



Two new species and two new synonyms of *Systropus* Wiedemann, 1820 from Palaeartic China (Diptera: Bombyliidae)

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Abstract

The following two new species of the genus *Systropus* Wiedemann, 1820 from China are described: *Systropus brochus* sp. nov., *Systropus coalitus* sp. nov.. Two new synonyms, *Systropus beijinganus* Du & Yang, **syn. nov.** of *Systropus hoppo* Matsumura, 1916 and *Systropus oestrus* Du & Yang, **syn. nov.** of *Systropus chinensis* Bezzi, 1905, are provided. A key to the species of the genus from Palaeartic China is presented.

Key words: Diptera, Bombyliidae, *Systropus*, new species, synonym, China

Introduction

The genus *Systropus* Wiedemann, 1820 belongs to the tribe Systropodini of subfamily Toxophorinae Schiner, 1868 (Diptera: Bombyliidae). It is easily identified by the following characters: thorax black with yellow spots; abdomen long and slender, inflated at apical portion, rod-like; first flagellomere flat and bare (Figs. 32–33) (Nagatomi *et al.* 1991). *Systropus* includes 168 known species, of which 38 species are from the Palaeartic Region and 57 species from the Oriental Region (Evenhuis & Greathead 2003; Du *et al.* 2009). Herein two new species are described and two species are redescribed. A key to the species of the genus from Palaeartic China is presented.

Material and methods

The specimens were studied and illustrated with a ZEISS Stemi 2000-c. Genitalic preparations were made by macerating the apical portion of the abdomen in heated 90% lactic acid for 2–3 hours. After examination the terminalia transferred to fresh glycerine and stored in a microvial pinned below the specimen. All specimens examined were deposited in the Entomological Museum of China Agricultural University (CAU), Beijing.

Morphological terminology follows Yeates (1994). The following abbreviations are used: ad—anterodorsal, av—anteroventral, pv—posteroventral, bt—black tubercle on cercus, cerc—cercus, db—dorsal band, goncx—gonocoxite, gonst—gonostylus, lel—lateral epiphallic lobe, mel—median epiphallic lobe, s—surstylus, st 10—sternite 10.

Taxonomy

Key to species of genus *Systropus* from Palaeartic China

- | | | |
|----|---|----|
| 1. | Yellow midlateral spot on mesoscutum present..... | 2 |
| - | Yellow midlateral spot on mesoscutum absent..... | 18 |