

**Catalogue of type specimens of beetles (Coleoptera)
deposited in the National Museum, Prague, Czech Republic***

**Scarabaeidae: Scarabaeinae: Coprini, Eurysternini,
Gymnopleurini and Oniticellini**

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Abstract. Type specimens from the collection of beetles (Coleoptera) deposited in the Department of Entomology, National Museum, Prague, are currently being catalogued. In this part of the catalogue dealing with the Scarabaeoidea, we present precise information on the types of 77 taxa of the tribe Coprini, four taxa of Eurysternini, 10 taxa of Gymnopleurini and 20 taxa of Oniticellini.

Key words. Catalogue, type specimens, National Museum, Scarabaeidae, Scarabaeinae, Coprini, Eurysternini, Gymnopleurini, Oniticellini

Introduction

This work represents the fifth part of the catalogue of type specimens of beetles (Coleoptera) deposited in the collection of the National Museum, Prague, Czech Republic (NMP; NMPC when referring to the collection); the first part was published by BEZDĚK & HÁJEK (2009). This part deals with the tribes Coprini, Eurysternini, Gymnopleurini and Oniticellini belonging to the subfamily Scarabaeinae. Along with the paper, a database of all the types including photos for most types and a copy of their original description is available upon request.

As in the previous parts, we begin by presenting brief information about the most important collections mentioned in the catalogue:

The collection of František Antonín Nickerl (1813–1871), Otakar Nickerl sen. (1838–1920) and Otakar Nickerl jun. (1873–1904) represents one of the oldest and largest collections in NMP. It is important as it contains a number of types from the 19th century, Nickerl's active

* Catalogue of type specimens in NMPC, part 5

communication, exchange and purchase of material brought, e.g., the types of Edgar von Harold (1830–1886).

The Collection of Vladimír Balthasar (1897–1978) represents the most important specialised collection of the scarabaeoid families in NMP. It contains ca. 40,000 specimens including types of more than 500 species. Although, most of the species were described by V. Balthasar himself, the collection also contains types of some Balthasar's other contemporaries: Hermann Luederwaldt (1865–1934), Zdeněk Tesař (1907–1985), Eric G. Matthews (born 1932), and Gonzalo Halffter (born 1932). Most recently, François Génier (born 1960) revised a large part of Balthasar's taxa and described additional new species, of which numerous types are now deposited in Balthasar's collection as well.

Types from the collection of David Král (born 1959) comprise the complete type material (70 holotypes and 445 paratypes) of the collection of this contemporary Czech specialist on Scarabaeoidea. It includes, beside the species he described himself, specimens exchanged with other specialists, e.g., Kimio Masumoto, Jiří Zidek, and Svatopluk Pokorný.

For additional information, see also BEZDĚK & HÁJEK (2009, 2010a,b, 2011).

Material and methods

Recent concepts of higher classification in the Scarabaeoidea are largely inconsistent. The classification used in this catalogue follows SCHOLTZ & GREBENNIKOV (2005). Tribal classification of the subfamily Scarabaeinae is adopted from HANSKI & CAMBEFORT (1991) and partially modified according to MONTREUIL (1998) and VAZ-DE-MELLO (2008): Ateuchini, Canthonini, Coprini, Eucraniini, Eurysternini, Gymnopleurini, Oniticellini, Onitini, Onthophagini, Phanaeini, Scarabaeini and Sisyphini. Because the subfamily Scarabaeinae is species rich, it is catalogued in three parts and particular tribes will be listed in alphabetical order.

Within each subfamily/tribe, the genera and species are arranged alphabetically. Each entry includes:

- the name of the taxon in original combination.
- the name of the taxon in original combination and spelling, with the author and year of description. Pagination, figures and plates are also given.
- the name-bearing type, number of specimens (including their sex if known) and exact label data. Our remarks are found in square brackets: [p] – preceding data are printed, [hw] – preceding data are handwritten. Separate labels are indicated by a double slash '/' and lines within each label are separated by a slash '/'.
- the current taxonomic status.
- the type condition is mentioned for considerably damaged specimens.
- any taxonomic problems and inconsistencies are mentioned under Remarks.

Full reference to each publication can be found in References.

The types of infrasubspecific entities, i.e., names not regulated by the International Code of Zoological Nomenclature (ICZN 1999: Art. 1.3.4), are listed separately and briefly.

Catalogue

Subfamily Scarabaeinae: Coprini

Canthidium angulicolle Balthasar, 1939

Canthidium angulicolle Balthasar, 1939a: 111.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): Mato grosso / Zobrys [p] // Heller determ. [p] / Choeridium / laterali Har. [hw] // Typ. [p, red label] // angulicolle m. [hw, green label, black margin]’.

Current status. *Canthidium* (*Canthidium*) *angulicolle* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

Canthidium atomarium Balthasar, 1939

Canthidium atomarium Balthasar, 1939a: 112.

One syntype is deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (unsexed specimen): ‘CAYENNE / Kourou Fl. / Le Moulit [p] // Typus [p, red label, black margin] // C. atomarium / n. sp. [hw] / Dr. V. Balthasar det. [p] // atomarium m. [hw, green label, black margin]’.

Current status. *Canthidium* (*Eucanthidium*) *atomarium* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

Canthidium atramentarium Balthasar, 1939

Canthidium atramentarium Balthasar, 1939a: 113.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): ‘Peru / W. Schnuse [p] / 28. 12. 03 [hw, green label] // 1910 / 8 [p] // Boucomont det. 1934 [p] / *Canthidium* sp. ? [hw] // Typus [p, red label, black margin] // C. atramentarium / n. sp. [hw] / Dr. V. Balthasar det. [p] // atramentarium m. [hw, green label, black margin]’.

Current status. *Canthidium* (*Eucanthidium*) *atramentarium* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

Canthidium basipunctatum Balthasar, 1939

Canthidium basipunctatum Balthasar, 1939a: 114.

One syntype is deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (♀): ‘Peruvia [hw] // Coll. B. / Schwarzer [p] // [blank red label] // *Canthidium* / basipunctatum [hw] / Dr. V. Balthasar det. [p] // basipunctatum [hw, green label, black margin]’.

Current status. *Canthidium* (*Canthidium*) *basipunctatum* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

Canthidium caesareum Balthasar, 1939

Canthidium caesareum Balthasar, 1939a: 115.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): ‘Rio de Janeiro [p, green label] // Coll. C. Felsche / Kauf 20. 1918 [p, green label] // Typus [p, red label, black margin] // *Canth.* / caesareum / n. sp. [hw] / Dr. V. Balthasar det. [p] // caesareum m. [hw, green label, black margin]’.

Current status. *Canthidium (Canthidium) caesareum* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium cavifrons* Balthasar, 1939**

Canthidium cavifrons Balthasar, 1939a: 116.

One syntype is deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (unsexed specimen): ‘Espirito Santo [p] // Coll. C. Felsche / Kauf 20. 1918 [p, green label] // Typus [p, red label, black margin] // *Canthidium / cavifrons / n. sp. m* [hw] / Dr. V. Balthasar det. [p] // *cavifrons m.* [hw, green label, black margin]’.

Current status. Valid species.

***Canthidium clypeale* Harold, 1867**

Canthidium clypeale Harold, 1867: 43.

One syntype is deposited in NMPC (ex coll. Nickerl):

SYNTYPE (unsexed specimen): ‘Harold typ. [hw, green label] // TYPUS [p, red label, black margin] // *Canthidium clypeale* Harold, Bras. typ. [hw] // *Canthidium clypeale* Har. Bras. [hw, green label, black margin]’.

Current status. *Canthidium (Eucanthidium) clypeale* Harold, 1867, see MARTÍNEZ & HALFFTER (1986).

***Canthidium coerulescens* Balthasar, 1939**

Canthidium coerulescens Balthasar, 1939a: 117.

Two syntypes are deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (unsexed specimen): ‘Santa Inéz / (Ecuad.) / R. Haensch S. [p] // Typus [p, red label, black margin] // *Canthidium / coerulescens n. sp.* [hw] / Dr. V. Balthasar det [p] // *coerulescens m.* [hw, green label, black margin]’.

SYNTYPE (unsexed specimen): ‘O. ECUADOR / Jivaria / 17. 12. 05 F. Ohs. S. // Typus [p, red label, black margin]’.

Current status. *Canthidium (Canthidium) coerulescens* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium convexifrons* Balthasar, 1939**

Canthidium convexifrons Balthasar, 1939a: 119.

One syntype is deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (♀): ‘Pischindé / Colombia / (Rosenberg) [p] // Coll. C. Felsche / Kauf 20. 1918 [p, green label] // Typus [p, red label, black margin] // *Canthidium / convexifrons / n. sp. typ* [hw] / Dr. V. Balthasar det [p] // Mus. Nat. Pragae [p] / 26233 [hw] / Inv. [p, orange label] // *convexifrons m.* [hw, green label, black margin]’.

