

***Biserovus xiae* sp. n. and *Doryphoribius qinlingense* sp. n., new species of eutardigrades from China**

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Abstract

Two new species of tardigrades are described from China (*Biserovus xiae* sp. n. and *Doryphoribius qinlingense* sp. n.). *B. xiae* sp. n. is the second species of this genus. It differs from *B. bindae* in shorter and wider bucco-pharyngeal tube with buccal tube width pt 15.0, in relatively shorter pharyngeal tube, and in narrower and shorter common tract and much longer principal and secondary branches of the double claws. *D. qinlingense* differs from other species of the genus in having a smooth cuticle, or in the number of placoids, or in having claws with a well-developed common tract or with a relatively longer secondary branch.

Key words: Tardigrada, taxonomy, *Biserovus xiae* sp. n., *Doryphoribius qinlingense* sp. n., China

Introduction

In the spring and the early summer of 2004, we investigated the tardigrade fauna of Qinling mountains which stretch from west to east in the central part of the People's Republic of China. Three trips were made during the investigation, and a total of 450 samples of mosses, lichens, leaf litters, and soil were collected. Eleven species have been identified from the tardigrade fauna of Qinling mountains so far. Among them, we found a new species of *Doryphoribius*.

Meanwhile, in Zhejiang Province, far away from Qinling mountains, Madam Xuejun Xia, Yu's mother (Di Yu, one of the coauthors of this paper), kindly sent us some samples of mosses collected from Zhaobaoshan mountain, Zhenhai County. In these samples of mosses we found a new species of *Biserovus*.