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최원석 Wonseok Choi e-mail: ws.choi@d-smallworld.com

Associate Editor

장서준 Seo-jun Chang e-mail: dorajil026@naver.com

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Taxonomic notes on *Figulus gestroi* Nagel, 1928 (Coleoptera: Lucanidae: Figulini) from New Guinea

SEO-JUN CHANG¹

1. 장서준, Bucheon-si, Gyeonggi-do, Republic of Korea (email: dorajil026@naver.com)

초록

Figulus gestroi Nagel, 1928는 원기재 이후 거의 연구되지 않은 종이다. 본 연구에서는 인도네시아 뉴기니에서 채집된 표본을 바탕으로 *F. gestroi*의 외부 형태와 암·수 생식기를 처음으로 도해하였다. Nagel의 기준표본은 제2차 세계대전 중 소실된 것으로 추정되며, 향후 신모식표본의 지정이 필요할 가능성이 있다.

Abstract

Figulus gestroi Nagel, 1928 has remained poorly known since its original description. Based on newly collected specimens from Indonesian New Guinea, the external morphology and the male and female genitalia of *F. gestroi* are illustrated for the first time. As Nagel's type material was likely destroyed during World War II, designation of a neotype may be required in the future.

Keywords: Lucanidae, *Figulus*, New Guinea.

Introduction

The lucanid genus *Figulus* MacLeay, 1819 is a large genus comprising more than 140 species (Allsopp & Schoolmeesters, 2026). However, many species remain poorly known because they have not been critically examined since their original descriptions.

Among these, *Figulus gestroi* Nagel, 1928 has remained virtually unknown since its original description. The species has never been illustrated in detail, and neither the male nor female genitalia have been documented. Moreover, the Nagel collection is believed to have been destroyed during World War II, leaving the taxonomic identity of the species dependent solely

on the original description.

The present study documents newly collected specimens of *F. gestroi* from Indonesian New Guinea and illustrates the external morphology and genitalia of both sexes for the first time.

Materials & Methods

Photographs of the specimens were taken using a digital camera (Canon EOS R6 Mark III) with a macro lens [AstrHori 25mm F2.8 Macro lens]. Image stacking was processed using Zerene Stacker and editing was processed using Adobe Photoshop (Adobe Inc. San Jose, CA, USA). Terminology mainly follows Holloway (2007) and Huang & Chen (2017). Examined specimens are deposited in SCC, personal collection of Seo-Jun Chang, Seongnam-si, Korea.

Taxonomy

Family Lucanidae Latreille, 1804 사슴벌레과

Subfamily Lucaninae Latreille, 1804 사슴벌레아과

Tribe Figulini Burmeister, 1847 꼬마사슴벌레족

Genus *Figulus* Macleay, 1819 꼬마사슴벌레속

Figulus gestroi Nagel, 1928 (Figs. 1–3)

Figulus gestroi Nagel, 1928: 294; Didier & Séguy, 1953: 181; Benesh, 1960: 26; Maes, 1992: 37; Taroni, 1998: 32; Krajcik, 2001: 10; Krajcik, 2003: 77; Bomans, 2007: 379; Bartolozzi et al., 2011: 44.

Material examined. 1♂, 2♀: Arso, Keerom, Jayapura, Papua, Indonesia, XII. 2025 (SCC).

Remarks. The examined specimens, particularly the characteristic shape of the mentum, are consistent with the original description and illustration by Nagel (1928) (Figs. 1, 2C). The external morphology and the male and female genitalia of *Figulus gestroi* are illustrated here for the first time (Fig. 3), providing morphological information useful for future identification of the species. Although Bomans (2007) treated *F. gestroi* as *incertae sedis* due to the inability to examine the type material and determine its antennal segment count, the examined specimens clearly possess 10-segmented antennae, supporting its placement in the nominal subgenus *Figulus*. Nagel's type specimens were destroyed during World War II (Paulsen, 2017; Huang & Chen, 2023; Monte et al., 2023). Consequently, the type material of *F. gestroi* is likely lost, and designation of a neotype may be required in the future.

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Reviewer Disclosure

This article has been reviewed by Mr. Jing-Zhi Lin (Taipei, Taiwan) and Mr. Xuhongyi Zheng (Nanjing Normal University, China).

