

# A new species of the genus *Uenostrogylum* Masumoto, 1999 (Coleoptera: Tenebrionidae) from Guangdong, China

Wei LIN<sup>1</sup>, Miaofeng XU<sup>1</sup>, Caixia YUAN<sup>2, 3①</sup>

1. Technical Center of Gongbei Customs District, Zhuhai, Guangdong 519000, China

2. College of Life Sciences, Yan'an University, Yan'an, Shaanxi 716000, China

3. Shaanxi Engineering and Technological Research Center for Conservation and Utilization of Regional Biological Resources, Yan'an, Shaanxi 716000, China

**Abstract:** A new species, *Uenostrogylum gaoi* Lin & Yuan **sp. nov.** from Guangdong, China, is described. It resembles *Uenostrogylum scaber* Yuan & Ren, 2018 from Zhejiang due to the granulated upper edge of elytral punctures. Habitus and illustrations are provided.

**Key words:** darkling beetle; Stenochinae; Stenochiini; taxonomy

## 中国广东优树甲属一新种（鞘翅目：拟步甲科）

林伟<sup>1</sup>，徐淼锋<sup>1</sup>，苑彩霞<sup>2, 3①</sup>

1. 拱北海关技术中心，广东 珠海 519000; 2. 延安大学生命科学学院，陕西 延安 716000; 3. 陕西省区域生物资源保育与利用工程技术研究中心，陕西 延安 716000

**摘要：**记述来自中国广东的优树甲属 1 新种：高氏优树甲 *Uenostrogylum gaoi* Lin & Yuan **sp. nov.**，该种因鞘翅刻点上缘具小颗粒而与浙江的粗皱优树甲 *Uenostrogylum scaber* Yuan & Ren, 2018 相似。文中提供了新种的整体图和特征图。

**关键词：**拟步甲；树甲亚科；树甲族；分类

## Introduction

The darkling beetle genus *Uenostrogylum* is a small genus with four known species worldwide, of which three species are reported from China (Masumoto 1999, 2006; Yuan *et al.* 2018). A key to species and an updated diagnosis of this genus were provided in Yuan *et al.* (2018). Recently we recognized an additional species, *Uenostrogylum gaoi* Lin & Yuan **sp. nov.**, in the collection from Nanling National Nature Reserve, Guangdong, collected by Malaise trap, the habitus and illustrations of this new species are presented.

## Material and methods

Specimens were examined under a Nikon (SMZ 1270) dissecting microscope.

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① Corresponding author, E-mail: treebeetle@163.com

Measurements were taken and photographs were captured using a Leica (M205 A) dissecting microscope.

Terminology used in this study follows Masumoto (1999). Measurements were as follows: body length: length of the body from the anterior edge of the clypeus to elytral apex with the head in its natural position; pronotal length: length of the pronotum along the midline; scutellar striae length: length of the scutellar striae from the base of the scutellum to the last puncture of the scutellar striae; 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.

The type specimens are deposited in Hebei University Museum, Baoding, Hebei (HBUM).