Current status. *Canthidium (Canthidium) convexifrons* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium deplanatum* Balthasar, 1939**

Canthidium deplanatum Balthasar, 1939a: 120.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): ‘Columbia / Pohlke [p, green label] // Typus [p, red label, black margin] // *C. deplanatum / n. sp. typ* [hw] / Dr. V. Balthasar det [p] // Mus. Nat. Pragae [p] / 26235 [hw] / Inv. [p, orange label] // *deplanatum m.* [hw, green label, black margin]’.

Current status. *Canthidium (Eucanthidium) deplanatum* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium elegantulum* Balthasar, 1939**

Canthidium elegantulum Balthasar, 1939a: 121.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): 'Panama [p, green label] // Coll. C. Felsche / Kauf 20. 1918 [p, green label] // Typus [p, red label, black margin] // *Canthidium / elegantulum / n. sp.* [hw] / Dr. V. Balthasar det [p] // Mus. Nat. Pragae [p] / 26232 [hw] / Inv. [p, orange label] // *elegantulum m.* [hw, green label, black margin]'.

Current status. *Canthidium (Canthidium) elegantulum* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium escalerae* Balthasar, 1939**

Canthidium escalerae Balthasar, 1939a: 121.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): 'W. Ecuador / Pucay / F. Ohaus S. [p] // Bucay 300 m / F. ohs. 3. 6. 05 [p] // Typus [p, red label, black margin] // *C. escalerae / n. sp. m.* [hw] / Dr. V. Balthasar det [p] // *escalerae m* [hw, green label, black margin]'.

Current status. *Canthidium (Canthidium) escalerae* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium euchalceum* Balthasar, 1939**

Canthidium euchalceum Balthasar, 1939a: 123.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): 'Guyane franc. / Pariacabo / E. Le Moul't 1905.6 [p] // Typus [p, red label, black margin] // *Canthidium / euchalceum / n. sp.* [hw] / Dr. V. Balthasar det. [p] // *euchalceum m.* [hw, green label, black margin]'.

Current status. *Canthidium (Eucanthidium) euchalceum* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium excisipes* Balthasar, 1939**

Canthidium excisipes Balthasar, 1939a: 123.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (unsexed specimen): 'Minas geraes / Mar d. Espanha / J. Zikan S. [p] // Typus [p, red label, black margin] // *C. excisipes / n. sp.* [hw] / Dr. V. Balthasar det [p] // *excisipes m.* [hw, green label, black margin]'.

Current status. *Canthidium (Canthidium) excisipes* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium flavum* Balthasar, 1939**

Canthidium flavum Balthasar, 1939a: 125.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): 'Loja Ostcordill. / Sabarilla / F. Ohs. 2. 10. 05 // Typus [p, red label, black margin] // *Canthidium / flavum n. sp.* [hw] / Dr. V. Balthasar det [p] // Mus. Nat. Pragae [p] / 26236 [hw] / Inv. [p, orange label] // *flavum m.* [hw, green label, black margin]'.

Current status. Valid species.

***Canthidium funebre* Balthasar, 1939**

Canthidium funebre Balthasar, 1939a: 125.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (unsexed specimen): ‘Suriname - Exped. / Lucia-riv.-Gebiet / VII-VIII. 1926 [p] // Typus [p, red label, black margin] // *C. funebre* / n. sp. m. [hw] / Dr. V. Balthasar det. [p] // funebre m. [hw, green label, black margin]’.

Current status. *Canthidium* (*Eucanthidium*) *funebre* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium gigas* Balthasar, 1939**

Canthidium gigas Balthasar, 1939a: 127.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (unsexed specimen): ‘Cayenne [p, green label] // Coll. C. Felsche / Kauf 20. 1918 [p, green label] // Typus [p, red label, black margin] // *C. gigas* / sp. n. [hw] / Dr. V. Balthasar det. [p] // gigas m. [hw, green label, black margin]’.

Current status. *Canthidium* (*Canthidium*) *gigas* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium histrio* Balthasar, 1939**

Canthidium histrio Balthasar, 1939a: 128.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): ‘Peruvia [p] // Coll. B. / Schwarzer [p] // Senckenberg / Museum [p] // Typus [p, red label, black margin] // *Canthidium* / *histrio* m. [hw] / Dr. V. Balthasar det. [p] // *histrio* m. [hw, green label, black margin]’.

Current status. *Canthidium* (*Canthidium*) *histrio* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium hyla* Balthasar, 1939**

Canthidium hyla Balthasar, 1939a: 129.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): ‘RIO GRANDE DO SUL / BRASILIE [p] // Typus [p, red label, black margin] // *C. hyla* / n. sp. m. [hw] / Dr. V. Balthasar det. [p] // *hyla* m. [hw, green label, black margin]’.

Current status. *Canthidium* (*Canthidium*) *hyla* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium hypocrita* Balthasar, 1939**

Canthidium hypocrita Balthasar, 1939a: 129.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): ‘Merida [p] // Coll. C. Felsche / Kauf 20. 1918 [p, green label] // Typus [p, red label, black margin] // *Canthidium* / *hypocrita* n. sp. [hw] / Dr. V. Balthasar det. [p] // *hypocrita* m. [hw, green label, black margin]’.

Current status. *Canthidium (Canthidium) hypocrita* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium inoptatum* Balthasar, 1939**

Canthidium inoptatum Balthasar, 1939a: 130.

One syntype is deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (♀): 'W. ECUADOR / Huigra / Dr. Davis [p] // Moser determ. [p] / *Canthidium* sp. [hw] // Senckenberg / Museum [p] // Typus [red label, black margin] // *inoptatum* [hw, green label, black margin]'.

Current status. *Canthidium (Canthidium) inoptatum* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium korschefskyi* Balthasar, 1939**

Canthidium korschefskyi Balthasar, 1939a: 131.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): 'Espirito Sto. / Victoria / Ohaus S. [p] // Typus [p, red label, black margin] // *korschefskyi* m. [hw, green label, black margin]'.

Current status. *Canthidium (Eucanthidium) korschefskyi* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium luteum* Balthasar, 1939**

Canthidium luteum Balthasar, 1939a: 132.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): 'Loja Ostcordill. / Sabanilla / F. Ohs. 2. 10. 05 [p] // Typus [p, red label, black margin] // *Canthidium* / *luteum* n. sp. [hw] / Dr. V. Balthasar det. [p] // *luteum* m. [hw, green label, black margin]'.

Current status. *Canthidium (Canthidium) luteum* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium multipunctatum* Balthasar, 1939**

Canthidium multipunctatum Balthasar, 1939a: 133.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (unsexed specimen): 'Paraguay [p, green label] // Coll. C. Felsche / Kauf 20. 1918 [p, green label] // Typus [p, red label, black margin] // *Canthidium* / *multipunctatum* n. sp. [hw] / Dr. V. Balthasar det. [p] // *multipunctatum* m. [hw, green label, black margin]'.

Current status. Valid species.

***Canthidium opacum* Balthasar, 1939**

Canthidium opacum Balthasar, 1939a: 133.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (unsexed specimen): 'S. ECUADOR / Landangui EW [p] // Typus [p, red label, black margin] // *Canthidium* / *opacum* n. sp. [hw] / Dr. V. Balthasar det. [p] // *opacum* m. [hw, green label, black margin]'.

Current status. *Canthidium (Eucanthidium) opacum* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium persplendens* Balthasar, 1939**

Canthidium persplendens Balthasar, 1939a: 134.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): ‘Columbia / Pohlke [p, green label] // Typus [p, red label, black margin] // *C. persplendens* / n. sp. [hw] / Dr. V. Balthasar det [p] // Mus. Nat. Pragae [p] / 26234 [hw] / Inv. [p, orange label] // persplendens m. [hw, green label, black margin]’.

Current status. Valid species.

***Canthidium pinotoides* Balthasar, 1939**

Canthidium pinotoides Balthasar, 1939a: 135.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): ‘San Bernardino / A. Fischer S. G. / V. 1913 [p] // Typus [p, red label] // *Canthidium* / pinotoides m. [hw] / Dr. V. Balthasar det. [p] // pinotoides m. [hw, green label, black margin]’.

Current status. *Canthidium (Canthidium) pinotoides* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium pseudaurifex* Balthasar, 1939**

Canthidium pseudaurifex Balthasar, 1939a: 136.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): ‘Babahoyo / 7. 05 O. v. B. [p] // Typus [p, red label, black margin] // *C. pseudaurifex* n. sp. [hw] / Dr. V. Balthasar det. [p] // pseudaurifex m. [hw, green label, black margin]’.

