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New species and records of Trypetinae (Diptera: Tephritidae) from China

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Abstract

Eight new species of Trypetinae (Diptera: Tephritidae) from China are described and illustrated. The new species are *Cornutrypeta chishuiensis* Chen **sp. nov.**, *C. motuonia* Chen **sp. nov.**, *Hoplandromyia hubeiensis* Chen **sp. nov.**, *H. motuonica* Chen **sp. nov.**, *Magnimyiolia disrupta* Chen **sp. nov.**, *M. tengchongnica* Chen **sp. nov.**, *M. tibetana* Chen et Wang **sp. nov.** and *M. yunnanica* Chen et Wang **sp. nov.** Keys to the known species of the genera *Cornutrypeta* Han et Wang and *Hoplandromyia* Bezzi from the World, and the genera *Magnimyiolia* Shiraki from East Asia are updated and provided. *C. spinifrons* (Schroeder) is newly recorded from China, and the female of *C. hunanica* Chen et Wang is recorded, described and illustrated for the first time. Illustrations of the type of *M. huanana* Wang and a new distribution of *C. hunanica* Chen et Wang are provided.

Key words: Diptera, Tephritidae, Trypetinae, New species, China

Introduction

Recent field trips and sorting of several museum and donated materials to Institute of Zoology, Chinese Academy of Sciences (IZCAS) of *Cornutrypeta* Han et Wang, *Hoplandromyia* Bezzi and *Magnimyiolia* Shiraki has yielded several new species, together with new information on previously known taxa. These new findings enable an updating of the present knowledge of these genera, all of which belong in the tribe Trypetini in subfamily Trypetinae. The additional 8 new species are *Cornutrypeta chishuiensis* Chen **sp. nov.**, *C. motuonia* Chen **sp. nov.**, *Hoplandromyia hubeiensis* Chen **sp. nov.**, *H. motuonica* Chen **sp. nov.**, *Magnimyiolia disrupta* Chen **sp. nov.**, *M. tengchongnica* Chen **sp. nov.**, *M. tibetana* Chen et Wang **sp. nov.** and *M. yunnanica* Chen et Wang **sp. nov.** Keys to the species of *Cornutrypeta* Han et Wang and *Hoplandromyia* Bezzi from the World and *Magnimyiolia* Shiraki from East Asia are updated. Additionally, *C. spinifrons* (Schroeder) is recorded from China for the first time. The female of *C. hunanica* Chen et Wang is also newly recorded.

Terminology and abbreviations

The general morphological terminology follows White *et al.* (1999) and McAlpine (1981), while head descriptions of *Cornutrypeta* Han et Wang follow Han *et al.* (1993). Lengths of body and wing were measured in millimeters. The following acronyms are used for specimen depositories: **IZCAS** (Institute of Zoology, Chinese Academy of Sciences, Beijing, 100101, P. R. China), **IPPE** (Institute of Plant Physiology and Ecology, Chinese Academy of Sciences, Shanghai 200032, P. R. China), **HU** (Hebei University, Baoding, 071002, P.R. China), **YU** (Yangtze University, Jingzhou, 434023, P.R. China).

Cornutrypeta Han et Wang, 1993

Cornutrypeta Han et Wang, 1993: 169. Type species: *Trypeta superciliata* Frey, 1935, by original designation.