



## Four new species of *Saigusaia* Vockeroth, 1980 (Diptera: Mycetophilidae) from China

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### Abstract

Four new species of *Saigusaia* Vockeroth 1980 — *S. spinibarbis* sp. nov., *S. praegnans* sp. nov., *S. monacanthus* sp. nov., *S. aberrans* sp. nov. — are described from southeast China's of Zhejiang Province. Another species, *S. taiwan* is newly recorded from southwest China's Sichuan Province. A key to Chinese species of *Saigusaia* is provided.

**Key words:** Gnoristinae, *Saigusaia*, taxonomy, China, keys

### Introduction

*Saigusaia* was established by Vockeroth (1980) from *Boleina* of Gnoristinae, based on two species, *Saigusaia cincta* Johannsen 1912 (type-species) from North America and *Saigusaia taiwan* Saigusa 1968 from Taiwan. Maitle (1983) transferred *flaviventris* Strobl, a widespread species in Europe, from *Boletina* to *Saigusaia*. According to Vockeroth (1980), *S. taiwan* occurs in Nepal. The genus is characterized by differences in genital structure and in some external characters, e.g. Sc<sub>2</sub> present, bare, and ending well before the base of Rs; three ocelli arranged horizontally, median ocellus smaller than laterals; metepisternum with numerous short hairs; and gonostylus simple.

Thanks to Dr Wu Hong from the Institute of Forest Protection (Zhejiang Forestry College, China). He collected rich material of Mycetophilidae from different localities in Zhejiang Province. Among this material were numerous specimens of Gnoristinae, including these new species of *Saigusaia*.

### Material and methods

Specimens were collected by sweeping and Malaise traps and were preserved in 75% alcohol. Holotypes and paratypes of new species described herein are deposited in the entomological collection of Zhejiang Forestry College, Lin'an, Zhejiang Province, China. Terminology follows that McAlpine (1981) and Sli *et al.* (2000).

### Key to the species of *Saigusaia* Vockeroth 1980 known from China

1. Tergite IX broadened apically (Figs. 3, 5, 7,9); hypopygium not elongate, gonostylus simple (Figs. 7–8) or with posterior protuberance bearing at most 1 black spine .....2