

A new species of genus *Cucujus* Fabricius, 1775 (Coleoptera: Cucujidae) from China

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HÁVA, J., ZAHRADNÍK, P. & RŮŽIČKA, T.: *A new species of genus Cucujus Fabricius, 1775 (Coleoptera: Cucujidae) from China.*

Abstract: *Cucujus janatai* sp. nov. from Yunnan, China is described, illustrated and compared with other Chinese species. A key to the known Chinese species of *Cucujus* Fabricius, 1775 is provided.

Keyword: Taxonomy, new species, Coleoptera, Cucujidae, Cucujus, China, Yunnan

Introduction

There are thirteen species and three subspecies of *Cucujus* Fabricius, 1775 from the family Cucujidae which range across the Holarctic and Oriental Regions (WĘGRZYNOWICZ 2007, LEE & SATŌ 2007, LEE & PÜTZ 2008, HORÁK & CHOBOT 2009, ZHAO & ZHANG 2019). The aim of the present paper is to describe a new species from Yunnan province, China and all of the recognized Chinese species are keyed.

Material and methods

The following abbreviations are used to define the deposition of the holotype and paratypes:

FGMRI - Forestry and Game Management Research Institute, Jiloviště, Czech Republic (Petr Zahradník);

JHAC - Jiří Háva, Private Entomological Laboratory & Collection, Únětice u Prahy, Prague-west, Czech Republic;

MJPC - Miroslav Janata, private collection, Prague, Czech Republic;

PZAC - Petr Zahradník, private collection, Prague, Czech Republic;

TRAC - Tomáš Růžička, private collection, Prague, Czech Republic.

Specimens of the presently described species are provided with a red printed label with the following text: "HOLOTYPE [or PARATYPE] *Cucujus janatai* sp. nov. J. Háva, P. Zahradník & T. Růžička det. 2019".

Description

Cucujus janatai sp. nov. (Figs. 1-8)

Type material. Holotype (♂): China, NW Yunnan, valley 12 km SW of Dongwangxiang Mts S of Huoiu vill., N 28°25' 08'', E 99°36' 45'', 4390 m, 26-31.5.2019, lgt. R. Sehnal & M. Janata, (FGMRI). Paratypes: (7 spec.): same data as holotype, (1 ♂, 1 ♀ PZAC, 2 ♂♂ JHAC, 2 ♀♀ TRAC, 1 ♂ MJPC).

Description. Male (Fig. 1). Body length 13.2 mm. Color: dorsal and ventral surfaces dark red and black, setae black.

Head (Figs. 2-3): dark red with black labrum, clypeus and anterior part, triangular, distinctly wider than pronotum; dorsal surface with dense and large punctures, somewhat converging near fronto-clypeal area, rather closer and rounded on vertex, reduced on temples, front margins of clypeus and areas above antennal insertions smooth, occipital furrow dull, eyes strongly projecting and highly convex; moderately covered with short black setae, clypeus with several pairs of long setae; ventral surface smooth, with quite sparse and minute punctures, genae and mentum bearing scattered, moderate-sized punctures; genae with short setae which are converging on the front and genal horns, mentum moderately setose, each side with several long setae; temples well swollen. Mandibles black (Fig. 3). Antennae black with 11 antennomeres covered by black setation.

Pronotum (Fig. 2) dark red, each lateral margin with 7-9 tubercles; with broad median cruciate depression; punctures dense and large, closer and prominent on depressions, rather reduced on margins, area around posterior angles abruptly dull with several minute punctures; with mainly moderate or short setae, with long setae along lateral margins.

Scutellar shield: black, obtuse-pentagonal, slightly wider than long; with irregular, close and small punctures and circular depression.

Elytra (Fig. 1): dark red, elongate, finely punctured, with very short setae along margins, setae longer near apex of elytron.

Legs: black, with scattered and small punctures, somewhat larger on femora; with moderate and short setae converging near apices of tibiae.