Current status. Valid species.

***Canthidium seladon* Balthasar, 1939**

Canthidium seladon Balthasar, 1939a: 137.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): ‘ARGENTINA / S. d. Cordoba / J. Hubrich S. [p] // Typus [p, red label, black margin] // *C. seladon* / n. sp. m. [hw] / Dr. V. Balthasar det [p] // seladon m. [hw, green label, black margin]’.

Current status. *Canthidium (Canthidium) seladon* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium titschacki* Balthasar, 1939**

Canthidium titschacki Balthasar, 1939a: 138.

One syntype is deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (♂): ‘Paraguay (Chaco) / X. 1921 / Jos. des Arts leg. / ded. 4. 7. 1928 [p, green label] // typus [p, red label, black margin] // *Canthidium* / titschacki n. sp. [hw] / Dr. V. Balthasar det. [p] // titschacki m. [hw, green label, black margin]’.

Current status. *Canthidium (Canthidium) titschacki* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Canthidium tricolor* Balthasar, 1939**

Canthidium tricolor Balthasar, 1939a: 139.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): ‘Guyane [hw] // Typus [p, red label, black margin] // C. tricolor / n. sp. m. [hw] / Dr. V. Balthasar det. [p] // tricolor m. [hw, green label, black margin]’.

Current status. *Canthidium (Eucanthidium) tricolor* Balthasar, 1939, see MARTÍNEZ & HALFFTER (1986).

***Catharsius (Metacatharsius) clypeolatus* Balthasar, 1940**

Catharsius (Metacatharsius) clypeolatus Balthasar, 1940: 75.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): ‘Stefanini / e / Puccioni [hw] // OBBIA / 1924 [hw] // Typus [p, red label, black margin] // clypeolatus / m. [hw, orange label, black margin]’.

Current status. *Metacatharsius clypeolatus* (Balthasar, 1940), see FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

***Catharsius (Metacatharsius) marani* Balthasar, 1940**

Catharsius (Metacatharsius) marani Balthasar, 1940: 73.

Two syntypes are deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (unsexed specimen): ‘Karibib / S. W. Afr. [p] // Typus [p, red label, black margin] // marani / m. [hw, violet label, black margin]’.

SYNTYPE (unsexed specimen): ‘Okanjande / S. W. Afr. [p] // Typus [p, red label, black margin] // C. marani / n. sp. / Typ! [hw]’.

Current status. *Metacatharsius marani* (Balthasar, 1940), see FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

***Catharsius (Metacatharsius) ovulum* Balthasar, 1940**

Catharsius (Metacatharsius) ovulum Balthasar, 1940: 74.

Two syntypes are deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (♀): ‘Mulange / Br. O. Afr. [p] // Typus [p, red label, black margin] // ovulum / m. [hw, orange label, black margin]’.

SYNTYPE (♀): ‘Mulange / Br. O. Afr. [p] // Typus [p, red label, black margin] // C. ovulum / n. sp. Typ. [hw]’.

Current status. *Metacatharsius ovulum* (Balthasar, 1940), see FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

***Catharsius (Metacatharsius) seminulum* Balthasar, 1940**

Catharsius (Metacatharsius) seminulum Balthasar, 1940: 75.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): ‘Tanganika / ~~D.O.A.~~ [p] // Belg. / Congo [p] // Typus [p, red label, black margin] // seminulum / m. [hw, orange label, black margin]’.

Current status. *Metacatharsius seminulum* (Balthasar, 1940), see FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

***Catharsius simulator* Balthasar, 1939**

Catharsius simulator Balthasar, 1939b: 5.

One syntype is deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (unsexed specimen): 'UGIGI - KIGOMA / L. TANGANJIKI X- / -XI. 1930. CIPRIANI [p] // Typus [p, red label, black margin] // *Catharsius / simulator / m.n.sp.* [hw] / Dr. V. Balthasar det. [p] // *simulator / m.* [hw, violet label, black margin]'.

Current status. *Metacatharsius simulator* (Balthasar, 1939), see BALTHASAR (1965b), FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

***Copris apicepunctatus* Balthasar, 1942**

Copris apicepunctatus Balthasar, 1942a: 190.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): 'China / Prov. Fokien / G. Siemssen / vend. 24.VIII.1906 [p] // Typus [p, red label] // *Copris apicepunctatus / typ.n.sp.* [hw] / Dr. V. Balthasar det. [p]'.

Current status. *Microcopris apicepunctatus* (Balthasar, 1942), see, e.g., LÖBL et al. (2006).

***Copris basipunctatus* Balthasar, 1942**

Copris basipunctatus Balthasar, 1942b: 115.

One syntype is deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (♂): 'Kuatun (2300 m) 27.40n. Br. / 117.40ö. L. J. Klapperich [p] / 24.9. [hw] 1938 (Fukien) [p, violet label] // *Copris / basipuncta- / tus n.sp.* Typus [hw] / Dr. V. Balthasar det. [p] // Typus [p, red label]'.

Current status. *Copris (Sinocopris) basipunctatus* Balthasar, 1942, see OCHI et al. (2009).

***Copris (Paracopris) bihamatus* Balthasar, 1965**

Copris (Paracopris) bihamatus Balthasar, 1965a: 20.

The holotype and two paratypes are deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): 'Capland [hw] // C. (*Paracopris*) / *bihamatus / ♂ n. sp.* Balth. [hw] / Holotypus [p] 63 [hw, orange label]'.

PARATYPES (2 unsexed specimens): 'Capland [hw] // C. (*Paracopris*) / *bihamatus / n.sp.* Balth. / 63 [hw] Paratypus [p, orange label]'.

Current status. *Paracopris bihamatus* (Balthasar, 1965), cf. LÖBL et al. (2006).

***Copris (Paracopris) cipriani* Balthasar, 1939**

Copris (Paracopris) cipriani Balthasar, 1939b: 3.

One syntype is deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (unsexed specimen): 'Monze [p] / Chituni / I 1930 [hw] // Rhodesia / Prof. L. Cipriani [p] // Typus [p, red label, black margin] // *Paracopris / g. n. / cipriani sp. n.* [hw] / Dr. V. Balthasar det. [p] // *cipriani m.* [hw, pink label]'.

Current status. Junior subjective synonym of *Copris (Copris) coriarius* Gillet, 1907, see NGUYEN-PHUNG (1988).

***Copris clavicornis* Matthews & Halffter, 1959**

Copris clavicornis Matthews & Halffter, 1959: 191, Figs. 1–7.

One paratype is deposited in NMPC (ex coll. V. Balthasar):

PARATYPE (♀): ‘15 mi. E / Parral, Chih. Mex. / 5500ft. VII-15-47 [p] // D. Rockefeller / Exp. Cazier [p] // PARATYPE / *Copris* / *clavicornis* M.&H. / Det. E.G. Matthews [p, blue label]’.

Current status. Junior subjective synonym of *Copris* (*Copris*) *moechus* LeConte, 1854, see MATTHEWS (1962).

***Copris frankenbergeri* Balthasar, 1934**

Copris frankenbergeri Balthasar, 1934a: 147.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): ‘Japania / Kosaka / VIII. 28 [hw] // C. frankenber- / geri m. / type! [hw] / Dr. Balthasar det. [p] // Typus [p, red label]’.

Current status. Junior subjective synonym of *Copris* (*Copris*) *acutidens* Motschulsky, 1860, see NAKANE & TSUKAMOTO (1955) and LÖBL et al. (2006).

***Copris* (*Copris*) *frankenbergerianus* Balthasar, 1958**

Copris (s. str.) *frankenbergerianus* Balthasar, 1958: 477.

The holotype and two paratypes (including the allotype) are deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): ‘China [p] // Tatsienlu [p] // *Copris* ♂ / frankenber- / gerianus / n. sp. Balth. [hw] // Holotypus [p, pink label]’.

PARATYPE (♂): ‘Giufu-Shan / Szechuan [p] // *Copris* / frankenber- / gerianus n. sp. Balth. [hw] / Paratypus [p, pink label]’.

PARATYPE (♀): ‘Giufu-Shan / Szechuan [p] // *Copris* ♀ / frankenberge- / rianus n. sp. Balth. [hw] / Allotypus [p, pink label]’.

Current status. Valid species.

***Copris fukiensis* Balthasar, 1952**

Copris fukiensis Balthasar, 1952: 225.

One paratype is deposited in NMPC (ex coll. V. Balthasar):

PARATYPE (♂): ‘Kuatun (2300 m) 27.40n. Br. / 117.40ö. L. J. Klapperich / 8.4. 1938 (Fukien) [p, violet label] // *Copris* / *fukiensis* / ♂ n.sp. [hw] / Dr. V. Balthasar det. [p] // Typus [p, red label]’.

