Description of *Pella sichuanensis* sp. n. (Coleoptera: Staphylinidae: Aleocharinae) from Micang Mountain, Sichuan, China

DAN-LIN ZHENG¹ & MEI-JUN ZHAO¹,²

¹Department of Biology, College of Life and Environmental Sciences, Shanghai Normal University, 100 Guilin Road, Xuhui District, Shanghai 200234, P. R. China. E-mail: 479154307@qq.com
²Corresponding author. E-mail: mjzhao@shnu.edu.cn

Abstract

*Pella sichuanensis* Zheng & Zhao, sp. n. of the *P. cognata* group is described, illustrated, and distinguished from similar congeners.

Key words: Coleoptera, Staphylinidae, *Pella*, China

Introduction

The lomechusine genus *Pella* Stephens is represented by 62 species world-wide (Hlaváč et al. 2011, Song and Li 2013), of which eight occur in China: *P. beijingorum* Pace (Beijing), *P. cooterorum* Maruyama (Beijing, Yunnan), *P. hlavaci* Maruyama (Beijing), *P. jureceki* Dvořák (Beijing), *P. kishimotoi* Maruyama (Hunan), *P. puetzi* Assing (Yunnan), *P. zhoui* Maruyama (Beijing) and *P. maoershanensis* Song & Li (Guangxi).

The main goal of this contribution is to describe a new species, *Pella sichuanensis* Zheng & Zhao, sp. n., discovered in Sichuan, China, and provide illustrations of its major diagnostic features.

Material and methods

Specimens were killed with ethyl acetate and preserved in 75% ethanol before dissection; and photos of habitus were taken with a Canon EOS 70D with an MP-E 65mm Macro Photo Lens.

Head length was measured from the clypeal anterior margin to the occipital constriction; elytral length at the suture from the apex of the scutellum to the elytral posterior margin.

All the types are deposited in the Insect Collection of Shanghai Normal University, Shanghai, China (SNUC).

Taxonomy

*Pella sichuanensis* Zheng & Zhao, sp. n.

(Fig. 1)


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8th sternite (Fig. 1E) with posterior margin rounded. Aedeagus (Figs. 1H–J) oval in ventral view; apical lobe curved ventrad, obtuse at apex in lateral view, rounded at apex in ventral view; longitudinal band relatively long; distal crest of aedeagal median lobe gently projected; basal ridge weakly convex, invisible in lateral view; copulatory piece of inner sac as in Fig. 1J.

Female: Eighth tergite (Fig. 1D) with posterior margin truncate; truncate apex weakly crenate; 8th sternite (Fig. 1F) with 14 or 15 macrosetae. Spermatheca (Fig. 1G) curved three times; basal part almost as long as apical part, acutely curved around middle, slightly dilated apicad; apical part acutely curved around apical 2/5, slightly dilated apicad, its inner wall densely wrinkled from apex to around apical 3/5.

Comparative notes. Based on the shapes of the pronotum, the bicoloured elytra and the morphology of aedeagal median lobe the new species refers to the *P. cognata* group. The new species can be separated from all other species of the *P. cognata* by its lighter color, the relatively long aedeagal longitudinal band.

Three species of the *P. cognata* group have been known from China: *P. kishimotoi* Maruyama, *P. puetzi* Assing and *P. maoershanensis* Song & Li. From these species, *P. sichuanensis* is additionally distinguished as follows: from *P. kishimotoi* (China, Hunan Prov.) by the more transverse antennomeres VI–VIII; from *P. puetzi* and *P. maoershanensis* by head lacking sexual dimorphism and the different shape of the ventral process of the aedeagus, especially in ventral view. In addition, the more transverse antennomeres V–X separates the new species from *P. puetzi*.

Etymology. The new species is named after its type locality.

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References


