

Linzer biol. Beitr.	50/2	1055-1059	17.12.2018
---------------------	------	-----------	------------

## A new species of *Odontacrossus* DELLACASA, KRÁL, DELLACASA & BORDAT, 2014 (Coleoptera: Scarabaeidae: Aphodiinae)

Axel BELLMANN

**A b s t r a c t :** *Odontacrossus esseri* nov.sp. from Myanmar and China is described and illustrated. A key to the species of *Odontacrossus* DELLACASA et al., 2014 is given.

**K e y w o r d s :** Coleoptera, Scarabaeidae, Aphodiinae, *Odontacrossus*, Oriental region, Myanmar, China, taxonomy, new species, key to species.

### Introduction

The recently described, Oriental genus *Odontacrossus* DELLACASA et al., 2014 previously included three species. A study of Aphodiinae material from Myanmar and China yielded a fourth species of this genus.

### Material and methods

The specimens were examined with a Nikon SMZ 800 stereomicroscope. The photographs were taken with a Canon EOS 1000D, a Rodenstock Ysaron 60 mm objective, a Leitz Ultropak 6.5 mm objective and with Helicon Focus 6 Pro software.

Morphological terms for this description were adopted from DELLACASA et al. 2001.

Type material is deposited in the author's collection (CAB) and in the private collections of M. Langer (Niederwies, Germany) (CML) and Christoph Reuter (Hamburg, Germany) (CCR).

### Descriptions

#### *Odontacrossus esseri* nov.sp. (Figs 1-4)

**T y p e m a t e r i a l :** **Holotype** ♂: Myanmar (Burma), Provinz Kachin State, Pangwa env. (TF)(H = 2.450 m) 28.IX.2010, N 25°37'42.3'' E 098°23'22.5'' leg. Michael Langer, S. Naumann & S. Löffler / coll M. Langer / *Odontacrossus esseri* sp. nov. HOLOTYPE det. A. Bellmann 2018 (CAB); Paratypes ♂♀: same data as holotype, 3♀ (CAB, CML); China-Yunnan, Yanmen, 13.6.-23.6.2005, lgt. E. Kučera / *Aphodius pseudoobenbergeri* / *Odontacrossus esseri* sp.nov. PARATYPE det. A. Bellmann 2018, 1♂, 2♀ (CAB); China, W-Yunnan, NE of Fuggong, Nujiang massiv, 3440 m, 26°57'32''N, 98°56'44''E, 14.VI.2017, leg. Reuter / *Odontacrossus esseri* sp. nov. PARATYPE det. A. Bellmann 2018, 1♂, 1♀ (CAB, CCR).

**E t y m o l o g y :** The new species is dedicated to my friend and colleague Jens Esser (Berlin, Germany), specialist of Cryptophagidae, who accompanied me in the study of Coleoptera for the last 30 years.

**D e s c r i p t i o n :** 6.8-7.3 mm. Body elongate, convex. Dorsal surface with weak microreticulation, moderately shiny. Elytra apically and laterally with short setae. Colour of body entirely piceous-black, elytra with the apex rather broadly dark reddish-brown, pronotum laterally sometimes reddish brown. Legs piceous, antennal club black.

**M a l e :** Habitus as in Figs 1-3. Head large, without tubercles; clypeal margin semicircular with a triangular process protruding from the middle of the clypeal margin; genae nearly angulate, eyes distinctly protruding. Frontal suture finely impressed. Epistoma nearly flat. Punctuation simple, with regularly distributed punctures, interstices 3-5 times as wide as diameter of punctures.

Pronotum transverse, anterior angles rounded and feebly protruding. Sides subparallel, posterior angles truncate. Basal margin protruding posteriorly, weakly sinuate on either side. Lateral margins thickly bordered, basal and anterior margin not bordered. Lateral margins without any setae. Punctuation double with regularly distributed small punctures, and scattered bigger punctures on disc and on sides, in basal half medially with a short impunctate line.

Scutellum triangular, basally with several punctures.

Elytron long, 1.3 times as long as combined width of elytra, widest at middle. Humerus with denticle. Striae narrow, moderately deep and weakly crenulate. Punctuation of intervals slightly finer and sparser than that of head and pronotum; intervals feebly convex, laterally and apically with short setae.

Protibiae of normal shape, externally with three triangular teeth and 6 small denticles, apical spur acuminate, slightly curved outwards. First metatarsomere as long as the following three combined, as long as superior spur. Claws as in Fig. 6.

Metasternal plate feebly concave, finely microreticulated, with some small irregular punctures, marginal punctures with few short erect setae, medially with indistinctly impressed line.

Aedeagus as in Figs 4-5.

Epipharynx as in Fig. 10.

**F e m a l e :** Clypeal margin without a triangular process protruding from the middle of the clypeal margin; punctuation of pronotum coarser and denser. Metasternal plate feebly concave, shiny, finely microreticulated, with some irregular punctures, medial with weakly impressed line, glabrous.

**D i a g n o s i s :** *Odontacrossus esseri* nov.sp. is most similar to *O. obenbergeri* (BALTHASAR, 1932). It differs from the latter in size, shape of the claws (Figs 6-7), punctuation of the head and pronotum and in the male genitalia. Both species are easily separated by using the key provided below.

**D i s c u s s i o n :** One specimen (author's collection) of *Odontacrossus pseudoobenbergeri* (ČERVENKA, 1995) was found together with the type material of *O. esseri* in one of the localities China-Yunnan, Yanmen. The species was recorded from this locality also by DELLACASA et al. 2014.

**Key to the species of *Odontacrossus*** (based on DELLACASA et al. 2014)

- 1 Clypeal margin trapezoidal, laterally distinctly outwardly curved before reaching the genal sutures. Head and pronotum blackish, sides of pronotum shadily brownish, elytra more or less dark-brown. Claws as in Fig. 8. Length 5.5–6.8 mm. China (Xizang, Yunnan), Myanmar (Kachin) ..... *O. pseudoobenbergeri* (CERVENKA, 1995)
- Clypeal margin nearly semicircular, gradually arcuate before reaching the genal sutures ..... 2
- 2 Head relatively narrow; pronotum moderately transverse, dually, rather closely punctured; elytral interstriae almost flat. Head and pronotum piceous, the latter extensively yellowish laterally towards anterior angles; elytra entirely brownish or yellowish with juxtasutural interstria and lateral margin brownish. Claws as in Fig. 9. Length 4.5–5.5 mm. Nepal, India (Arunachal Pradesh, West Bengal) ..... *O. trisuliensis* (SEBNICKA, 1986)
- Head relatively large; pronotum strongly transverse, dually, not closely punctured; elytral interstriae slightly but distinctly convex. Head and pronotum blackish; elytra entirely piceous-black or with the apex rather broadly dark reddish brown ..... 3
- 3 Head with epistoma feebly convex at middle. Head and pronotum more strongly and more densely punctured; aedeagus short, as long as metatibia. Claws as in Fig. 7. Length 5.0–6.5 mm. China (Gansu, Sichuan) ..... *O. obenbergeri* (BALTHASAR, 1932)
- Head with epistoma nearly flat at middle. Head and pronotum more finely and more sparsely punctured. Aedeagus long, about 1.4 times as long as metatibia. Claws as in Fig. 6. Length 6.8–7.3 mm. Myanmar (Kachin), China (Yunnan) ..... *O. esseri* nov.sp.

**Acknowledgements**

My thanks are due to Michael Langer and Christoph Reuter for making parts of the material of *O. esseri* available to me and for the generous gift of the holotype, as well as Volker Assing (Hannover, Germany) for linguistic improvements.

**Zusammenfassung**

*Odontacrossus esseri* nov.sp. aus Myanmar und China wird beschrieben und abgebildet. Ein neuer Bestimmungsschlüssel für die Gattung *Odontacrossus* wird gegeben.

**References**

- DELLACASA G., BORDAT P. & M. DELLACASA (2001): A revisional essay of world genus-group taxa of Aphodiinae (Coleoptera Aphodiidae) — *Memorie della Società Entomologica Italiana* **79**: 3-482.
- DELLACASA G., KRÁL D., DELLACASA M. & P. BORDAT (2014): New genus *Odontacrossus* for *Aphodius* (*Acrossus*) *obenbergeri*, *A. (A.) pseudoobenbergeri* and *A. (Paulianellus) trisuliensis* (Coleoptera: Scarabaeidae: Aphodiinae) — *Acta Societatis Zoologicae Bohemicae* **78**: 163-170.

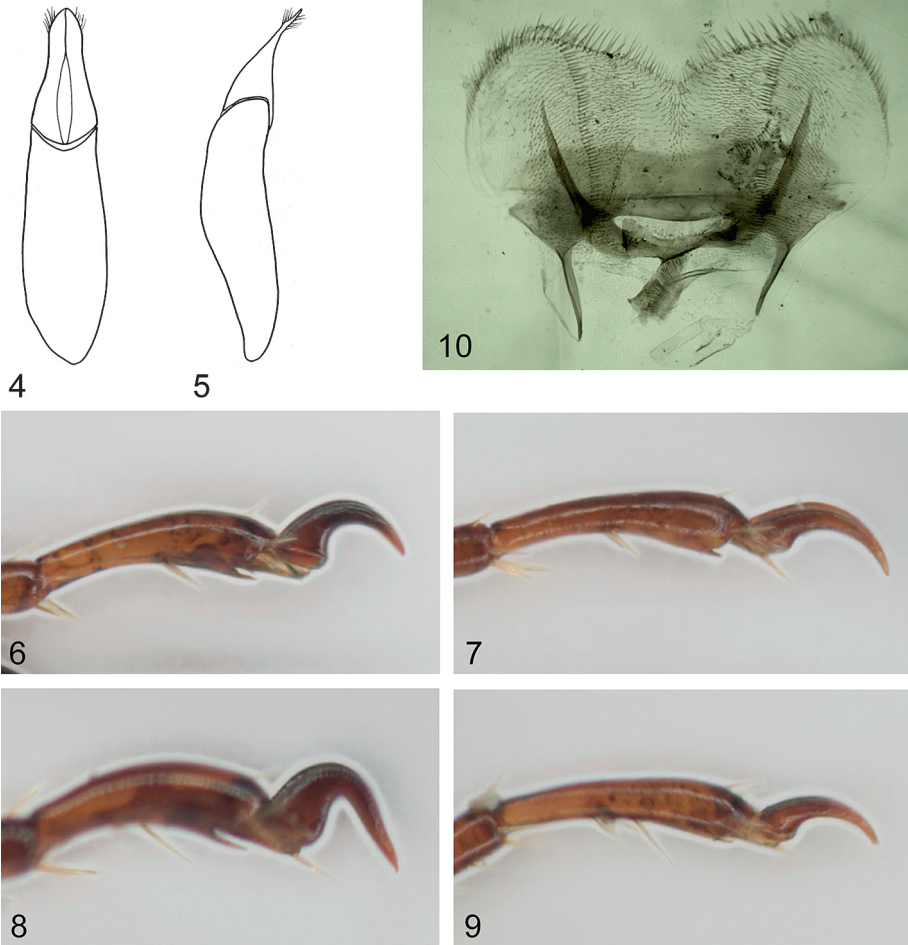
Author's address:

Axel BELLMANN  
Kirchlintelner Str. 7a  
D-28325 Bremen, Germany  
E-mail: axelbellmann@t-online.de

1058



**Figs 1-3:** *Odontacrossus esseri* (1) facies (male, dorsal); (2) facies (male, ventral); (3) facies (male).



**Figs 4-10:** *Odontacrossus esseri* (4-6, 10), *O. obenbergeri* (7), *O. pseudoobenbergeri* (8), and *O. trisuliensis* (9): 4 – aedeagus (dorsal view); 5 – aedeagus (lateral view); 6-9 – claws; 10 – epipharynx.

# ZOBODAT - [www.zobodat.at](http://www.zobodat.at)

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Linzer biologische Beiträge](#)

Jahr/Year: 2018

Band/Volume: [0050\\_2](#)

Autor(en)/Author(s): Bellmann Axel

Artikel/Article: [A new species of \*Odontacrossus\* DELLACASA, KRÁL, DELLACASA & BORDAT, 2014 \(Coleoptera: Scarabaeidae: Aphodiinae\) 1055-1059](#)