



## Four new species of Pauropoda (Brachypauropodidae, Eurypauropodidae, Pauropodidae) from the Sanqingshan Mountains, Jiangxi Province, China

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### Abstract

Among 46 pauropods collected from the Sanqingshan Mountains in southeastern China, four new species were identified: *Borneopauropus acutifolius* sp. n. in Brachypauropodidae, *Samarangopus dilatate* sp. n. in Eurypauropodidae, both families new to China, and two species in Pauropodidae, *Decapauropus cutellatus* sp. n. and *D. biaristatus* sp. n.

**Key words:** new species, Brachypauropodidae, Eurypauropodidae, Pauropodidae, taxonomy

### Introduction

Eurypauropodidae and Branchypauropodidae are cosmopolitan, and 62 species in four genera and 28 species in six genera have so far been described, respectively (Scheller, 2011). Records and descriptions of these animals in China are rare because large regions of the country remain underexplored. In the present study, field surveys were conducted in the Sanqingshan Mountains in Jiangxi province, China, in 2012. Forty-six specimens were collected and among them we identified a new species of *Borneopauropus* and a new species of *Samarangopus*; both genera and the family Brachypauropodidae are new to China. In 1988, Zhang and Chen reported the genus *Eurypauropus* (Eurypauropodidae) based on material from Zhejiang in southeastern China, and provided a morphological diagnosis of the genus. However, the description and illustrations lacked any detailed examination of the setae on the tergites and appendages of the anal plate, and are of limited value for species identification (Zhang and Chen, 1988). Further, two new species of *Decapauropus* in Pauropodidae were also identified. The genus *Samarangopus* (Eurypauropodidae) is distributed broadly across the Palearctic, Oriental and Australian regions, and comprises 35 species (Scheller, 2011). *Borneopauropus* (Branchypauropodidae) is an oriental genus and contains six species recorded from Southeast Asia (Scheller, 2011; 2012).

### Material

Pauropods were collected using Tullgren funnels. Specimens were sorted under a stereo dissection microscope (Nikon SMZ645) and preserved in 70% alcohol. Each specimen was identified under a compound microscope equipped with differential interference contrast (Nikon ECLIPSE 80i). Specimens examined, including type material, were deposited in the collection maintained by the Jiangsu Key Laboratory for Biodiversity and Biotechnology, College of Life Sciences, Nanjing Normal University, China.

### Family Brachypauropodidae Silvestri, 1902

#### Genus *Borneopauropus* Scheller, 2008

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