Abdomen: black, with confused and small punctures, smooth near sutures; abdominal sterna bearing moderate setae, posterior margin of fifth sternum with long setae.

Pygidium: black, with small and regular punctures; with short setae, setae prolonged near apex.

Male genitalia as in Figs. 5-6.

Female. Externally similar to male. Body length 15 mm. Female genitalia as in Figs. 7-8.

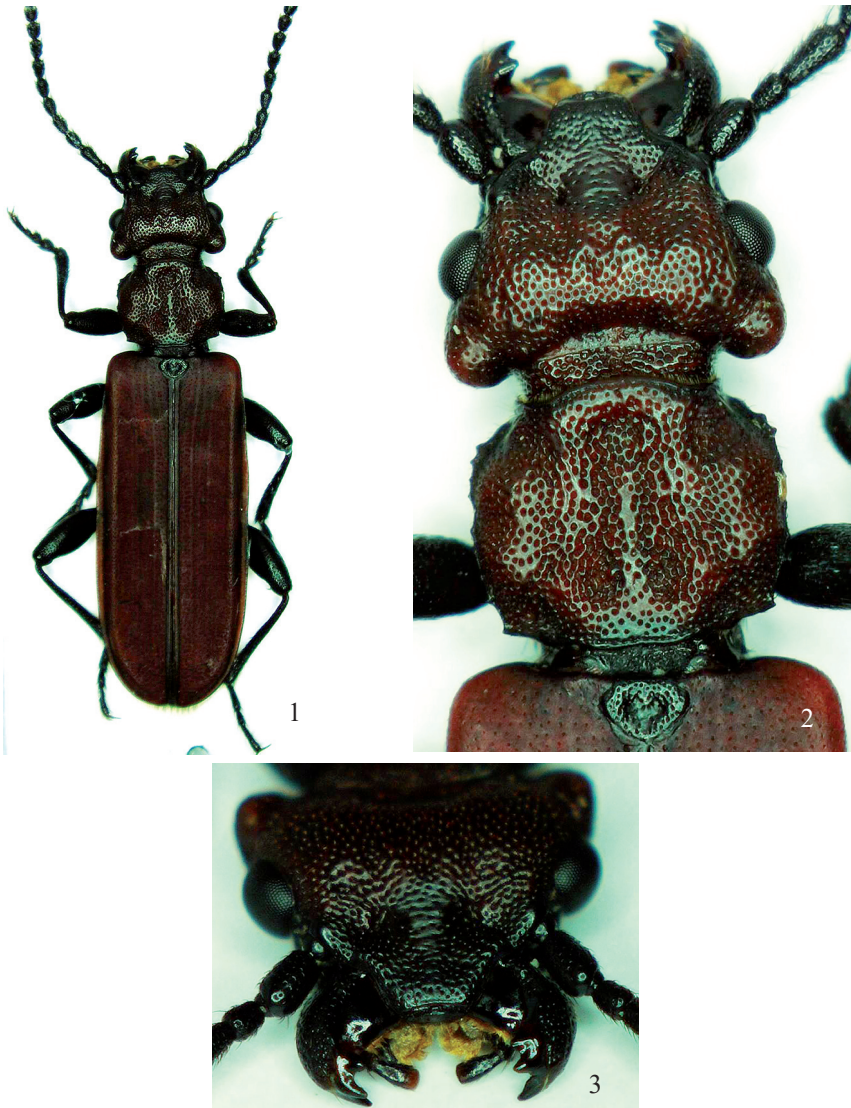
Variability. Body length 12-15 mm.

Diagnosis. The new species differs from other known Chinese *Cucujus* species by the characteristics in the following key.

Etymology. Patronymic, dedicated to the collector of the new species, Miroslav Janata (Prague, Czech Republic).

Bionomy. Specimens collected at an altitude of 4390 m, under and on the bark of *Abies* sp. Type locality as in Figs. 8-9 (Photo by R. Sehnal).

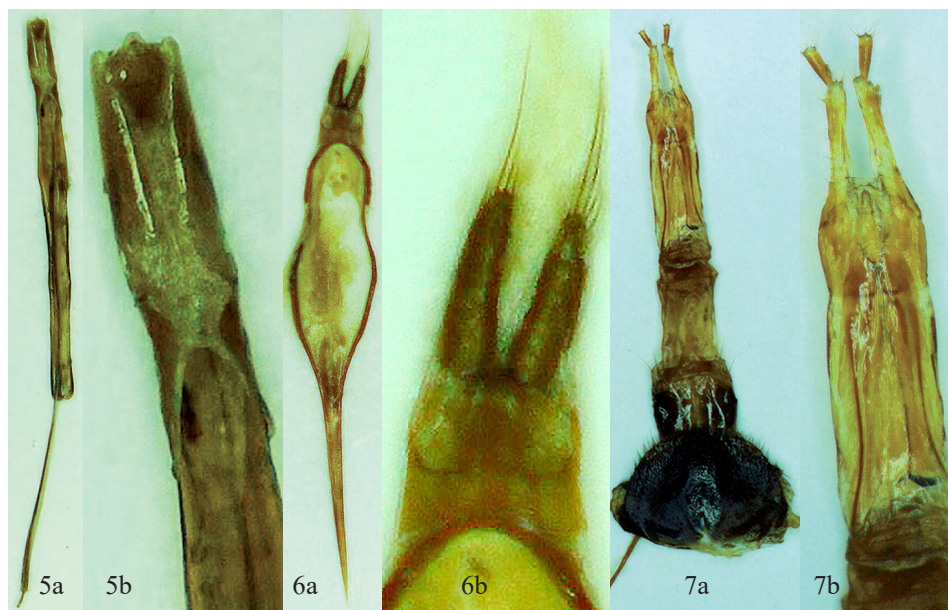
Distribution. China: Yunnan province.



Figs. 1-2: *Cucujus janatai* sp. nov.: 1- habitus, dorsal aspect; 2- head, pronotum and scutellum; 3- head with mandibles



Fig. 4: *Cucujus janatai* sp. nov. wing



Figs. 5-7: *Cucujus janatai* sp. nov.: 5a,b- median lobe; 6a,b- parameres; 7a,b- female genitalia



Figs. 8-9: Type locality of *Cucujus janatai* sp. nov., China: NW Yunnan

Modified key to Chinese *Cucujus* species

1. elytra with longitudinal and elevated carinae *C. costatus* Zhao & Zhang, 2019
 - elytra without elevated structures, sometimes with vague longitudinal lines2
2. temples nearly horizontal, weakly produced posteriorly3
 - temples swollen, distinctly produced posteriorly4
3. pronotal surface with tubercles; both elytra about 2.6 times as long as wide
 *C. chinensis* Lee & Satô, 2007
 - pronotum with indistinct depressions; both elytra about 2.9 times as long as wide
 *C. elongatus* Lee & Pütz, 2008
4. elytra black or blue5
 - elytra red6
5. legs black; elytra blue with fine punctures 19.6-24.7 mm
 *C. mniszewi* Grouvelle, 1874
 - legs dark brown; elytra black with prominent punctures; length 15.3-17.2 mm
 *C. nigripennis* Lee & Satô, 2007
6. pronotum wider than head, with prominent denticles *C. kempfi* Groveller, 1913
 - pronotum narrower than head with rather small denticles7
7. head and pronotum black; anterior angles of pronotum subrectangular
 *C. haematodes opacus* Lewis, 1888
 - head and pronotum red8
8. scutellum red; labrum red; mandibles red
 *C. haematodes haematodes* Erichson, 1845
 - scutellum black; labrum black; mandibles black *C. janatai* sp. nov.

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