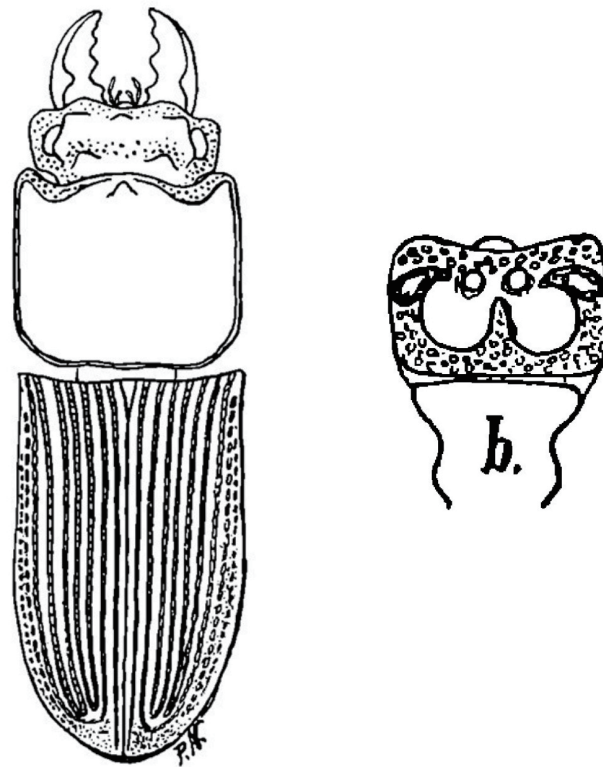


Figure 1. *Figulus gestroi* Nagel. original illustration of dorsal habitus and mentum, after Nagel (1928).

