

A review of the *F. serena*-subgroup of *Fannia* Robineau-Desvoidy (Diptera: Fanniidae), with the description of two new species from China

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Abstract

The *Fannia serena*-subgroup belongs to the *Fannia serena*-group Chillcott. This paper outlines early studies on the *F. serena*-subgroup and *F. serena*-group. The *F. serena*-group is redefined and a key is given to its four subgroups: *serena*-subgroup Chillcott, *rondanii*-subgroup Chillcott, *sociella*-subgroup Chillcott, and *mollissima*-subgroup Pont. Two new species, *Fannia diploura* Wang, Xue & Zhang sp. nov. and *Fannia setifemorata* Wang, Xue & Zhang sp. nov., are described from China. The eleven known Chinese species of the *F. serena*-subgroup are reviewed and keyed.

Key words: Diptera, Fanniidae, *Fannia*, *F. serena*-group, *F. serena*-subgroup, new species, China

Introduction

Fannia Robineau-Desvoidy is the largest genus in the family Fanniidae, occurring throughout the world and comprising well over 285 species (Carvalho *et al.* 1993, 2003). There are currently 92 species of *Fannia* known from China (Xue and Chao 1996; Wang and Xue 2002).

Chillcott (1961a) revised the Nearctic species of *Fannia* and published figures of their male genitalia. Based on morphological features of the male genitalia, he assigned the 148 Holarctic species to 11 species groups and 15 species subgroups, including the *F. serena*-group and *F. serena*-subgroup. He also defined the *F. serena*-group on the following characters: lower calypter linear and hind coxa posteroventrally without setae. Twenty species were assigned to the *F. serena*-group, and these were divided among three subgroups, the *serena*-subgroup, *rondanii*-subgroup, and *sociella*-subgroup. Eleven species were assigned to the largest subgroup, the *F. serena*-subgroup. This classification