



A new species of *Homidia* from China, and description of the dorsal chaetotaxy of all Chinese *Homidia* species (Collembola: Entomobryidae)

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Abstract

In the present paper a new species, *Homidia sichuanensis* Jia, Zhang & Jordana **sp. nov.** from West China, is described and figured. The new species is separated from the other *Homidia* by the presence of macrochaeta p4 on Th. III and the distribution of macrochaetae on A6–A10 areas of Abd. IV. Using the description of this new species, the generalized chaetotaxy for *Homidia* is described and figured, following Szeptycki (1979) and Jordana and Baquero (2005). Dorsal macrochaetotaxy of all known *Homidia* species from China are provided. For first time we give the chaetotaxy for *H. phjongiangica* Szeptycki, 1973 from types, *H. sauteri* (Börner, 1909) from Japanese material, *H. sinensis* Denis, 1929 from types, *H. socia* Denis, 1929 from Japanese material and *H. transitoria* Denis, 1929 from types. A key to the Chinese species of *Homidia* with known chaetotaxy are also given.

Key words: *Homidia sichuanensis* Jia, Zhang & Jordana **sp. nov.**, key

Introduction

The genus *Homidia* was established by Börner (1906) as a subgenus of the genus *Entomobrya* Rondani (in: Ellis & Bellinger 1973). Denis (1929) raised it to the generic level. This genus is the only among Entomobryini with dental spines on its inner edge, in adults; its chaetotaxy shows a peculiar distribution of macrochaetae on Abd. IV, with a transversal anterior row (Area A7) and posterior macrochaetae restricted usually to the A9 and A10 posterior areas (some exceptions are known). This interpretation of the chaetotaxy follows Jordana and Baquero (2005). *Homidia* species usually live in leaf litter. Most species of the genus were found only in Asia and China has the largest number of species. Twenty-two species have been recorded from China and we are adding a new species. The species already known from China are (in alphabetic order):

1. *H. anhuiensis* Li & Chen, 1997.
2. *H. apigmenta* Shi, Pan & Zhang, 2010.
3. *H. emeiensis* Jia, Chen & Christiansen, 2004.
4. *H. fascia*, Wang & Chen, 2001.
5. *H. formosana* (Uchida, 1943) *sensu*: Shi, Pan & Zhang 2010.
6. *H. huashanensis* Jia, Chen & Christiansen, 2005
7. *H. latifolia* Chen & Li, 1999
8. *H. leei* Chen & Li, 1997
9. *H. linhaiensis* Shi, Pan & Qi, 2009
10. *H. mediofascia* Shi, Pan & Bai, 2009
11. *H. nigrocephala* Uchida, 1943
12. *H. pentachaeta* Li & Christiansen, 1997
13. *H. phjongjangica* Szeptycki, 1973.