## **Taxonomy**

### ***Uenostongylium gaoi* Lin & Yuan sp. nov. (Figs 1–13)**

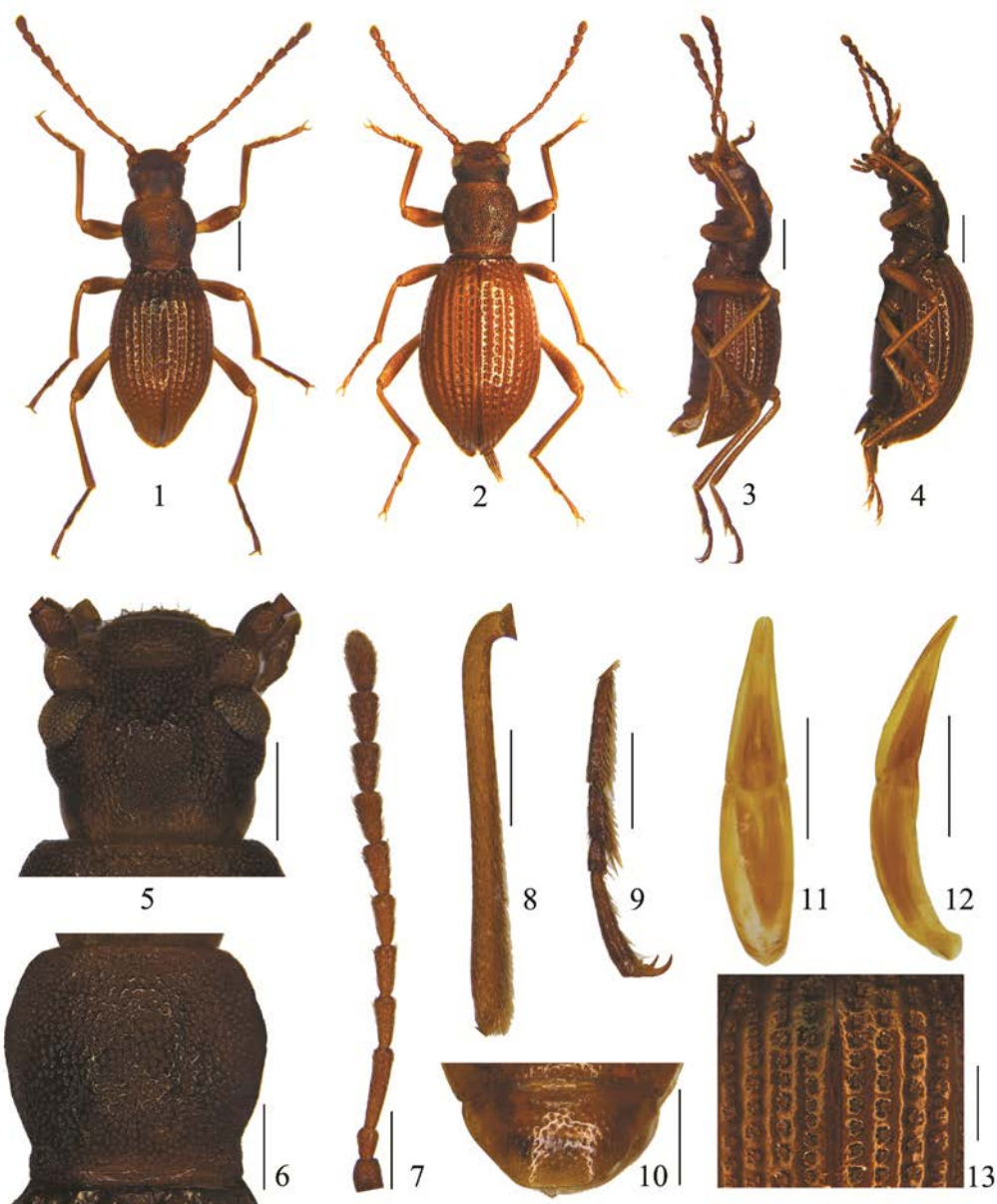
Body length. 6.00–6.43 mm.

Male. Body oblong-oval, obviously constricted at pronotal and elytral bases, strongly convex dorsad, without hind wings. Light brown, with head and pronotum darker in color; head, pronotum and legs weakly shining, elytra strongly shining. Head and pronotum with very short, adpressed hairs but appearing almost glabrous, elytra glabrous.

Head densely and coarsely punctuate; clypeus with very dense and fused punctures, anterior margin straight; frontoclypeal suture grooved, very weakly concaved in middle, extending to outer margins; genae subsphaeroidal convex with rounded outer margins; frons very wide, covered with very dense, coarse and fused punctures, longitudinally impressed at middle, distance between eyes 2.00 times as wide as transverse diameter of an eye in dorsal view; eyes small, subreniform in lateral view, weakly protruding laterad; antennae subfiliform, reaching basal 1/3 of elytra, ratio of lengths of antennomeres 2–11 is 0.20, 0.51, 0.34, 0.32, 0.33, 0.34, 0.32, 0.32, 0.32, 0.41.

