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

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Abstract

The Chinese species of *Hemyda* Robineau-Desvoidy (Phasiinae, Cylindromyiini) 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-Mońko. 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, Cylindromyiini, 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 Cylindromyiini of the subfamily Phasiinae (Diptera, Tachinidae). Tschorsnig (1985) and Cerretti et al. (2014) confirmed the monophyly of the tribe Cylindromyiini and included *Lophosia* Meigen, *Cylindromyia* Meigen, *Phania* Meigen, *Besseria* Robineau-Desvoidy and *Hemyda* in this tribe. Species of the genus *Hemyda* are distinguishable from other Cylindromyiini 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 *Evibrissa 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-Mońko (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: