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## A review of the genus *Abdosetae* (Araneae: Phrurolithidae) from China

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### Abstract

Four species of the genus *Abdosetae* Fu, Zhang & MacDermott, 2010 from China are reviewed, and three of them are new to science: *A. digitata* **sp. nov.**, *A. falcata* **sp. nov.** and *A. hamata* **sp. nov.** We re-examined the type material of *A. hainan* Fu, Zhang & MacDermott, 2010, re-delimited the generic characteristics and re-described the type species. A key to all *Abdosetae* species and a distribution map of the Chinese species are provided.

**Key words:** spider, *Abdosetae*, new species, identification key, Southeast Asia

### Introduction

Phrurolithinae was recently elevated to family rank and is now Phrurolithidae (Ramírez 2014). It is currently represented by 188 species belonging to 14 genera worldwide. Of these, four genera and 44 species are recorded from China (World Spider Catalog 2015). The phrurolithids have claw tufts comprising heavily folded setae, a claw tuft clasper and reduced leg spination, especially on the posterior legs and dorsally on all femora. The male palpal femur is modified ventrally, with a ventral apophysis and usually a ventral apical hook. They also have a long series of ventral macrosetae on the anterior tibiae and lack cuspules (Ramírez 2014).

The genus *Abdosetae* was established by Fu *et al.* (2010) with the type species *Abdosetae hainan* Fu, Zhang & MacDermott, 2010 (from Hainan Island, China), and in the same paper they transferred *Otacilia ornata* Deeleman-Reinhold, 2001 (from Sabah, Malaysia) to this genus. *Abdosetae* was originally placed in the family Corinnidae under the subfamily Phrurolithinae as defined by Deeleman-Reinhold (2001) until Ramírez (2014) restricted Corinnidae and elevated Phrurolithinae to family rank.

The genus *Abdosetae* had only two species until now. While examining phrurolithid specimens collected from Hainan Island, China, we found three *Abdosetae* species new to science. After examining the type specimens (deposited in MHBUS) and the new material, we re-delimited the generic characteristics and redescribed *Abdosetae* and its type species, *A. hainan*. Three new species, *A. digitata* **sp. nov.**, *A. falcata* **sp. nov.** and *A. hamata* **sp. nov.**, are described and illustrated here. Additionally, a key to all *Abdosetae* species and a distribution map of Chinese species are provided.

### Material and methods

All measurements are given in millimetres. Leg measurements are shown as: total length (femur, patella, tibia, metatarsus, tarsus). Total length is the sum of the carapace and abdomen lengths, including the pedicel. Epigynes were removed and cleared in a warm solution of 10% potassium hydroxide, transferred to alcohol and temporarily mounted for drawing. All specimens are preserved in 75% alcohol and were examined, drawn and measured with a Leica M205A stereomicroscope equipped with an Abbe drawing device. Photographs were captured using a Leica