Pronotum 1.08 times as wide as long, widest at apical 3/8, gradually narrowing anteriorly and weakly arcuately posteriorly, constricted near posterior angles; dorsum moderately convex; anterior margin straight, rigidly convex, closely punctuate, posterior margin moderately boldly rimmed, nearly straight; lateral margins without borders, but moderately convex along lateral margins; anterior angles rounded, posterior angles obtuse; disc very densely, coarsely and irregularly punctuate, each puncture with a very short and adpressed hair, transversely impressed near anterior margin, vaguely rounded, impressed on both sides at apical 2/5, shallowly, longitudinally impressed at basal 1/2 along middle line; scutellum transversely triangular, weakly raised in middle, with few punctures.

Elytra ovate, 1.71 times as long as wide, 2.54 times the length and 1.36 times the width of pronotum, widest at basal half; dorsum strongly convex, highest at basal half; scutellar striae very short, only one puncture, about 1.42 times longer than the scutellum; disc with 9 striae, stria punctures large and deep, bottom flattened and elliptical in dorsal view, upper edge with 2–4 granules arranged irregularly on each side and petaloid, especially both sides; intervals weakly wider than width of the punctures, moderately convex, glabrous, nearly impunctate.



Figures 1–13. Habitus and external characters of *Uenostrongylium gaoi* Lin & Yuan **sp. nov.** 1. Male, dorsal view; 2. Female, dorsal view; 3. Male, lateral view; 4. Female, lateral view; 5. Head; 6. Pronotum; 7. Antennae; 8. Metatibia; 9. Metatarsus; 10. Abdominal ventrite V; 11. Male genitalia, dorsal view; 12. Male genitalia, lateral view; 13. Punctures on elytra. Scale bars = 1 mm (Figs 1–4); 0.5 mm (Figs 5–13).

Ventral surface of body densely punctate, each puncture with a short decumbent hair; Prosternum coarsely punctate, strongly raised between procoxae, longitudinally impressed in median line, erect descending posteriad, prosternal process rounded, coarsely punctate, apex

weakly convex; mesosternum short, coarsely punctuate, raised in V-shape between mesocoxae; metasternum as long as mesosternum, unequally punctuate. Abdominal surface with sparse and moderately large punctures, ventrite V simple with apical edge truncated.

Legs elongated, densely punctuate, all tibiae almost straight, tarsi long, ratio of metatarsomeres 1–4 is: 0.57, 0.16, 0.29, 0.59.

Male genitalia subfusiform, 1.43 mm long, 0.30 mm wide, apicale 0.83 mm long, gradually narrowed apically.

Female. Body longer and stouter than male, pronotum weakly impressed on both sides at basal 1/2 and obviously impressed at basal 1/4.

**Holotype.** ♂, **China**, Guangdong, Liuhao Lindao, Nanling National Nature Reserve, Ruyuan, 1400 m, 05-VIII-2009, Lei GAO leg. (HBUM); **Paratype.** 1♀, **China**, Guangdong, Nanling National Nature Reserve, Ruyuan, 1150–1500 m, 05-VIII-2009, Lei GAO leg. (HBUM).

Etymology. The specific epithet is in honor of Lei GAO, who offered the type specimens of this new species.

Diagnosis. This new species is similar to *Uenostrongylium scaber* Yuan & Ren, 2018 from Zhejiang, but can be obviously distinguished from the latter by the following characters: scutellar striae with one puncture, very short, about 1.42 times longer than the scutellum; upper edge of striae punctures on elytra with 2–4 granules which are mainly and irregularly arranged on each side.

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