

## A New Species of the Genus *Asiopodabrus* (Coleoptera, Cantharidae) from Western Honshu, Japan

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**Abstract** A new species of the genus *Asiopodabrus* is described from western Honshu, Japan as *Asiopodabrus* (*Asiopodabrus*) *jakuchisanus* sp. nov.

### Introduction

In one of my determination works for the cantharid beetles of Yamaguchi Prefecture, requested by Mr. Shin-ichi TANAKA in 2019, I tentatively determined a species as *Asiopodabrus* (*Asiopodabrus*) *ishidai* (NAKANE et MAKINO, 1990) based only on four specimens (TANAKA, 2020). Later, many specimens belonging to the species were collected additionally by the same person in 2020. As a result of my reexamination of the specimens in detail, I found that this species was not *A. (A.) ishidai* but an unidentified species closely related to *A. (A.) tajimensis* (NAKANE et MAKINO, 1990). I am going to describe this species as new in this paper.

Before proceeding, I wish to express my gratitude to Mr. Shin-ichi TANAKA of Shûnan-shi for giving me an opportunity to examine the valuable specimens.

### Material and Methods

The male genitalia of the specimen was treated with 10% potassium hydroxide solution at 90°C for approximately 10 min and sketched in 50% glycerin.

The abbreviations used in the text are as follows: HW: head width; PW: pronotum width; PL: pronotum length; PA: width of anterior margin of pronotum; PB: width of basal margin of pronotum; EW: elytra width; EL: elytra length.

The holotype designated in this paper is deposited in the collection of the Kanagawa Prefectural Museum of Natural History, Odawara. The paratypes are preserved in the collection of Mr. TANAKA, as well as in my own collection.

### Description

*Asiopodabrus* (*Asiopodabrus*) *jakuchisanus* sp. nov.

(Figs. 1–2)

[Japanese name: Jakuchi-kubiboso-jôkai]

**M a l e.** Body largely yellowish brown or pale yellowish brown; antennae with segment 2 infusate in apical half, 3–11 brownish black; head behind eyes, a pair of longitudinal macula on pronotum, scutellum except for apical part, prosternal process, mesosternum except for median part, meta-



Fig. 1. Male habitus of *Asiopodabrus* (*Asiopodabrus*) *jakuchisanus* sp. nov.

sternum and metaepisterna brownish black; middle area between two maculae on pronotum slightly darkened; apical half of mandible dark testaceous; sternites 2 to 8 dark brown except for lateral and posterior margins yellowish white.

Head scattered with fine punctures in the front, rather closely covered with moderate-sized punctures behind the eyes, and densely covered with fairly large punctures on the neck. Eyes prominent; interocular distance 3.47 times the width of the eye (holotype; range: 3.40–3.71). Antenna filiform, reaching basal one-fourth portion of the elytra; the comparative ratio of the lengths of the antennal segments of the holotype as follows: 1.91 : 1.00 : 1.03 : 1.50 : 1.45 : 1.43 : 1.40 : 1.33 : 1.30 : 1.25 : 1.57.

Pronotum obviously wider than long, widest at basal two-thirds; frontal margin slightly and basal margin distinctly curved inward, lateral margins sinuate; anterior angles rather angulate, posterior ones slightly prominent; PW/HW 0.84 (holotype; range: 0.83–0.89), PW/PL 1.11 (1.07–1.22), PW/PA 1.38 (1.38–1.53), PW/PB 1.08 (1.06–1.12); disc very elevated except on both lateral sides, though shallowly concave in basal half; surface of the elevated area closely covered with small punctures on frontal fourth, sparsely with moderate-sized punctures on basal half and very sparsely with fine punctures on the remainder. Elytra slender; EW/PW 1.34 (holotype; range: 1.28–1.37); EL/EW 3.44 (3.38–3.54).

Male genitalia rather elongate. Ventral process relatively long and slender, nearly parallel-sided from the base to near apex, then rather abruptly narrowed toward the apex which is slightly rounded; the incision between the ventral process and the tip of the lateral side of paramere relatively deep in ventral view. Dorsal process rather slender and long, nearly parallel-sided, slightly curved inward, nearly V-shaped together; the end of incision not reaching the base (Fig. 2).

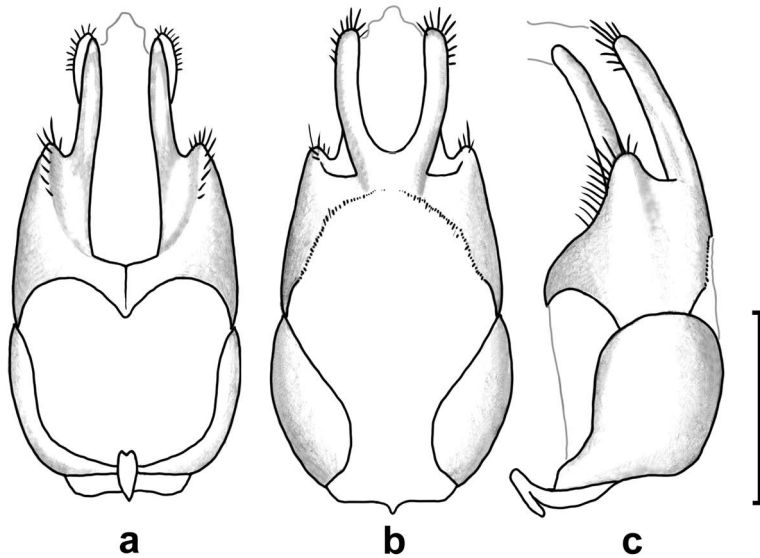


Fig. 2. Male genitalia of *Asiopodabrus (Asiopodabrus) jakuchisanus* sp. nov. — a, Ventral view; b, dorsal view; c, lateral view. Scale: 0.5 mm.

Length: 7.3 mm (holotype; range: 6.6–8.0); breadth: 1.5 mm (1.3–1.6).

**F e m a l e.** The characteristics of the female similar to those of the male, but the body larger and wider, eyes relatively smaller, antennae somewhat shorter than in the male; clypeus bears a dark brown patch; PW/HW 0.89–0.95, PW/PL 1.20–1.29, PW/PA 1.35–1.45, PW/PB 1.07–1.13; EW/PW 1.29–1.41, EL/EW 3.23–3.36.

Length: 7.7–9.4 mm; breadth: 1.6–1.9 mm.

**Type series.** Holotype: ♂, Mt. Jakuchi-san, Usa, Nishiki-machi, Iwakuni-shi, Yamaguchi Pref., 28.V.2020, S. TANAKA leg. Paratypes: 22 ♂♂, 15 ♀♀, same data as for the holotype; same locality and collector as for the holotype: 3 ♂♂, 5.VI.2019; 1 ♀, 12.V.2020; 7 ♂♂, 22.V.2020; 7 ♂♂, 2.VI.2020; 4 ♂♂, 8.VI.2020; 1 ♂, 13.VI.2019; 1 ♂, 1 ♀, 23.VI.2020; 3 ♂♂, 1 ♀♀, same locality, 28.V.2019, K. TAKAHASHI leg.; Jakuchi-rindô, Usa, Nishiki-machi, Iwakuni-shi, Yamaguchi Pref., S. TANAKA leg.: 1♂, 13.VI.2019; 2 ♀♀, 12.V.2020; 1 ♂, 1 ♀, 23.VI.2020; 10 ♂♂, 2 ♀♀, Mt. Garyû-zan, Kitahiroshima-chô, Hiroshima Pref., 12.V.2012, K. TAKAHASHI leg.

**Distribution.** Yamaguchi and Hiroshima Prefectures, western Honshu, Japan.

**Etymology.** The name refers to Mt. Jakuchisan, the area where the type specimens were collected.

**Remarks.** The present new species is closely related to *Asiopodabrus (Asiopodabrus) tajimensis* (NAKANE et MAKINO, 1990) from Hataganaru, Hyogo Pref., Honshu. However, it can be distinguished from *A. (A.) tajimensis* using the following criteria: distinctly longer ventral and dorsal processes of paramere and deeper incision between the ventral process and the tip of the lateral side of paramere in ventral view.

## 要 約

高橋和弘：本州西部から発見された *Asiopodabrus* 属（鞘翅目ジョウカイボン科）の 1 新種。——— 山口県産のジョウカイボン科標本を同定する過程で見出された *Asiopodabrus* 属の未記載種を、ジャクチクビボソジョウカイ（新種新称）*Asiopodabrus (Asiopodabrus) jakuchisanus* sp. nov. として命名，記載した。本種は，本州西部の山口県および広島県に分布し，兵庫県から記載されたタジマクビボソジョウカイ *A. (A.) tajimensis* (NAKANE et MAKINO, 1990) に似るが，パラメアのベントラルプロセスとドーサルプロセスがより長いことおよび腹面から見てベントラルプロセスとパラメア側部先端の間の切れ込みがより深いことで区別できる。

## References

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