

Revision of the genus *Sialis* from Oriental China (Megaloptera: Sialidae)

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Abstract

The species of the genus *Sialis* from Oriental China are revised. The following three species are described as new to science: *Sialis elegans* sp. nov., *Sialis kunmingensis* sp. nov., and *Sialis versicoloris* sp. nov. A key to the species of *Sialis* from Oriental China is presented.

Key words: Sialidae, *Sialis*, new species, Oriental realm, China

Introduction

The megalopteran genus *Sialis* Latreille, 1802 is the largest genus in the family Sialidae, with more than 50 described species. It is predominantly distributed in the Holarctic realm. The adult is characterized by the somewhat shortened wings with the costal region distinctly dilated before the middle, and the branched R_{2+3} and R_{4+5} . The genitalia of both sexes are highly diversified.

The major revisionary works dealing with the taxonomy of *Sialis* are as follows: Weele (1910), Lestage (1927), Klingstedt (1932a, 1932b), Ross (1937), Vshivkova (1979, 1985), Whiting (1994), and Hayashi & Suda (1995, 1997). However, the Oriental species of Sialidae are poorly known until now, with only the following four species: *Indosialis minor* (Banks), *Nipponosialis kumejimai* (Okamoto), *Sialis jianfengensis* Yang, Yang & Hu, and *Sialis sinensis* Banks. In the present paper, three additional *Sialis* species are described from Oriental China.

Most specimens for the present study are deposited in the Entomological Museum of China Agricultural University (CAU), Beijing, and Institute of Zoology, Chinese Academy of Science (IZCAS), Beijing, while the types of *S. versicoloris* sp. nov. are