Current status. *Copris* (*Copris*) *fukiensis* Balthasar, 1952, see BALTHASAR (1963b).

***Copris illotus* Balthasar, 1942**

Copris illotus Balthasar, 1942a: 189, Fig. 1.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): ‘Kuatun (2300 m) 27.40n. Br. / 117.40ö. L. J. Klapperich / 11.4. 1938 (Fukien) [p, violet label] // Typus [p, red label] // *Copris illotus* / Typ! n.sp. [hw] / Dr. V. Balthasar det. [p]’.

Current status. *Copris* (*Copris*) *illotus* Balthasar, 1942, see BALTHASAR (1963b).

***Copris kiuchii* Masumoto, 1989**

Copris kiuchii Masumoto, 1989: 87, Figs. 1–2, 7–8.

Two paratypes are deposited in NMPC (ex coll. D. Král):

PARATYPE (unsexed specimen): ‘Doi Angkhang, 1750m / Fang, Chiang Mai / THAILAND / May 23, 1989 / K. MASUMOTO leg. [p] // PARATYPE / Copris / (s. str.) / kiuchii / K. MASUMOTO 1989 [p, pink label]’.

PARATYPE (unsexed specimen): ‘Doi Ankhang, Ampoe / Fang, Chiang Mai / THAILAND / June 19, 1989 / Y. MANIT leg. [p] // PARATYPE / Copris / (s. str.) / kiuchii / K. MASUMOTO 1989 [p, pink label]’.

Current status. *Copris* (*Sinocopris*) *kiuchii* Masumoto, 1989, see OCHI et al. (2009).

***Copris klapperichi* Balthasar, 1942**

Copris klapperichi Balthasar, 1942b: 116.

Four syntypes are deposited in NMPC (ex coll. V. Balthasar):

SYNTYPES (1 ♂ 1 ♀): ‘Kuatun (2300 m) 27.40n. Br. / 117.40ö. L. J. Klapperich / 9.5. 1938 (Fukien) [p, violet label] // Copris / Klapperichi / n.sp. m. [hw] / Dr. V. Balthasar det. [p] // Typus [p, red label]’.

SYNTYPE (♂): ‘Kuatun (2300 m) 27.40n. Br. / 117.40ö. L. J. Klapperich / 12.5. 1938 (Fukien) [p, violet label] // Typus [hw, red label]’.

SYNTYPE (♂): ‘Kuatun (2300 m) 27.40n. Br. / 117.40ö. L. J. Klapperich / 24.4. 1938 (Fukien) [p, violet label] // Copris / Klapperichi / n.sp. Balthasar / ♂ [hw] Paratypus [p, ochreous label]’.

Current status. *Copris* (*Copris*) *klapperichi* Balthasar, 1942, see BALTHASAR (1963b).

***Copris muelleri* Balthasar, 1939**

Copris muelleri Balthasar, 1939d: 42.

Three syntypes are deposited in NMPC (ex coll. V. Balthasar):

SYNTYPES (3 unsexed specimens): ‘Minoos (Osaka) / Jap. / Leg. Y. Yano [p] // Copris / Müllerii n.sp. [hw] / Dr. V. Balthasar det. [p] // Typus [p, red label]’.

Current status. Junior subjective synonym of *Copris* (*Copris*) *acutidens* Motschulsky, 1860, see NAKANE & TSUKAMOTO (1955).

***Copris obenbergeri* Balthasar, 1933**

Copris obenbergeri Balthasar, 1933a: 263.

The holotype and five paratypes are deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): ‘Nitou Tatsienlu / Szechuan China / Em. Reitter [p] // Copris / obenbergeri / n.sp. Balth. [hw] / Holotypus [p, pink label]’.

PARATYPES (1 ♂ 2 ♀♀): ‘Tatsien-lu. / Grenze Thibet Ost / Em. Reitter [p] // Typus [hw, red label, avers of the label] / obenbergeri m. [hw, revers of the label]’.

PARATYPE (♀): ‘Nitou Tatsienlu / Szechuan China / Em. Reitter [p]’.

PARATYPE (♀): ‘Tatsien-lu. / Grenze Thibet Ost / Em. Reitter [p]’.

Current status. *Copris* (*Copris*) *obenbergeri* Balthasar, 1933, see BALTHASAR (1963b).

***Copris* (*Copris*) *overlaeti* Balthasar, 1961**

Copris (s. str.) *overlaeti* Balthasar, 1961: 98, Fig. 2.

Five paratypes are deposited in NMPC (ex coll. V. Balthasar):

PARATYPE (♂): ‘COLL.: MUS. CONGO / Lulua: Muteba [p] / I - [hw] 193 [p] 2 [hw] / G.F. Overlaet [p] // Copris / overlaeti n.sp. / ♂ Balth. 60 [hw] / Paratypus [p, pink label]’.

PARATYPE (♂): 'COLL.: MUS. CONGO / Lulua: Kapanga / III - 1933 / G.F. Overlaet [p] // Copris / overlaeti n.sp. / ♂ Balth. 60 [hw] / Paratypus [p, pink label]'.

PARATYPE (♂): 'COLL.: MUS. CONGO / Lulua: Kapanga [p] / I - [hw] 1934 / G.F. Overlaet [p] // Copris / overlaeti n.sp. / ♂ Balth. 60 [hw] / Paratypus [p, pink label]'.

PARATYPE (♂): 'COLL.: MUS. CONGO / Lulua: Kapanga / I - 1933 / G.F. Overlaet [p] // Copris / overlaeti n.sp. [hw] / Dr. V. Balthasar / det. [p] 60 [hw]'.

PARATYPE (♀): 'COLL.: MUS. CONGO / Lulua: Kapanga [p] / I - [hw] 1934 / G.F. Overlaet [p] // Copris / overlaeti n.sp. / ♀ Balth. 60 [hw] / Paratypus [p, pink label]'.

Current status. *Copris (Copris) orion overlaeti* Balthasar, 1961, see NGUYEN-PHUNG (1989).

Copris (Copris) pseudosinicus Balthasar, 1958

Copris (s. str.) *pseudosinicus* Balthasar, 1958: 475.

The holotype and one paratype are deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): 'Škrland / Čína [hw] // Copris ♂ / pseudosinicus / n.sp. Balth. [hw] / Holotypus [p, ochreous label]'.

PARATYPE (♀): 'Škrland / Čína [hw] // Copris ♀ / pseudosinicus / n.sp. Balth. [hw] / Allotypus [p, ochreous label]'.

Current status. Valid species.

Copris (Litocopris) ruandanus Balthasar, 1961

Copris (Litocopris) ruandanus Balthasar, 1961: 99, Fig. 3.

One paratype is deposited in NMPC (ex coll. V. Balthasar):

PARATYPE (unsexed specimen): 'I.R.S.A.C. - Mus. Congo / Ruanda: Astrida / 16/22-X-1952 / Dr. R. Laurent [p] // Copris (Litoco- / pris) ruanda- / nus n.sp. / Balth. [hw] / Paratypus [p, orange label]'.

Current status. *Litocopris ruandanus* (Balthasar, 1961), cf. DAVIS et al. (2008).

Copris ruricola Balthasar, 1933

Copris ruricola Balthasar, 1933a: 266.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): 'Nitou Tatsienlu / Szechuan China / Em. Reitter [p] // Typus [hw, red label] // C. ruricola [hw] / Det. Dr. Balthasar [p] / Typus! [hw]'.

Current status. *Copris (Copris) ruricola* Balthasar, 1933, see BALTHASAR (1963b).

Remark. BALTHASAR (1933a) reported this specimen as a female. Nevertheless, subsequent dissection of it proved to be a male.

Copris (Paracopris) similis Balthasar, 1939

Copris (Paracopris) similis Balthasar, 1939b: 4.

One syntype is deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (unsexed specimen): 'Monze [p] / Chituni / I 1930 [hw] // Rhodesia / Prof. L. Cipriani [p] // Typus [p, red label, black margin] // Paracopris / similis n. sp. [hw] / Dr. V. Balthasar det. [p] // similis m. [hw, pink label]'.

Current status. Junior subjective synonym of *Copris (Copris) mesacanthus mesacanthus* Harold, 1878, see NGUYEN-PHUNG (1988).

***Copris sorex* Balthasar, 1942**

Copris sorex Balthasar, 1942b: 117.

Two syntypes are deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (♂): 'Kuatun (2300 m) 27.40n. Br. / 117.40ö. L. J. Klapperich / 4.3. 1938 (Fukien) [p, violet label] // Typus [p, red label] // *Copris / sorex* n.sp. [hw] / Dr. V. Balthasar det. [p]'.

