

One new species of the genus *Uenostroglyium* (Coleoptera: Tenebrionidae) from Guangxi, China

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Abstract: One new species, *Uenostroglyium merkli* sp. nov. (China, Guangxi), is described. Habitus, illustrations and a list of all *Uenostroglyium* species are provided.

Key words: *Uenostroglyium merkli*; Stenochiini; darkling beetles; taxonomy

广西优树甲属一新种记述（鞘翅目：拟步甲科）

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摘要：记述来自中国广西的优树甲属 1 新种：默氏优树甲 *Uenostroglyium merkli* sp. nov.。提供了整体图、特征图和优树甲属所有种的名录。

关键词：默氏优树甲；树甲族；拟步甲；分类

Introduction

Uenostroglyium Masumoto, 1999 is a small genus of the tribe Stenochiini, with six species distributed in China (Guizhou, Hunan, Zhejiang, Guangdong), Laos and Annam (Masumoto 1999, 2006; Yuan *et al.* 2018; Masumoto & Akita 2019; Lin *et al.* 2021). Recently, in the course of our studies on specimens collected from Dayaoshan Mt., Guangxi, China, one new species in the genus *Uenostroglyium* was discovered, *Uenostroglyium merkli* sp. nov. Consequently, there are five species of this genus in China after our description below. A list of all *Uenostroglyium* species is also provided.

Material and methods

Specimens were examined under a Nikon (SMZ 1270) dissecting microscope. Measurements and photographs were taken using a Leica (M205 A) dissecting microscope. The male genitalia was dissected and cleared in warm 10% NaOH solution. After examination, it was transferred to a microvial with fresh glycerine and placed below the pinned specimen.

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The following measurements are used in the text: body length: length of the body from the anterior edge of the clypeus to elytral apex under its natural position; pronotal length: length of the pronotum along the midline; pronotal width: maximum width of the pronotum; elytral width: length of the maximal elytral width; elytral length: length of the elytra from the base of the scutellum to the elytral apex along the suture. All measurements are given in millimeters. Terminology used in this study follows Masumoto (1999).

The type specimens are deposited in the Hebei University Museum, Baoding, Hebei (HBUM) and the Yan'an University Insect Collection, Yan'an, China (YUC).

Taxonomy

1. *Uenostrongylium merkli* sp. nov. (Figs 1–10)

Description. Male. Body length 6.63–7.30 mm. Oblong-oval, strongly convex, obviously constricted at pronotal and elytral bases, without hind wings; head, pronotum and elytra black, exterior margins of genae and legs brown, femora and tibiae darker in color, antennomeres I–VI and base of antennomere VII yellowish brown, apex of antennomere VII and apical four segments dark brown; head and pronotum very weakly shining, elytra with strongly brassy shine; body with microscopic and adpressed hairs.

