pachyprotasis qilianica</i> Zhong & Wei, sp. nov.	14
<i>Pachyprotasis xibei</i> Zhong & Wei, 2013	15
Acknowledgments	15
References	16

Abstract

The *Pachyprotasis melanosoma* group is defined as a part of the former *P. rapae* group, and a key to this species of this group from China is provided. Six new species from China are described in this paper: *P. coximaculata* Zhong & Wei, sp. n.; *P. coxipunctata* Zhong & Wei, sp. n.; *P. hengshani* Zhong & Wei, sp. n.; *P. maculoscutellata* Zhong & Wei, sp. n.; *P. pailongensis* Zhong & Wei, sp. n. and *P. qilianica* Zhong & Wei, sp. n.

Key words: Sawflies, Symphyta, taxonomy, Oriental, Palearctic

References

- Malaise, R. (1931a) Blattwespen aus Wladiwostok und anderen Teilen Ostasiens. *Entomologisk Tidskrift*, 52 (2), 97–159.
- Malaise, R. (1931b) Neue japanische Blattwespen. *Zoologischer Anzeiger*, 94 (5–8), 201–213.
- Naito, T. (1982) Chromosome Number Differentiation in Sawflies and its Systematic Implication (Hymenoptera, Tenthredinidae). *Kontyû*, 50 (4), 569–587.
- Naito, T. (2004) Species Diversity of Sawflies in Hyogo Prefecture, Medial Japan. *Monograph of Nature and Human Activities*, 1, 1–87.
- Rohwer, S.A. (1915) Descriptions of new species of Hymenoptera. *Proceedings of the United States National Museum*, 49 (2105), 205–249.
<http://dx.doi.org/10.5479/si.00963801.2105.205>
- Ross, H.H. (1945) Sawfly genitalia: terminology and study techniques. *Entomological News*, 61 (10), 261–268.
- Taeger, A. (2013) *Pachyprotasis albicoxis* Malaise, 1931, female, holotype. *figshare*.
<http://dx.doi.org/10.6084/m9.figshare.840545>
- Taeger, A., Blank, S.M. & Liston, A.D. (2010) World Catalog of Symphyta (Hymenoptera). *Zootaxa*, 2580, 1–1064.
- Viitasaari, M. (2002) The Suborder Symphyta of the Hymenoptera. In: Viitasaari M. (Ed.), *Sawflies (Hymenoptera, Symphyta) I. A review of the suborder; the Western Palaearctic taxa of Xyeloidea and Pamphilioidea*. Tremex Press, Helsinki, pp. 11–174.
- Wei, M.C. & Nie, H.Y. (1998) Eleven new species of *Pachyprotasis* [sic] Hartig from Funiushan (Hymenoptera: Tenthredinidae). In: Shen, X.C., Shi, Z.Y. (Ed.), *The fauna and taxonomy of insects in Henan. Vol. 2. Insect of Funiushan Region*. China Agricultural Science and Technology Press, Beijing, pp. 162–169.
- Wei, M.C., Nie, H.Y. & Taeger, A. (2006) Sawflies (Hymenoptera: Symphyta) of China - Checklist and Review of Research. In: Blank, S.M., Schmidt, S. & Taeger, A. (Ed.) *Recent Sawfly Research: Synthesis and Prospects*. Goecke & Evers, Keltern, pp. 505–574.
- Zhong, Y.H. & Wei, M.C. (2002) Six New Species of *Pachyprotasis* Hartig from Mt. Funiu, Henan, China (Hymenoptera: Tenthredinidae). In: Shen, X.C. (Ed.), *The Fauna and Taxonomy of Insects in Henan vol. 5. Insects of The Mountains Taihang and Tongbai Region*. China Agricultural Science and Technology Press, Beijing, pp. 216–223.
- Zhong, Y.H. & Wei, M.C. (2002) Nine New Species of *Pachyprotasis* Hartig from Mt. Funiu, Henan, China (Hymenoptera: Tenthredinidae). In: Shen, X.C. (Ed.), *The Fauna and Taxonomy of Insects in Henan. Vol. 5. Insects of The Mountains Taihang and Tongbai Region*. China Agricultural Science and Technology Press, Beijing, pp. 224–234.
- Zhong, Y.H. & Wei, M.C. (2006) Two new species of *Pachyprotasis* Hartig from China (Hymenoptera, Tenthredinidae). *Acta Zootaxonomica Sinica*, 31 (3), 621–623.
- Zhong, Y.H. & Wei, M.C. (2010a) The *Pachyprotasis formosana* group (Hymenoptera, Tenthredinidae) in China: identification and new species. *Zootaxa*, 2523, 27–49.
- Zhong, Y.H. & Wei, M.C. (2010b) The *Pachyprotasis indica* group (Hymenoptera, Tenthredinidae) in China with descriptions of eight new species. *Zootaxa*, 2670, 1–30.
- Zhong, Y.H. & Wei, M.C. (2012) A review of the *Pachyprotasis pallidistigma* species group (Hymenoptera: Tenthredinidae) from China, with descriptions of three new species. *Zootaxa*, 3242, 1–38.
- Zhong, Y.H. & Wei, M.C. (2013) Two new speices of *Pachyprotasis malanosoma* group (Hymenoptera: Tenthredinidae) from China. *Acta Zootaxonomica Sinica*, 38 (4), 849–854.