SYNTYPE (♀): 'Kuatun (2300 m) 27.40n. Br. / 117.40ö. L. J. Klapperich / 3.3. 1938 (Fukien) [p, violet label] // Typus [p, red label] // *Copris / sorex* n.sp. [hw] / Dr. V. Balthasar det. [p]'.

Current status. *Copris (Copris) sorex* Balthasar, 1942, see BALTHASAR (1963b).

***Copris (Copris) subdolos* Balthasar, 1958**

Copris (s. str.) *subdolos* Balthasar, 1958: 476.

The holotype and two paratypes (including the allotype) are deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): 'Kuatun (2300 m) 27.40n. Br. / 117.40ö. L. J. Klapperich / 24.4. 1938 (Fukien) [p, violet label] // *Copris / subdolos / n.sp.* Balth. [hw] / Holotypus [p, ochreous label]'.

PARATYPE (♂): 'Kuatun (2300 m) 27.40n. Br. / 117.40ö. L. J. Klapperich / 24.4. 1938 (Fukien) [p, violet label] // *Copris / subdolos / n.sp.* Balth. [hw] / Paratypus [p, ochreous label]'.

PARATYPE (♀): 'Kuatun (2300 m) 27.40n. Br. / 117.40ö. L. J. Klapperich / 13.5. 1938 (Fukien) [p, violet label] // *Copris / subdolos / n.sp.* Balth. [hw] / Allotypus [p, ochreous label]'.

Current status. Valid species.

***Copris (Copris) szechouanicus* Balthasar, 1958**

Copris (s. str.) *szechouanicus* Balthasar, 1958: 479.

The holotype and nine paratypes (including the allotype) are deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): 'KUATUN, FUKIEN / China, 15. 6. 46 / leg. Tschung - Sen [p] // *Copris / szechouanicus / n.sp.* Balth. [hw] / Holotypus [p, orange label]'.

PARATYPE (♀): 'KUATUN, FUKIEN / China, 15. 6. 46 / leg. Tschung - Sen [p] // *Copris / szechouanicus / n.sp.* Balth. [hw] / Paratypus [p, orange label]'.

PARATYPE (♀): 'Giufu Shan / Szechouan 1500- / 2000m, Reitter E. [p] // *Copris / szechouanicus / n.sp.* Balth. [hw] / Allotypus [p, orange label]'.

PARATYPE (♂): 'Nördl. Szechuan / China Kwahnsien / Em. Reitter [p] // *Copris / szechouanicus / n.sp.* Balth. [hw] / Paratypus [p, orange label]'.

PARATYPES (2 ♂♂): 'Kwangtseh-Fukien / J. Klapperich / 8.10. 1937 [p, violet label] // *Copris / szechouanicus / n.sp.* Balth. [hw] / Paratypus [p, orange label]'.

PARATYPE (♀): 'Tatsienlu, Tsendsé / Szechuan China [p] // *Copris / szechouanicus / n.sp.* Balth. [hw] / Paratypus [p, orange label]'.

PARATYPE (♂): 'Tatsienlu / Yüling Süd / Szechuan China [p] // *Copris / szechouanicus / n.sp.* Balth. [hw] / Paratypus [p, orange label]'.

PARATYPE (♂): 'Kuatun (2300 m) 27.40n. Br. / 117.40ö. L. J. Klapperich / 1.5. 1938 (Fukien) [p, violet label] // *Copris / szechouanicus / n.sp.* Balth. [hw] / Paratypus [p, orange label]'.

PARATYPE (♂): 'Kuatun (2300 m) 27.40n. Br. / 117.40ö. L. J. Klapperich / 15.5. 1938 (Fukien) [p, violet label] // *Copris / szechouanicus / n.sp.* Balth. [hw] / Paratypus [p, orange label]'.

Current status. Valid species.

***Copris yamamotoi* Tesař, 1937**

Copris Yamamotoi Tesař, 1937: 101.

Two syntypes are deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (♂): 'Iwate 1935 / Japan / H. Yamamoto [p] // *Copris* / *yamamotoi* ♂ / m. n. [hw] Det. Tesař [p] // Typus [p, red label]'.

SYNTYPE (♀): 'Matuo, Iwateken / Japan / Coll. Tesař [p] // *Copris* / ♀ *yamamotoi* / m. n. [hw] Det. Tesař [p] // Typus [p, red label]'.

Current status. Junior subjective synonym of *Copris* (*Sinocopris*) *pecuarius* Lewis, 1884, see NAKANE & TSUKAMOTO (1955) and OCHI et al. (2009).

Remark. Although the species-group name is spelled as '*yamamotoi*' on Tesař's identification label, it was published under the species-group name '*yamamotoi*'.

***Copris (Copris) youngai* Balthasar, 1967**

Copris (s. str.) *youngai* Balthasar, 1967: 49.

Two paratypes are deposited in NMPC (ex coll. V. Balthasar):

PARATYPES (1 ♂ 1 ♀): 'Soil-Zoological Exp. / Congo-Brazzaville / Lefinie reservation / bungalow near Mpo [p] // 7.1.1964 No. 603 / by lamplight / leg. Endrödy-Younga [p] // *Copris* / *youngai* n.sp. / Balthasar / 66 [hw] / Paratypus [p, orange label]'.

Current status. *Copris (Copris) youngai* Balthasar, 1967, see FERREIRA (1972).

***Ontherus (Ontherus) androgynus* Génier, 1996**

Ontherus (Ontherus) androgynus Génier, 1996: 124, Figs. 13, 238–240, 308.

Two paratypes are deposited in NMPC (ex coll. V. Balthasar):

PARATYPE (♂): 'Brazilie [hw] // collectie / A. J. Buis [p] // aphodioides Burm. [hw, green label, black margin] // PARATYPE / *Ontherus* / *androgynus* / F. Génier, 1992 [p, yellow label]'.

PARATYPE (♂): 'Hansa Humboldt / Sta. Catharina / Brasilien, Reitter [p] // PARATYPE / *Ontherus* / *androgynus* / F. Génier, 1992 [p, yellow label]'.

Current status. Valid species.

***Ontherus (Caelontherus) diabolicus* Génier, 1996**

Ontherus (Caelontherus) diabolicus Génier, 1996: 48, Figs. 35–36, 136–138, 274.

Three paratypes are deposited in NMPC (ex coll. V. Balthasar):

PARATYPE (♂): 'ECUADOR / Sabanilla / F. Ohaus S. [p] // *Ontherus* / *incisus* Kirsch / Luederv. Det. 29 [hw] // *incisus* Kirsch [hw, green label] // PARATYPE / *Ontherus* / *diabolicus* / F. Génier, 1992 [p, yellow label]'.

PARATYPE (♀): 'Loja Ostcordill. / Sabanilla / F. Ohs. 29. 9. 05 [p] // PARATYPE / *Ontherus* / *diabolicus* / F. Génier, 1992 [p, yellow label]'.

PARATYPE (♀): 'Jarugui / Ecuador [p] // PARATYPE / *Ontherus* / *diabolicus* / F. Génier, 1992 [p, yellow label]'.

Current status. Valid species.

***Ontherus (Ontherus) edentulus* Génier, 1996**

Ontherus (Ontherus) edentulus Génier, 1996: 102, Figs. 82, 208–210, 298.

One paratype is deposited in NMPC (ex coll. V. Balthasar):

PARATYPE (♂): ‘Peru [hw] // zikani Luedrv. [hw, green label, black margin] // PARATYPE / *Ontherus / edentulus* / F. Génier, 1992 [p, yellow label]’.

Current status. Valid species.

***Ontherus irinus* Balthasar, 1938**

Ontherus irinus Balthasar, 1938a: 222.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): ‘Theophilo Ottoni / Minas Geraes [p, green label] // Typus [p, red label, black margin] // *Ontherus / irinus* n. sp. [hw] / Dr. V. Balthasar det. [p] // Mus. Nat. Pragae [p] / 65457 [hw] / Inv. [p, orange label] // *irinus* m. [hw, green label, black margin] // HOLOTYPE / *Ontherus / irinus* / Balthasar, 1938 / vidit. F. Génier, 1991 [p, red label]’.

Current status. *Ontherus (Ontherus) irinus* Balthasar, 1938, see GÉNIER (1996).

***Ontherus laminifer* Balthasar, 1938**

Ontherus laminifer Balthasar, 1938a: 221.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): ‘Amazonas / Manaus [p, green label] // Coll. C. Felsche / Kauf 20. 1918 [p, green label] // Typus [p, red label, black margin] // *Ontherus / laminifer* / n. sp. [hw] / Dr. V. Balthasar det. [p] // *laminifer* m. [hw, green label, black margin] // Mus. Nat. Pragae [p] / 64458 [hw] / Inv. [p, orange label] // HOLOTYPE / *Ontherus / laminifer* / Balthasar, 1938 / F. Génier, 1991 [p, red label]’.