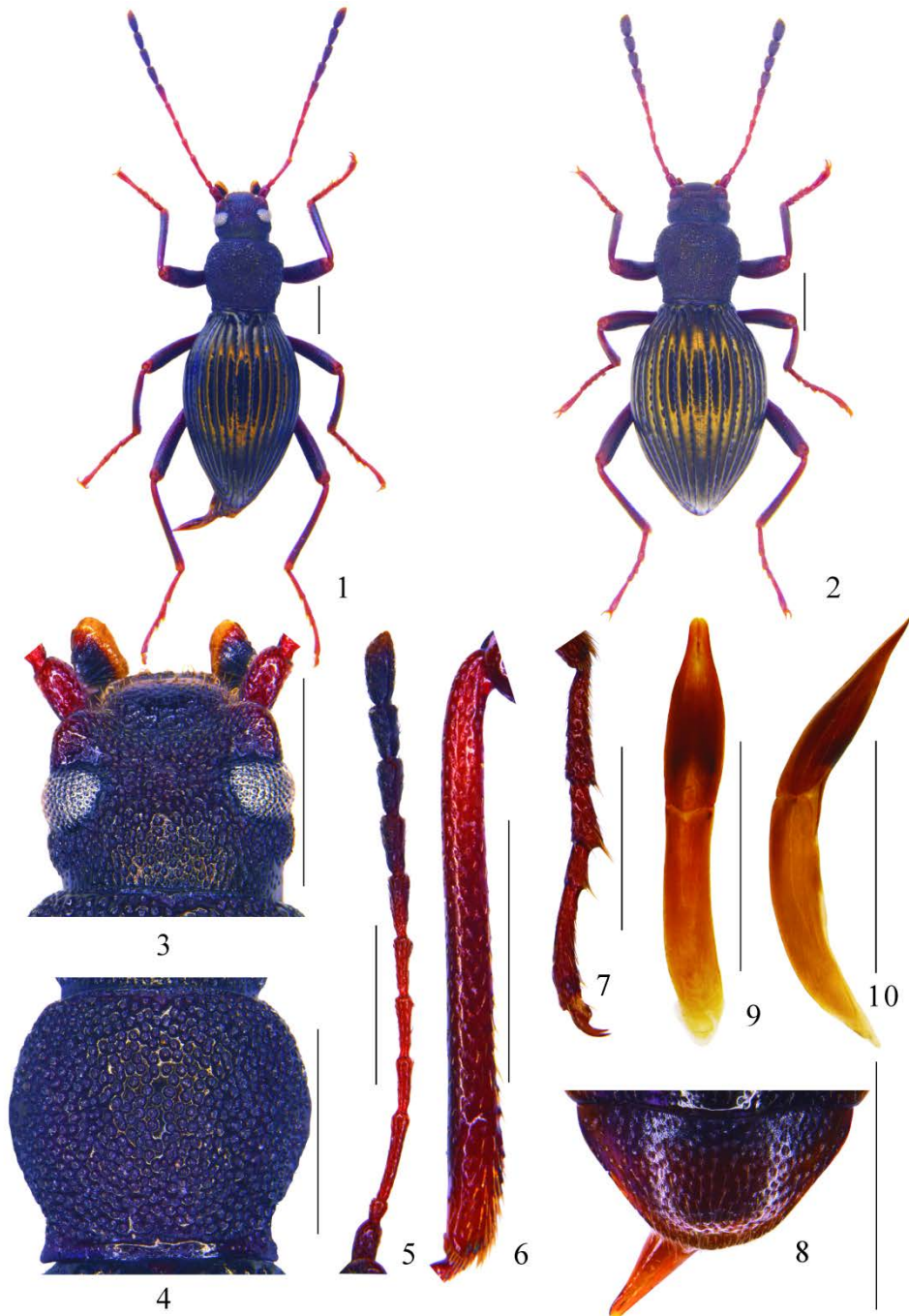
Head densely punctate; clypeus with moderately large punctations which are occasionally fused with each other, frontoclypeal suture arcuate, finely grooved, both sides extending outer margins, weakly impressed in median before suture; genae coarsely punctate, exterior margins obtusely rounded; frons very wide, moderately steeply inclined anteriorly, densely scattered with very coarse and fused punctations, distance between eyes 2.07 times as wide as transverse diameter of an eye in dorsal view, posterior part of vertex sparsely and finely punctate, posterior parts with weakly oblique impressions; eyes small, nearly heart-shaped in lateral view, weakly convex laterad; antennae subfiliform, reaching basal 1/3 of elytra, length ratios of 2nd to 11th antennomeres as: 0.16, 0.57, 0.35, 0.40, 0.39, 0.40, 0.39, 0.37, 0.36, 0.48.

Pronotum 1.10 times as wide as long, widest at apical 2/5, gradually narrowing anteriorly and posteriorly, strongly constricted near posterior angles; dorsum very convex; anterior margin nearly straight, finely bordered; posterior margin with moderately bold border; lateral margins with border at apical 1/2; front angles rounded, hind angles obtuse; disc with very dense, coarse and irregular punctations, weakly and shallowly impressed on apical 1/2 on each side, weakly depressed in apical 1/4 along midline. Scutellum small, equilateral triangle, weakly convex at medio-basal part, with very sparse punctations.

Elytra suboval, 1.68 times as long as wide, 3.07 times as long and 1.66 times as wide as pronotum, widest at basal 2/5; dorsum strongly convex, highest at basal half; disc with 9 striae, scutellar striae very short, with one punctation, close to apex of scutellum, striae punctations partially fused with each other and forming a long line, punctations small and shallow in interior part, becoming larger and deeper laterad, oval and concave in intervals, gradually smaller and forming grooves apically; intervals wide, moderately convex, sparsely and minutely punctate; apices roundly produced posteriorly.

Ventral surface sparsely and densely punctate, prosternum densely and coarsely punctate, longitudinally impressed between procoxae, prosternal process rounded; mesosternum coarsely punctate, V-shaped and convex between mesocoxae; metasternum sparsely punctate.

Abdominal surface with moderately sparse and regular punctations, ventrite V simple, apical margin rounded, depressed in middle and near apex.