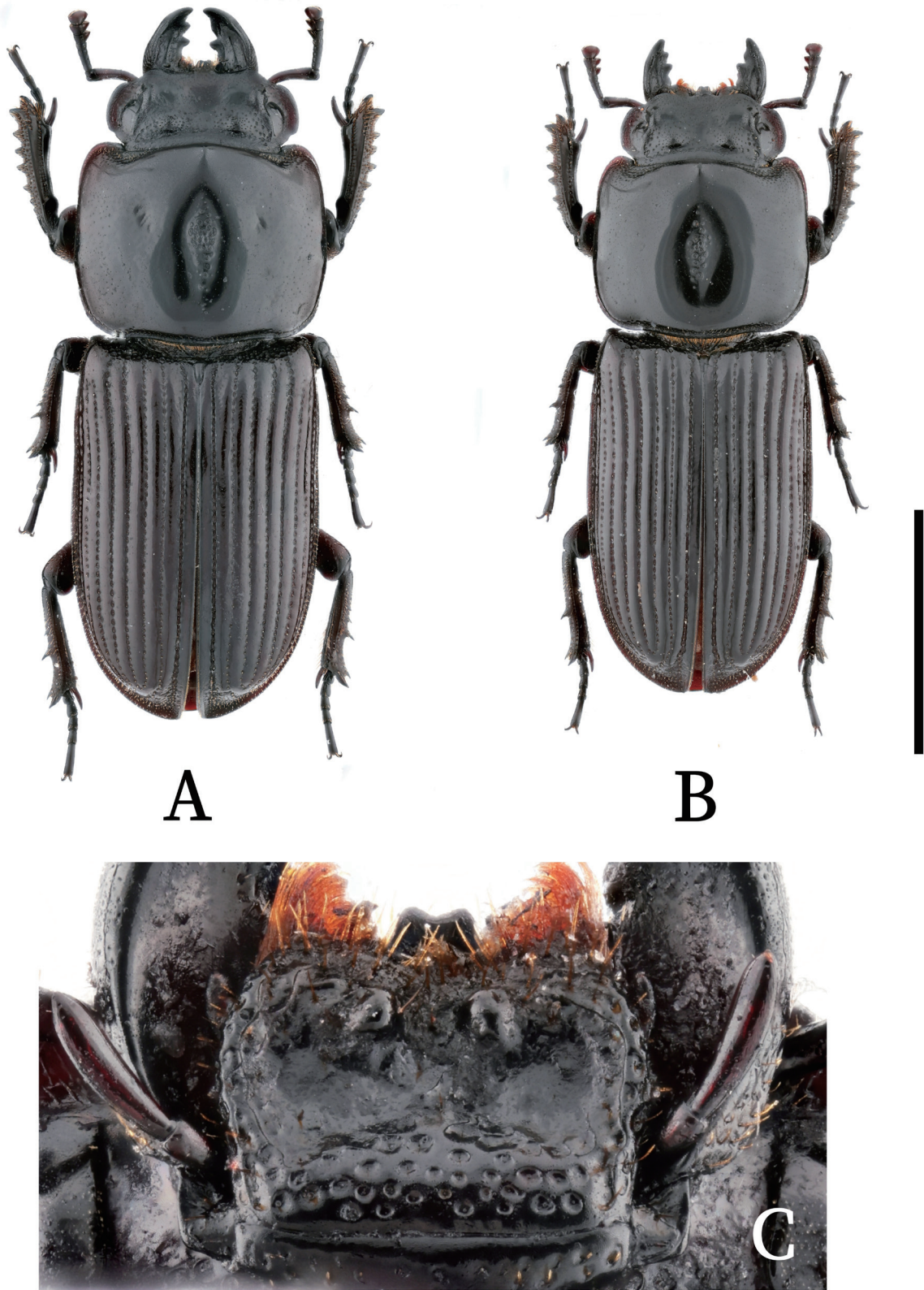


Figure 2. *Figulus gestroi* Nagel. (A) dorsal habitus of male; (B) dorsal habitus of female; (C) mentum of female. Scale bar: 5 mm.

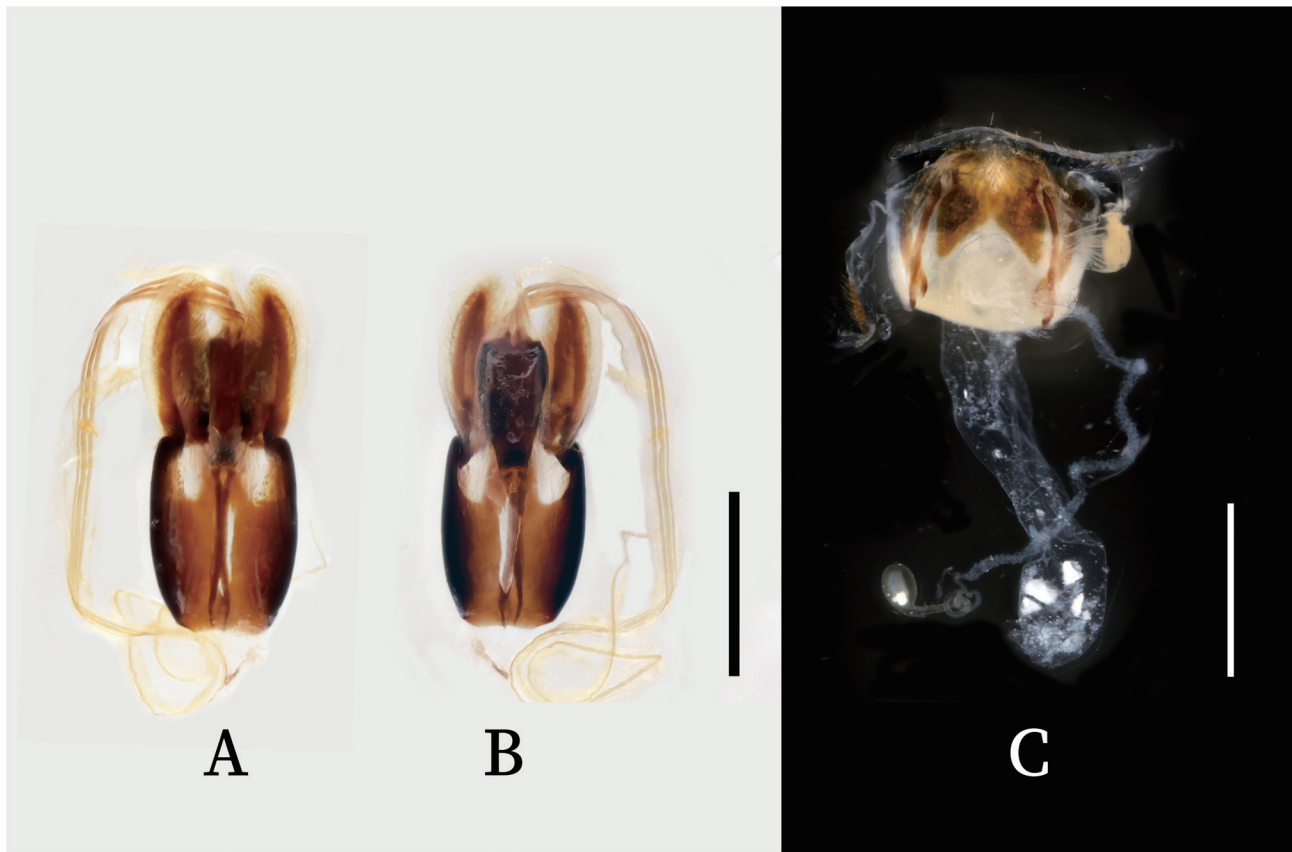


Figure 3. Genitalia of *Figulus gestroi* Nagel. (A–B) male genitalia. (A) dorsal view; (B) ventral view; (C) female genitalia. Scale bars: 2 mm.

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