Current status. *Ontherus (Caelontherus) laminifer* Balthasar, 1938, see GÉNIER (1996).

***Ontherus (Ontherus) lobifrons* Génier, 1996**

Ontherus (Ontherus) lobifrons Génier, 1996: 112, Figs. 8–9, 87, 223–225, 303.

The holotype and two paratypes (including the allotype) are deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): ‘Amlér / I - 1926 [hw] // HOLOTYPE / *Ontherus / lobifrons* / F. Génier, 1992 [p, red label]’.

PARATYPE (♀): ‘Amlér / XII - 1925 [hw] // ALLOTYPE / *Ontherus / lobifrons* / F. Génier, 1992 [p, red label]’.

PARATYPE (♂): ‘Brasília / merid. [hw] // PARATYPE / *Ontherus / lobifrons* / F. Génier, 1992 [p, yellow label] // *cephalotes* Har. [hw, green label, black margin]’.

Current status. Valid species.

***Ontherus (Caelontherus) lunicollis* Génier, 1996**

Ontherus (Caelontherus) lunicollis Génier, 1996: 59, Figs. 47–48, 154–156, 280.

Twenty one paratypes are deposited in NMPC (ex coll. V. Balthasar):

PARATYPE (♂): ‘Brasil / Claus [unreadable, hw, green label] // Coll. / v. Schönfeldt [p] // Senckenberg / Mus. [p] // PARATYPE / *Ontherus / lunicollis* / F. Génier, 1992 [p, yellow label]’.

PARATYPE (♀): ‘Pichinde / Colombia / xii. 94, 5000 ft. / W. Rosenberg [p] // PARATYPE / *Ontherus / lunicollis* / F. Génier, 1992 [p, yellow label]’.

PARATYPE (♂): 'Bogotá / Columbien / P. Ringier Halle [p] // PARATYPE / *Ontherus / lunicollis* / F. Génier, 1992 [p, yellow label]'.

PARATYPES (2 ♀♀): 'Guyabal [hw] // PARATYPE / *Ontherus / lunicollis* / F. Génier, 1992 [p, yellow label]'.

PARATYPES (3 ♀♀): 'S Antonio / Columbia [p] // PARATYPE / *Ontherus / lunicollis* / F. Génier, 1992 [p, yellow label]'.

PARATYPES (2 ♂♂): 'Villa Elvira / Cauca [p] // PARATYPE / *Ontherus / lunicollis* / F. Génier, 1992 [p, yellow label]'.

PARATYPES (2 ♂♂ 2 ♀♀): 'Manizales / A.M. Patino [p] // Sig. R. Oberthür / (Coll. Lefebvre) / Eing. Nr. 4, 1956 [p] // PARATYPE / *Ontherus / lunicollis* / F. Génier, 1992 [p, yellow label]'.

PARATYPES (3 ♂♂ 1 ♀): 'Cauca / Columb. [p] // PARATYPE / *Ontherus / lunicollis* / F. Génier, 1992 [p, yellow label]'.

PARATYPES (3 ♀♀): 'Muzo / Columbia [p] // PARATYPE / *Ontherus / lunicollis* / F. Génier, 1992 [p, yellow label]'.

Current status. Valid species.

Ontherus (Caelontherus) monilistriatus Génier, 1996

Ontherus (Caelontherus) monilistriatus Génier, 1996: 62, Figs. 49–50, 157–159, 281.

One paratype (allotype) is deposited in NMPC (ex coll. V. Balthasar):

PARATYPE (♀): 'Coroico / Bolivia [p] // ALLOTYPE / *Ontherus / monilistriatus* / F. Génier, 1992 [p, red label]'.

Current status. Valid species.

Ontherus (Caelontherus) pseudodidymus Génier, 1996

Ontherus (Caelontherus) pseudodidymus Génier, 1996: 63, Figs. 51–55, 160–162, 282.

One paratype is deposited in NMPC (ex coll. V. Balthasar):

PARATYPE (♂): 'Turrialba / Costarica [p] // PARATYPE / *Ontherus / pseudodidymus* / F. Génier, 1992 [p, yellow label]'.

Current status. Valid species.

Ontherus (Ontherus) pubens Génier, 1996

Ontherus (Ontherus) pubens Génier, 1996: 71, Figs. 73, 166–168, 284.

Twenty-one paratypes are deposited in NMPC (ex coll. V. Balthasar):

PARATYPES (5 ♂♂ 8 ♀♀): 'Apure [hw] // Sig. R. Oberthür / Eing. Nr. 4, 1956 [p] // PARATYPE / *Ontherus / pubens* / F. Génier, 1993 [p, yellow label]'.

PARATYPES (1 ♂ 2 ♀♀): 'Colombia [p] / Sarare [hw] // Sig. R. Oberthür / Eing. Nr. 4, 1956 [p] // PARATYPE / *Ontherus / pubens* / F. Génier, 1993 [p, yellow label]'.

PARATYPE (♀): 'Archidona / (Ecuad.) / R. Haensch S. [p] // PARATYPE / *Ontherus / pubens* / F. Génier, 1993 [p, yellow label]'.

PARATYPE (♂): 'Ecuador / Baron [p] // PARATYPE / *Ontherus / pubens* / F. Génier, 1993 [p, yellow label]'.

PARATYPE (♀): 'Coca / (Ecuad.) / R. Haensch S. [p] // PARATYPE / *Ontherus / pubens* / F. Génier, 1993 [p, yellow label]'.

PARATYPE (♀): 'Chanchamayo / Peru [p] // PARATYPE / *Ontherus / pubens* / F. Génier, 1993 [p, yellow label]'.

PARATYPE (unsexed specimen): 'Loja Ostcordill. / Zamora / Arsen. 26. 9. 05 [p] // PARATYPE / *Ontherus / pubens* / F. Génier, 1993 [p, yellow label]'.

Current status. Valid species.

***Ontherus (Ontherus) stridulator* Génier, 1996**

Ontherus (Ontherus) stridulator Génier, 1996: 133, Figs. 253–255, 313.

One paratype is deposited in NMPC (ex coll. V. Balthasar):

PARATYPE (♂): ‘Brasilien [hw] // Sig. R. Oberthür / (Coll. Thorey) / Eing. Nr. 4, 1956 [p] // PARATYPE / *Ontherus* [p] / *stridulator* [hw] / F. Génier, 1992 [p, yellow label]’.

Current status. Valid species.

***Ontherus trituberculatus* Balthasar, 1938**

Ontherus trituberculatus Balthasar, 1938a: 220.

Two paralectotypes are deposited in NMPC (ex coll. V. Balthasar):

PARALECTOTYPE (unsexed specimen): ‘Cachabé / low c., XII. 96 / (Rosenberg) [p, green label] // Coll. C. Felsche / Kauf 20. 1918 [p, green label] // Typus [p, red label, black margin] // *Ontherus* / 3-tuberculatus / n. sp. typus [hw] / Dr. V. Balthasar det. [p] // 3-tuberculatus m. [hw, green label, black margin] // Mus. Nat. Pragae [p] / 65459 [hw] / Inv. [p, orange label] // PARALECTOTYPE / *Ontherus* / *trituberculatus* / Balthasar, 1938 / Dés. F. Génier, 1991 [p, red label]’.

PARALECTOTYPE (unsexed specimen): ‘Cachabé / low c., XII. 96 / (Rosenberg) [p, green label] // Coll. C. Felsche / Kauf 20. 1918 [p, green label] // Typus [p, red label, black margin] // *Ontherus* / 3-tuberculatus / n. sp. typus [hw] / Dr. V. Balthasar det. [p] // Mus. Nat. Pragae [p] / 65460 [hw] / Inv. [p, orange label] // PARALECTOTYPE / *Ontherus* / *trituberculatus* / Balthasar, 1938 / Dés. F. Génier, 1991 [p, red label]’.

Current status. *Ontherus (Caelontherus) trituberculatus* Balthasar, 1938, see GÉNIER (1996).

Remark. The designation of lectotype and paralectotypes was published by GÉNIER (1996).

***Ontherus (Ontherus) ulcopygus* Génier, 1996**

Ontherus (Ontherus) ulcopygus Génier, 1996: 82, Figs. 2–3, 175–177, 287.

Two paratypes are deposited in NMPC (ex coll. V. Balthasar):

PARATYPE (♀): ‘Peru [hw] // Coll. B. / Schwarzer [p] // Senckenberg / Museum [p] // PARATYPE / *Ontherus* / *ulcopygus* / F. Génier, 1992 [p, yellow label]’.

