

Two *Lathrobium* Gravenhorst Species (Coleoptera: Staphylinidae: Paederinae) New to Korea

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Introduction

Lathrobium Gravenhorst is the largest genus of Paederinae with 798 species worldwide (Newton, 2022). In the Palearctic region, nearly 500 species are described, 105 species in Japan, 46 species in Russian Far East, and two species in Korea (Assing, 2010, 2012, 2013; Smetana, 2004; Ryvkin, 2011; Ahn et al, 2017). Members of the genus *Lathrobium* are characterized by the combination of following features: head as wide as the pronotum; neck never less and more than half as wide as head; pronotum as wide as elytra; body parallel; punctuation of forebody mostly less dense; elytra without additional epipleural line and never arranged in series. Recently we identified two additional *Lathrobium* species (*L. sinense* Herman, 2003 and *L. ishiharai* Hayashi, 1994) and they are reported for the first time in Korea. They are deposited in the Chungnam National University Insect Collection (CNUIC). A key and illustrations of habitus and abdominal segment of these two species are provided to facilitate identification.

Results

Genus *Lathrobium* Gravenhorst, 1802

Lathrobium coreanum Watanabe, 2000

Lathrobium dignum Sharp, 1874

**Lathrobium ishiharai* Hayashi, 1994

**Lathrobium sinense* Herman, 2003

* New to Korea

Key to species of the genus *Lathrobium* in Korea

1. Body size longer than 6.0 mm 2
- Body size no longer than 6.0 mm *Lathrobium sinense*
2. Elytra as long as pronotum 3
- Elytra shorter than pronotum *Lathrobium coreanum*
3. Elytra with red region at posterior 2/3 *Lathrobium dignum*
- Elytra black *Lathrobium ishiharai*

Habitus and diagnostic characters of *L. sinense* and *L. ishiharai*

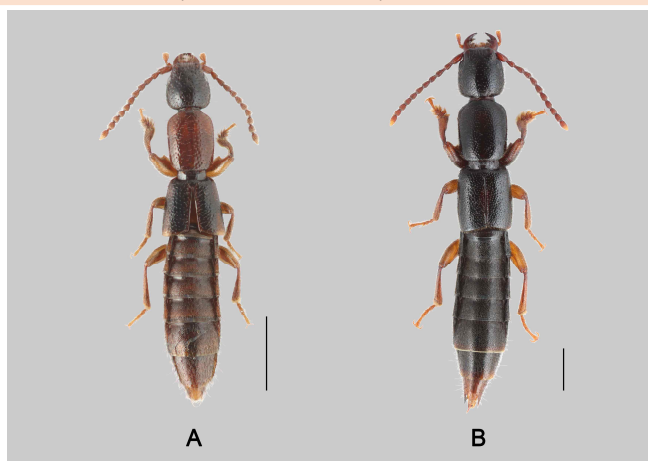


Fig. 1. Habitus. A: *Lathrobium sinense*, 4.77 mm; B: *Lathrobium ishiharai*, 8.83 mm. Scales = 1.0 mm

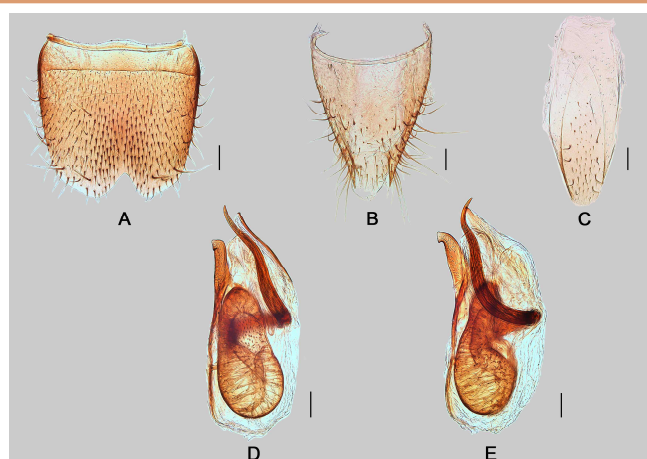


Fig. 2. *Lathrobium sinense*. A: Sternite VIII, ventral aspect; B: Tergite IX and X, dorsal aspect; C: Sternite IX, ventral aspect; D: Adeagus, dorsal aspect; E: Adeagus, lateral aspect. Scales = 0.1 mm