Figures 1–10. *Uenostroglyium merkli* sp. nov. 1. Habitus, male; 2. Habitus, female; 3. Head; 4. Pronotum; 5. Antennae; 6. Metatibia; 7. Metatarsus; 8. Ventrite V; 9. Male genitalia, dorsal view; 10. Male genitalia, lateral view. Scale bars = 1.0 mm.

Legs elongate, densely punctate, tibiae almost straight, metatarsomeres I–IV length ratio as: 0.68, 0.34, 0.24, 0.69. Male genitalia 1.83 mm long, 0.27 mm wide, obviously arcuate in lateral view, basale constricted at basal 2/5, apicale 0.94 mm long, gradually narrowed apicad, constricted in apical 1/5, apex flattened, weakly dehiscent.

Female. Body more stout, length 5.85–6.70 mm; antennae shorter and stouter.

Holotype. ♂, **China**, Guangxi, Laibin City, Jinxiu County, Dayaoshan Mt., ca. 650 m; 30-IV-2022, Chunfu FENG leg. (HBUM); **Paratypes.** 12♂14♀, same data as the holotype; 1♂, same locality and collector as the holotype, 19–20-VI-2022, (YUC).

Etymology. This new species is named in honour of Dr. Ottó Merkl.

Diagnosis. This new species is similar to *U. hunanense* Masumoto 2006 from Hunan, but can be distinguished from the latter by the head and pronotum without microscopic brush-like setae, pronotum weakly and shallowly impressed at apical 1/2 on each side, strongly constricted near posterior angles, antennomere III 1.63 times as long as antennomere IV, scutellar striae very short, with one punctuation.

2. *Uenostongylium becvari* Masumoto, 2006

Uenostongylium becvari Masumoto, 2006: 70. Type locality: China, Guizhou.

Distribution. China (Guizhou).

3. *Uenostongylium gaoi* Lin & Yuan, 2021

Uenostongylium gaoi Lin & Yuan, 2021: 139. Type locality: China, Guangdong.

Distribution. China (Guangdong).

4. *Uenostongylium hunanense* Masumoto, 2006

Uenostongylium hunanense Masumoto, 2006: 72. Type locality: China, Hunan.

Distribution. China (Hunan).

5. *Uenostongylium laosense* (Pic, 1928)

Cryptobates? laosensis Pic, 1928: 26. Type locality: Laos.

Crossoscelis laosensis: Gebien, 1944: 887.

Uenostongylium laoense: Masumoto, 1999:123.

Distribution. Laos; Annam (Vietnam).

6. *Uenostongylium maoi* Masumoto & Akita, 2019

Uenostongylium maoi Masumoto & Akita, 2019: 203. Type locality: Laos, Xieng Khouang.

Distribution. Laos.

7. *Uenostongylium scaber* Yuan & Ren, 2018

Uenostongylium scaber Yuan & Ren, 2018: 24. Type locality: China, Zhejiang.

Distribution. China (Zhejiang).

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References

- Gebien H. 1944. Katalog der Tenebrioniden, Teil III (in part). *Mitteilungen der Münchener Entomologischen Gesellschaft*, 34: 859–899.
- Lin W, Xu MF & Yuan CX. 2021. A new species of the genus *Uenostongylium* Masumoto (Coleoptera: Tenebrionidae) from Guangdong, China. *Entomotaxonomia*, 43(2): 138–141.
- Masumoto K. 1999. Study of Asian Strongyliini (Coleoptera, Tenebrionidae) VII. Brachypterous strongyliines. *Elytra*, 27(1): 113–125.
- Masumoto K. 2006. Two new apterous stenochiines species from China (Coleoptera: Tenebrioninae: Stenochiini). *Entomological Review of Japan*, 61(1): 69–74.
- Masumoto K & Akita K. 2019. Description of a new species from Laos belonging to *Uenostongylium* Masumoto, and proposal of a new replacement name of a *Strongylium* Kirby from Tonkin (Coleoptera: Tenebrionidae: Stenochiinae: Stenochiini). *Japanese Journal of Systematic Entomology*, 25(2): 203–205.
- Pic M. 1928. Notes et descriptions. *Mélanges Exotico-Entomologiques*, 51: 1–36.
- Yuan CX, Li P & Ren GD. 2018. One new species of the genus *Uenostongylium* (Coleoptera: Tenebrionidae) from China. *Entomotaxonomia*, 40(1): 23–26.