PARATYPE (♀): ‘Süd- / Brasil [p] // PARATYPE / *Ontherus* / *ulcopygus* / F. Génier, 1992 [p, yellow label]’.

Current status. Valid species.

***Pinotus acuticornis* Luederwaldt, 1930**

Pinotus acuticornis Luederwaldt, 1930: 120.

One syntype is deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (♂): ‘R. d. Janeiro / N. Friburgo / F. Ohaus [p] // Luederw. Determ. [p] / *Pinotus* / *acuticornis* / Cotype Lüderw. [hw] // Senckenberg / Museum [p]’.

Current status. *Dichotomius (Selenocopriss) acuticornis* (Luederwaldt, 1930), see MARTÍNEZ (1951).

***Pinotus (Selenocopris) horvathi* Balthasar, 1970**

Pinotus (Selenocopris) horvathi Balthasar, 1970: 245.

Four paratypes are deposited in NMPC (ex coll. V. Balthasar):

PARATYPES (2 ♂♂): ‘Pernambuco / leg. Horváth [p] // *Pinotus (Selenocopris) horvathi* n.sp. / ♂ Balthasar [hw] / Paratypus [p] 67 [hw, orange label]’.

PARATYPES (2 ♀♀): ‘Pernambuco / leg. Horváth [p] // *Pinotus (Selenocopris) horvathi* n.sp. / ♀ Balthasar [hw] / Paratypus [p] 67 [hw, orange label]’.

Current status. *Dichotomius (Selenocopris) horvathi* (Balthasar, 1970), cf. MARTÍNEZ (1951).

***Synopsis horaki* Zidek & Pokorný, 2010**

Synopsis horaki Zidek & Pokorný, 2010: 8, Figs. 12–15.

The holotype is deposited in NMPC (ex coll. D. Král):

HOLOTYPE (♂): ‘6.-10.5. 1990 TAM DAO / VINH PHU Distr. / N VIETNAM, 900m / JAN HORÁK leg. [p] // HOLOTYPE ♂ / *Synopsis horaki* / Zidek & Pokorný 2010 [p, red label]’.

Current status. Valid species.

***Synopsis naxiorum* Král & Rejsek, 2000**

Synopsis naxiorum Král & Rejsek, 2000: 268, Fig. 1.

The holotype and seven paratypes (including the allotype) are deposited in NMPC (ex coll. D. Král):

HOLOTYPE (♂): ‘YUNNAN cca. 2000m / 27.15N 100.09E / HUTIAO gorge / Jinsha r. 18-22/7. / David Král leg. 92 [p] // *Synopsis / naxiorum* sp. n. ♂ / HOLOTYPUS / David Král & Jiří Rejsek det. 1996 [p, red label]’.

PARATYPE (♀): ‘YUNNAN cca. 2000m / 27.15N 100.09E / HUTIAO gorge / Jinsha r. 18-22/7. / David Král leg. 92 [p] // *Synopsis / naxiorum* sp. n. ♀ / ALLOTYPUS / David Král & Jiří Rejsek det. 1996 [p, red label]’.

PARATYPES (2 ♂♂): ‘YUNNAN cca. 2000m / 27.15N 100.09E / HUTIAO gorge / Jinsha r. 18-22/7. / David Král leg. 92 [p] // *Synopsis / naxiorum* sp. n. ♂ / PARATYPUS No. / David Král & Jiří Rejsek det. 1996 [p, red label]’.

PARATYPES (3 ♀♀): ‘YUNNAN cca. 2000m / 27.15N 100.09E / HUTIAO gorge / Jinsha r. 18-22/7. / David Král leg. 92 [p] // *Synopsis / naxiorum* sp. n. ♀ / PARATYPUS No. / David Král & Jiří Rejsek det. 1996 [p, red label]’.

PARATYPE (♀): ‘China N-YUNNAN / 27°18’N 100°13’E / Jinsha r. vall. 1900 m / DAJU, HUTIAO gorge / lgt. D. Král 16-17/7° 90 [p] // *Synopsis / naxiorum* sp. n. ♀ / PARATYPUS No. 10 / David Král & Jiří Rejsek det. 1996 [p, red label]’.

Current status. Valid species.

***Synopsis strnadi* Král, 2002**

Synopsis strnadi Král, 2002: 283, Figs. 1, 4, 7.

The holotype is deposited in NMPC (ex coll. D. Král):

HOLOTYPE (♀): ‘VIETNAM N. / Tam Dao - 900 m / 16.-23. V. 1991 / Strnad Jan lgt. [p] // *Synopsis / strnadi* sp. n. ♀ / HOLOTYPUS / David Král det. 2002 [p, red label]’.

Current status. Valid species.

Subfamily Scarabaeinae: Eurysternini

Eurysternus cyanescens Balthasar, 1939

Eurysternus cyanescens Balthasar, 1939c: 112.

Three paralectotypes are deposited in NMPC (ex coll. V. Balthasar):

PARALECTOTYPE (♂): 'PARA- / LECTO- / TYPE [p, rounded label, blue margin] // R. de JANEIRO / Petropolis / F. Ohaus S. [p] // Senckenberg / Museum [p] // Mus. Nat. Pragae / Inv. [p] 26345 [hw, orange label] // WORLD / SCARAB. / DATABASE / WSD0002550 [p] // TYPUS [p, red label] // cyanescens m. [hw, green label] // Eurysternus / cyanescens / n.sp. [hw] / Dr. V. Balthasar det. [p] // Eurysternus cyanescens Balth. / PARALECTOTYPE [hw] / det. L. Jessop 1984 [p] // Eurysternus ♂ / cyanescens / Balthasar, 1939 / vid. F. Génier, 1999 [p]'.

PARALECTOTYPE (♀): 'PARA- / LECTO- / TYPE [p, rounded label, blue margin] // Brasilia / Beske [hw] // Coll. V. Schönfeldt [p] // Mus. Nat. Pragae / Inv. [p] 26346 [hw, orange label] // WORLD / SCARAB. / DATABASE / WSD0002549 [p] // TYPUS [p, red label] // Eurysternus / cyanescens / n.sp. [hw] / Dr. V. Balthasar det. [p] // Eurysternus cyanescens Balth. / PARALECTOTYPE [hw] / det. L. Jessop 1984 [p] // Eurysternus ♀ / cyanescens / Balthasar, 1939 / vid. F. Génier, 1999 [p]'.

PARALECTOTYPE (unsexed specimen): 'Espirito Sto. / Timbuby / L. Ohaus S. [p] // Senckenberg / museum [p] // Eurysternus / cyanescens / n. sp. Balth. [hw] / paratypus [p, orange label] // Eurysternus cyanescens / Balthasar, 1939 / Paralectotypus / det. A. Bezděk & J. Hájek, 2011 [p, red label]'.

Current status. Valid species.

Remark. BALTHASAR (1939c) described this species from an unknown number of specimens. JESSOP (1985) designated a lectotype and two paralectotypes from the syntype series deposited in Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt am Main, Germany and in NMPC. Because there is no doubt about the authenticity of the specimen from 'Espirito Sto.' housed in NMPC, we have labelled it as an additional paralectotype.

Eurysternus hamaticollis Balthasar, 1939

Eurysternus hamaticollis Balthasar, 1939c: 113.

Two paralectotypes are deposited in NMPC (ex coll. V. Balthasar):

PARALECTOTYPE (♂): 'PARA- / LECTO- / TYPE [p, rounded label, blue margin] // Péba [hw] // Typus! [hw, red label] // WORLD / SCARAB. / DATABASE / WSD0002555 [p] // Mus. Nat. Pragae / Inv. [p] 26343 [hw, orange label] // hamaticollis m. [hw, green label] // Eurysternus / hamaticollis / n.sp. [hw] / Dr. V. Balthasar det. [p] // Eurysternus / hamaticollis Balth. / PARALECTOTYPE [hw] / det. L. Jessop 1984 [p] // Eurysternus ♂ / hamaticollis / Balthasar, 1939 / dét. F. Génier, 2007 [p]'.

PARALECTOTYPE (♂): 'PARA- / LECTO- / TYPE [p, rounded label, blue margin] // Bolivia 450 m / Dept. S. Cruz / Umg. Buenavista / Steinbach coll. [p] // WORLD / SCARAB. / DATABASE / WSD0002556 [p] // Mus. Nat. Pragae / Inv. [p] 26344 [hw, orange label] // Typus! [hw, red label] // Eurysternus / hamaticollis / n.sp. [hw] / Dr. V. Balthasar det. [p] // Eurysternus / hamaticollis Balth. / PARALECTOTYPE [hw] / det. L. Jessop 1984 [p] // Eurysternus ♂ / hamaticollis / Balthasar, 1939 / dét. F. Génier, 2007 [p]'.

