The types of Anthomyiidae (Diptera) in the Shanghai Entomological Museum, Chinese Academy of Science, China

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Accepted by S. Nihei: 13 Nov. 2013; published: 29 Jan. 2014
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(Zootaxa 3756)

67 pp.; 30 cm.
29 Jan. 2014
ISBN 978-1-77557-320-3 (paperback)
ISBN 978-1-77557-321-0 (Online edition)
Abstract

An annotated list of the type-specimens of Anthomyiidae deposited in the Shanghai Entomological Museum, China, is presented. A total of 196 holotypes and 479 paratypes representing 212 nominal species (207 valid, 5 synonyms) were recognized and are listed alphabetically. Bibliographical data of the original description, labels and condition of the type-specimens and the current name of the species are provided. At the end, a nomenclatural summary and a geographic summary are provided.

Key words: Anthomyiidae, type-specimens, Shanghai Entomological Museum, China

Introduction

Anthomyiidae is a large and diverse family of Muscoidea, Diptera. 1941 species have been described from all over the world so far (Pape et al. 2011), most of them from the Holarctic Region.

In China, the most prolific authority on Anthomyiidae was Zide Fan, researcher of the Shanghai Entomological Museum between 1964 and 2000. The most comprehensive work on the family under a Chinese perspective is that of Fan et al. (1988b), a monumental contribution with 396 pages listing 43 genera and 353 species. Fan and his colleagues, especially Jianyi Wu, Zhizi Chen and Yinghong Zhong, described over 200 species of Anthomyiidae from the 1970s to the 1990s. Their collections, including almost all of their types are deposited in the museum. Two other dipterists also working on the family, Anxiao Deng and Yan Feng, deposited their types in this museum as well.

Currently the collection of the Shanghai Entomological Museum contains specimens of 488 species of Anthomyiidae. A total of 675 type-specimens (196 holotypes, 479 paratypes) representing 212 nominal species (207 valid names and 5 synonyms) are deposited in the Shanghai Entomological museum. This paper presents detailed information of all Anthomyiidae types preserved in the Shanghai Entomological Museum.

Material and methods

Names are listed in alphabetical order of the specific epithet. Combinations and spelling of names follow the Catalogue of Palaearctic Diptera: Anthomyiidae (Dely-Draskovits, 1993), the Flies of China (Wei et al., 1998), and the original descriptions. For each species, the label data of the type-specimen(s) are given first. The collection data and identification labels are transcribed verbatim and quoted in double quotation marks one by one; with a forward slash (/) separating lines (some tags without taxonomic significance are not included). In case of handwriting on printed labels, the handwritten is reproduced in italics; completely handwritten or completely printed labels are reproduced in regular font, following Ribeiro et al. (2007). The conditions of the types are given as well. Notes and corrections are provided if necessary. Finally, the current name (combination, junior synonym) of the species is given.

Seven species, whose types should be deposited at the Shanghai Entomological Museum, were not found and not included in our list. We are not sure whether these type specimens are actually housed in the Shanghai Entomological Museum. Most probably they were not properly labelled when described and published. Within the next three years, we plan to revise the Chinese anthomyiid flies and, then, if these types cannot be found they will
Acknowledgements

We thank Mr. Anxiao Deng and Yan Feng for donating valuable specimens to Shanghai Entomological Museum. We thank Prof. Zide Fan, Mrs. Weinian Zhang and Li Dai, Mr. Haisheng Yin and Xianwei Liu for providing important records. We thank Dr. David Rédei and Dr. Xin Yu for their corrections of the language. We also thank Dr. Silvio Nihei for the critical reading of the manuscript and the important suggestions, which significantly improved this work. Four anonymous reviewers provided valuable suggestions and corrections to earlier versions of the manuscript.

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