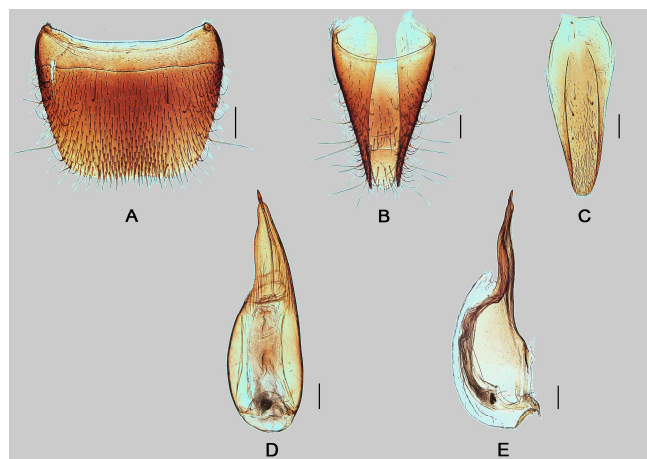


Fig. 3. *Lathrobium ishiharai*. A: Sternite VIII, ventral aspect; B: Tergite IX and X, dorsal aspect; C: Sternite IX, ventral aspect; D: Adeagus, dorsal aspect; E: Adeagus, lateral aspect. Scales = 0.2 mm

References

- Ahn KJ, Cho Y, Kim YH, Yoo IS, Newton AF. 2017. Checklist of the Staphylinidae (Coleoptera) in Korea. *Journal of Asia-Pacific Biodiversity* 10: 279–336.
- Assing V. 2013. On the *Lathrobium* fauna of Japan (Coleoptera: Staphylinidae: Paederinae). *Linzer biol. Beitr.* 45(1): 1615–1641
- Assing V. 2010. On the Lathrobiina of Taiwan (Coleoptera: Staphylinidae: Paederinae). *Beiträge zur Entomologie*, Kelttern 60 (2): 301–361.
- Assing V. 2012. A revision of the *Lathrobium* species of the Himalaya (Coleoptera: Staphylinidae: Paederinae). *Bonn Zoological Bulletin* 61 (2): 142–209.
- Hayashi Y. 1994. A new macropterous *Lathrobium* species from Japan (Coleoptera: Staphylinidae). *Shikoku Entomological Society* 20: 145–149
- Herman LH. 2003. Nomenclatural changes in the Paederinae (Coleoptera: Staphylinidae). *American Museum Novitates* 3416: 1–28
- Newton A. 2022. Staphyliniformia world catalog database. In O. Bánki et al., Catalogue of Life Checklist (Aug 2022). <https://doi.org/10.48580/dfqf-3gk>
- Ryvkin AB. 2011. On new and poorly known *Lathrobium* (s.str.) species from Siberia and the Russian Far East (Insecta: Coleoptera: Staphylinidae: Paederinae). *Baltic Journal of Coleopterology* 11 (2): 135–170.
- Smetana A. 2004. Subfamily Paederinae FLEMING, 1821. In: LÖBL I. & A. SMETANA (eds), Catalogue of Palaearctic Coleoptera. Volume 2. Hydrophiloidea isteroidea Staphylinoidae. *Apollo Books*, Stenstrup: 579–624.
- Watanabe Y. 2000. A new species of the group of *Lathrobium monticola* (Coleoptera, Staphylinidae) from South Korea. *Elytra*, Tokyo 28 (2): 323–326.

Acknowledgments

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