



## The *Stegana coleoprata* species group (Diptera: Drosophilidae) from mainland China

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### Abstract

Nine species of the *Stegana coleoprata* species group are found from mainland China, including six newly described: *S. (Stegana) melanostoma* sp. nov., *S. (S.) pililobosa* sp. nov. and *S. (S.) psilolobosa* sp. nov. from Hubei Province; *S. (S.) arcygramma* sp. nov., *S. (S.) melanostigma* sp. nov. and *S. (S.) monodonata* sp. nov. from Yunnan Province. A key to all species of the group from the mainland China is provided.

**Key words:** China, *coleoprata* group, new species, *Stegana*, taxonomy

### Introduction

The *Stegana coleoprata* species group was established by Laštovka & Mácá (1982). Up to the present, a total of 16 species of the subgenus *Steganina* have been assigned to the *coleoprata* group (Bächli 2008; Brake & Bächli 2008), most of them from the Palearctic Region. In mainland China, three species were reported, *S. longifibula* Takada, 1968, *S. nigrithorax* Strobl, 1898 and *S. xuei* Hu & Toda, 1994; *S. nigrithorax* was reported from Hubei Province, central China by single female (Hu & Toda 1994), the other two species were from northeast China. The aforesaid diagnosis of the *coleoprata* group given by Laštovka & Mácá (1982) was complex; some characters are considered obsolete in the other groups (Sidorenko 1998, 2002; Cao & Chen 2008). We suggest that the new diagnosis is composed of one character: surstylus strongly curved submedially, with 1 small preniseta apically.

In this paper, six species are reported from Hubei and Yunnan Provinces, China; four of them distinctly belong to the *coleoprata* group; the other two species, although showing diagnostic characters of the *coleoprata* group (surstylus strongly curved submedially and with 1 small preniseta apically), are aberrant in the following characters: 1) Frons yellow, black below ocellar triangle, lacking minute setulae. 2) Face yellow, black on lower margin and facial carina absent. 3) Palpus black. 4) Katepisternum white-yellow on lower part, brown on upper part. 5) Wing white-yellow at tip. 6) Legs almost dark brown on femora and tibiae. 7) Abdominal tergites brown, with yellow patches on lateral margins of 2nd to 4th tergites. 8) Paramere (paraphysis) undistinguishable. 9) Aedeagus without tentacle-like setae distally. The remaining *coleoprata* group species have the following characters: frons brown and with sporadic, minute setulae on lower part; face black, with 1 yellow band (horizontal; elided below) medially and facial carina slight on upper part; palpus yellow, sometimes black distally; katepisternum white-yellow, concolorous; wing not paler at tip; legs mostly white to yellowish; abdominal tergites dark brown to black; paramere mostly present; aedeagus with tentacle-like setae distally. Thus, the fore mentioned two new species from the tropical region maybe compose a subgroup or new group; we provisionally include them in the *coleoprata* group to avoid further confusion.