



Revision of *Emphytopsis* Wei & Nie (Hymenoptera: Tenthredinidae) with descriptions of seven new species from China and Japan

MEICAI WEI*, YI XU** & GENGYUN NIU

Lab of Insect Systematics and Evolutionary Biology, Central South University of Forestry and Technology, 498 South Shaoshan Road, Changsha 410004, P. R. China.

* Corresponding author; E-mail: weimc@126.com

** Present address: Ehuangzhan Nature Reserve, Xiashuang, Hekou Town, Yangchun, Guangdong, 529631, P. R. China

Abstract

Emphytopsis Wei & Nie, 1998 of Allantinae, Tenthredinidae is revised. Seven species are described as new: *Emphytopsis nigricornis* Wei & Xu, sp. nov., *E. quadrata* Wei & Xu, sp. nov., *E. unimaculata* Wei, sp. nov., *E. zhongi* Wei & Niu, sp. nov., *E. lii* Wei, sp. nov. from China, *E. shinoharai* Wei & Niu, sp. nov. and *E. flatoserrula* Wei, sp. nov. from Japan. *E. nigromaculata* (Takeuchi, 1952) new combination is transferred from *Taxonus* Hartig. A key to the species of the genus is presented. *Emphytopsis punctata* Wei & Nie, 1998 and *E. nigromaculata* (Takeuchi) are redescribed. The previously unknown male of *E. punctata* is described.

Key words: Allantinae, Allantini, Taxonina, *Emphytopsis*, new species, new combination, China, Japan

Introduction

Emphytopsis Wei & Nie, 1998 is a small genus described from East China with hitherto one known species (Wei & Nie, 1998b). The genus is a member of the tribe Allantini, subfamily Allantinae of Tenthredinidae. *Emphytopsis* is very similar to *Allomorpha* Cameron, 1876 in general appearance but differs from the latter in structure of antenna, wing venation, punctation and colour pattern of body.

During investigations on the sawfly fauna of E. China from 2006 to 2010, five undescribed species of *Emphytopsis* were collected from Anhui, Jiangxi, Zhejiang and Hunan Provinces.

Examination of the type of the Japanese *Taxonus nigromaculatus* Takeuchi, 1952 shows that it belongs to *Emphytopsis*. Two other new species from Japan are also found in the sawfly collections of Senckenberg Deutsches Entomologisches Institut, Müncheberg, Germany and National Museum of Nature and Science, Tokyo, Japan.

Emphytopsis is revised and seven new species from China and Japan are described below.

Material and Methods

Images of adults were taken with a Nikon D2X digital camera. Images of lancet and serrulae were taken with a Motic BA600MOT. Images showing details were compiled from several partially focused images, which were taken with a LEICA S8APO stereo-microscope, by combining the focused areas in Helicon Focus (©Helicon-Soft). The specimens were examined with a LEICA S8APO stereo-microscope.

Terminology of sawfly genitalia follows Ross (1945). Terminology of wing venation follows Niu & Wei (2010).

Specimens examined during this study are deposited in the following collections: Insect Collection of Central South University of Forestry and Technology, Changsha/China (CSCS); National Museum of Nature and Science, Tokyo/Japan (NMNS); Senckenberg Deutsches Entomologisches Institut, Müncheberg/Germany (DEI); Osaka Prefecture University, Sakai, Japan (OPU).