



Review of the *Hemyda* Robineau-Desvoidy of China (Diptera: Tachinidae)

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Abstract

The Chinese species of *Hemyda* Robineau-Desvoidy (Phasiinae, Cyndromyiini) are revised. Five species are recognized, consisting of the previously recorded species *H. hertingi* Ziegler & Shima, *H. obscuripennis* (Meigen) and *H. vittata* (Meigen), one new species from NW Yunnan, *Hemyda deqinensis* **sp. nov.**, and one new record for China, *H. dominikae* Draber-Moňko. A generic diagnosis of *Hemyda* is provided, each of the previously described species is diagnosed, the new species is described, and a key is given to the five Chinese species.

Key words: taxonomy, Phasiinae, Cyndromyiini, new species, key

Introduction

The tachinid genus *Hemyda* was erected by Robineau-Desvoidy (1830) for the single species *H. aurata*, from North America, which belongs to the tribe Cyndromyiini of the subfamily Phasiinae (Diptera, Tachinidae). Tschorsnig (1985) and Cerretti *et al.* (2014) confirmed the monophyly of the tribe Cyndromyiini and included *Lophosia* Meigen, *Cyndromyia* Meigen, *Phania* Meigen, *Besseria* Robineau-Desvoidy and *Hemyda* in this tribe. Species of the genus *Hemyda* are distinguishable from other Cyndromyiini genera by their mostly pale occipital setulae, abdominal sternites well exposed, hind margin of eye usually indented and by the absence of a preapical posteroventral seta on the hind tibia (Tschorsnig & Richter 1998).

A few species described in other genera were later added to *Hemyda*: *Phania obscuripennis* Meigen, 1824 and *P. vittata* Meigen, 1824 from France, *Prosopea americana* Bigot, 1889 from Mexico and *Eivibrissa huttoni* Malloch, 1931 from New Zealand. Reinhard (1955, 1958) described *Hemyda zonula* and *H. decumata* from Mexico, Guimarães (1979) described *H. conopoides* from Brazil and Ziegler & Shima (1996) described *H. hertingi* from Russia. More recently, Draber-Moňko (2008) described *H. dominikae* based on a female specimen from North Korea. Consequently, prior to this study there were 10 species in the genus, from the Nearctic, Neotropical and Palearctic regions. Among these species only one, *H. hertingi*, was recorded from China (including Taiwan) in the recent catalog of Chinese Tachinidae by O'Hara *et al.* (2009). Later, *H. obscuripennis* and *H. vittata* were newly recorded from China (Liaoning) by Zhang & Fu (2011).

In this paper five species of *Hemyda* are recognized from China. These are the three previously reported species, *H. hertingi*, *H. obscuripennis* and *H. vittata*, a newly described species from north-western Yunnan, *Hemyda deqinensis* **sp. nov.**, and *H. dominikae*, previously known only from North Korea and here newly recorded from north China. The male of *H. dominikae* is described for the first time. The four previously described species are diagnosed and all five species are illustrated. A key to the five Chinese species of *Hemyda* is provided.

Material and methods

The material examined during this study belongs to the following institutions: