



<http://dx.doi.org/10.11646/zootaxa.3780.1.1>

<http://zoobank.org/urn:lsid:zoobank.org:pub:A391A8BD-B89F-4C9C-8DF0-5206F3435B2D>

Seventeen new species and additional records of *Lathrobium* (Coleoptera, Staphylinidae) from mainland China

ZHONG PENG¹, LI-ZHEN LI¹ & MEI-JUN ZHAO^{1,2}

¹Department of Biology, Shanghai Normal University, Shanghai, 100 Guilin Road, Shanghai, 200234 P. R. China.

E-mail: pz0617@163.com

²Corresponding author

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Abstract

Material of the paederine genus *Lathrobium* Gravenhorst, 1802 from the Chinese provinces Heilongjiang, Ningxia, Qinghai, Henan, Anhui, Zhejiang, Jiangxi, Hunan, Chongqing, Guizhou, Yunnan and Guangdong was examined. Twenty-one species were identified, seventeen of which are described as new: *L. liuae* (Heilongjiang: Hongwei); *L. ningxiaense* sp. n. (Ningxia: Heshangpu); *L. baiyunense* sp. n. (Henan: Baiyun Shan); *L. ayui* sp. n. (Anhui: Yaoluoping); *L. yaoluopingense* sp. n. (Anhui: Yaoluoping); *L. chenae* sp. n. (Zhejiang: Qingliangfeng); *L. fengae* sp. n. (Zhejiang: Qingliangfeng); *L. gutianense* sp. n. (Zhejiang: Gutian Shan); *L. nannani* sp. n. (Zhejiang: Gutian Shan); *L. sanqingense* sp. n. (Jiangxi: Sanqing Shan); *L. badagongense* sp. n. (Hunan: Badagong Shan); *L. xui* sp. n. (Chongqing: Huanggangou); *L. fanjingense* sp. n. (Guizhou: Fanjing Shan); *L. lui* sp. n. (Guizhou: Kuankuoshui); *L. zhaigei* sp. n. (Guizhou: Kuankuoshui); *L. zizhiense* sp. n. (Yunnan: Zizhi) and *L. guangdongense* sp. n. (Guangdong: Nanling). The female sexual characters of *L. lingae* Peng, Li & Zhao and *L. longwangshanense* Peng, Li & Zhao are described and il-

illustrated for the first time. The junior primary homonym *Lathrobium pilosum* Peng & Li, 2012 is replaced with *Lathrobium zhui* nom. n. Including the new taxa described here, 189 *Lathrobium* species are currently known from the mainland China.

Key words: Coleoptera, Staphylinidae, *Lathrobium*, new species, additional records, China

Introduction

The speciose Holarctic genus *Lathrobium* GRAVENHORST 1802 was previously represented in mainland China by 172 described species, the vast majority of them were locally endemic. Based on the morphology and chaetotaxy of the male and female sexual characters, sixteen species groups were proposed by Assing, in press; Assing *et al.* 2013; Assing 2013a–f; Peng *et al.* 2013a–b. The *Lathrobium* fauna of over 55 mountain ranges has not been examined and most of these ranges have suitable habitats for *Lathrobium*, suggesting that the true diversity of the genus in China is far greater than currently known.

In recent years, we conducted several collecting trips and obtained numerous *Lathrobium* specimens. Twenty-one species were recognized, including seventeen new species and the previously unknown female of *L. lingae* Peng, Li & Zhao, 2012 and *L. longwangshanense* Peng, Li & Zhao, 2012. Additionally, it was discovered that *Lathrobium pilosum* Peng & Li, 2012 represents a junior primary homonym.

Material and methods

The following abbreviations are used in the text, with all measurements in millimeters:

Body length (BL): length of body from the anterior margin of the mandibles (in resting position) to the abdominal apex.

Forebody length (FL): length of forebody from the anterior margin of the mandibles to the posterior margin of the elytra.

Head length (HL): length of head from the anterior margin of the frons to the posterior margin of the head.

Head width (HW): maximum width of head.

Antenna length (AnL): length of antenna from the basis of the antenna to the apex.

Pronotum length (PL): length of pronotum along midline.

Pronotum width (PW): maximum width of pronotum.

Elytral length (EL): at the suture from the apex of the scutellum to the posterior margin of the elytra (at the sutural angles).

Aedeagus length (AL): length of the aedeagus from the apex of the ventral process to the base of the aedeagal capsule.

The type material is deposited in the Insect Collection of Shanghai Normal University, Shanghai, China (SNUC).

Descriptions and additional records

Lathrobium liuae Peng and Li, new species

(Figs 1A, 2)

Type material (1 ♂, 3 ♀♀). HOLOTYPE: ♂, labeled 'CHINA: Heilongjiang Prov., Huma County, near Hongwei Town, 51°57'N 123°42'E, 15.vii.2009 alt. 580 m, Li & Liu leg.' (SNUC). Paratypes: 3 ♀♀, same label data as holotype (SNUC).

Description. Measurements (in mm) and ratios: BL 4.45–5.50, FL 2.00–2.22, HL 0.60–0.65, HW 0.61–0.65, AnL 1.18–1.24, PL 0.74–0.76, PW 0.61–0.63, EL 0.59–0.61, AL 0.91, HL/HW 0.98–1.00, HW/PW 1.00–1.03, HL/PL 0.81–0.86, PL/PW 1.20–1.21, EL/PL 0.79–0.80.

Habitus as in Fig. 1A. Body light brown, legs yellowish brown, antennae light brown.

extended to Alexandr B. Ryvkin for making material of the *L. sibiricum* group available to us for study. We thank Lee H. Herman (New York) for informing us that *Lathrobium pilosum* Peng & Li, 2012 represents a junior primary homonym. We are most grateful to Volker Assing (Hannover) for his comments on an earlier version of the manuscript. The study is supported by the National Natural Science Foundation of China (No. 31101659 and No. 31172134, 31201734), the Foundation of Shanghai Municipal Education Commission (No. 12YZ077 and No. 13YZ062) and Shanghai Normal University (SK201234, DZL125 and B-9013-11-003127).

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