Current status. Valid species.

Remark. The designation of lectotype and paralectotypes was published by JESSOP (1985).

Eurysternus hypocrita Balthasar, 1939

Eurysternus hypocrita Balthasar, 1939c: 114.

Three paralectotypes are deposited in NMPC (ex coll. V. Balthasar):

PARALECTOTYPE (♂): 'PARA- / LECTO- / TYPE [p, rounded label, blue margin] // Surinam [p] // Typus! [hw, red label] // Eurysternus / hypocrita / n.sp. [hw] // Dr. V. Balthasar det. [p] // Mus. Nat. Pragae / Inv. [p] 26339

[hw, orange label] // WORLD / SCARAB. / DATABASE / WSD0002551 [p] // Eurysternus / hypocrita Balth. / PARALECTOTYPE [hw] / det. L. Jessop 1984 [p] // Eurysternus ♂ / hypocrita / Balthasar, 1939 / vid. F. Génier, 2008 [p]’.

PARALECTOTYPE (♀): ‘PARA- / LECTO- / TYPE [p, rounded label, blue margin] // Guyana [hw] // Boucomont det. 1927 [p] // Eurysternus / calligrammus Dal. [hw] // Typus! [hw, red label] // Mus. Nat. Pragae / Inv. [p] 26337 [hw, orange label] // WORLD / SCARAB. / DATABASE / WSD0002552 [p] // hypocrita m. [hw, green label] // Eurysternus / hypocrita / n.sp. [hw] Dr. V. Balthasar det. [p] // Eurysternus / hypocrita Balth. / PARALECTOTYPE [hw] / det. L. Jessop 1984 [p] // Eurysternus ♀ / hypocrita / Balthasar, 1939 / vid. F. Génier, 2008 [p]’.

PARALECTOTYPE (unsexed specimen): ‘Guyana [hw] // Typus! [hw, red label] // Mus. Nat. Pragae / Inv. [p] 26340 [hw, orange label] // Eurysternus / hypocrita / n.sp. [hw] / Dr. V. Balthasar det. [p] // Eurysternus hypocrita / Balthasar, 1939 / Paralectotypus / det. A. Bezděk & J. Hájek, 2011 [p, red label]’.

Current status. Valid species.

Remark. BALTHASAR (1939c) described this species from an unknown number of specimens. JESSOP (1985) designated a lectotype and two paralectotypes from the syntype series deposited in Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt am Main, Germany and in NMPC. Because there is no doubt about the authenticity of the specimen from ‘Guyana’ housed in NMPC, we have labelled it as an additional paralectotype. JESSOP (1985) synonymized *E. hypocrita* with *E. velutinus* Bates, 1887, but later on, GÉNIER (2009) raised it back as a valid species.

Eurysternus sulcifer Balthasar, 1939

Eurysternus sulcifer Balthasar, 1939c: 115.

The lectotype and one paralectotype are deposited in NMPC (ex coll. V. Balthasar):

LECTOTYPE (♂): ‘LECTO- / TYPE [p, rounded label, violet margin] // Sao Paulo / H. Schulz. [p] // Coll. B. / Schwarzer [p] // Senckenberg / Museum [p] // TYPUS [p, red label] // Eurysternum / sulcifer / n.sp. [hw] // Dr. V. Balthasar det. [p] // Mus. Nat. Pragae / Inv. [p] 26342 [hw, orange label] // WORLD / SCARAB. / DATABASE / WSD0002553 [p] // Eurysternus / sulcifer Balth. / LECTOTYPE [hw] / det. L. Jessop 1984 [p] // Eurysternus ♂ / sulcifer / Balthasar, 1939 / vid. F. Génier, 2004 [p]’.

PARALECTOTYPE (♂): ‘PARA- / LECTO- / TYPE [p, rounded label, blue margin] // Blumenan [hw] // Typus! [hw, red label] // Eurysternum / sulcifer n.sp. [hw] // Dr. V. Balthasar det. [p] // Mus. Nat. Pragae / Inv. [p] 26341 [hw, orange label] // WORLD / SCARAB. / DATABASE / WSD0002554 [p] // Eurysternus / sulcifer Balth. / PARALECTOTYPE [hw] / det. L. Jessop 1984 [p] // sulcifer m. [hw, green label] // Eurysternus ♂ / sulcifer / Balthasar, 1939 / vid. F. Génier, 2004 [p]’.

Current status. Valid species.

Remark. The designation of lectotype and paralectotypes was published by JESSOP (1985).

Subfamily Scarabaeinae: Gymnopleurini

Gymnopleurus (Garreta) basilewskyi Balthasar, 1961

Gymnopleurus (Garreta) basilewskyi Balthasar, 1961: 96, Fig. 1.

One paratype is deposited in NMPC (ex coll. V. Balthasar):

PARATYPE (♀): ‘COLL. MUS. CONGO / Lulua: Kapanga / XII. 1932 / F.G. Overlaet [p] // Gymnopleurus / (Garreta) / basilewskyi / n.sp. Balth. / ♀ [hw] Paratypus [p, pink label]’.

Current status. *Garreta basilewskyi* (Balthasar, 1961), cf. JANSSENS (1940) and DAVIS et al. (2008).

***Gymnopleurus caliginosus* Balthasar, 1934**

Gymnopleurus caliginosus Balthasar, 1934a: 148.

The lectotype is deposited in NMPC (ex coll. V. Balthasar):

LECTOTYPE (unsexed specimen): ‘Pal. Josa-fata Tal [hw] / coll. Schmitz 1911 [hw] / Dr. Balthasar [p] // Typus [p, red label, black margin] // *G. caliginosus* / Typ. m. [hw] / Dr. Balthasar det. [p] // *Gymnopleurus* / *caliginosus* / Balthasar 1934 / O. Montreuil des 2011 [hw, red label] // LECTOTYPE [p, red label] // *Gymnopleurus* / *flagellatus* ssp. / *caliginosus* Balthasar 1934 [hw] / O. Montreuil det. [p] 2011 [hw]’.

Current status. *Gymnopleurus (Gymnopleurus) flagellatus caliginosus* Balthasar, 1934, see MONTREUIL (2011).

Remark. The designation of the lectotype was published by MONTREUIL (2011).

***Gymnopleurus geoffroyi mimus* Balthasar, 1934**

Gymnopleurus geoffroyi ssp. *mimus* Balthasar, 1934a: 148.

The lectotype and seven paralectotypes are deposited in NMPC (ex coll. V. Balthasar):

LECTOTYPE (unsexed specimen): ‘Elbrus Geb. / Persien Rtrr. [p] // Typus [p, red label] // ssp. *mimus* / Typus! m. [hw] / Dr. Balthasar det. [p] // LECTOTYPE [p, red label] // *Gymnopleurus* / *geoffroyi* ssp. *mimus* / Balthasar 1934 / O. Montreuil des. 2011 [hw, red label] // *Gymnopleurus* / *mimus* Balthasar / 1934 [hw] / O. Montreuil det. [p] 2011 [hw]’.

PARALECTOTYPE (unsexed specimen): ‘Elbrus Geb. / Persien Rtrr. [p] // Typus [p, red label] // ssp. *mimus* / Typus! m. [hw] / Dr. Balthasar det. [p] // PARA [hw] LECTOTYPE [p, red label] // *Gymnopleurus* / *geoffroyi* ssp. *mimus* / Balthasar 1934 / O. Montreuil 2011 des. [hw, red label] // *Gymnopleurus* / *mimus* Balthasar / 1934 [hw] / O. Montreuil det. [p] 2011 [hw]’.

PARALECTOTYPES (2 unsexed specimens): ‘Elbrus Geb. / Persien Rtrr. [p] // Typus [p, red label] // ssp. *mimus* / Type m. [hw] / Dr. Balthasar det. [p] // *Gymnopleurus* *geoffroyi* / ssp. *mimus* Balthasar, 1934 / Paralectotypus / det. A. Bezděk & J. Hájek, 2011 [p, red label]’.

PARALECTOTYPES (4 unsexed specimens): ‘Elbrus Geb. / Persien Rtrr. [p] // *Gymnopleurus* *geoffroyi* / ssp. *mimus* Balthasar, 1934 / Paralectotypus / det. A. Bezděk & J. Hájek, 2011 [p, red label]’.

Current status. *Gymnopleurus (Gymnopleurus) mimus* Balthasar, 1934, see MONTREUIL (2011).

Remark. BALTHASAR (1934a) described this species from an unknown number of specimens. MONTREUIL (2011) designated a lectotype and one paralectotype from the syntype series deposited in NMPC. Because there is no doubt about the authenticity of the additional specimens housed in NMPC, we have labelled them as additional paralectotypes.

***Gymnopleurus (Allogymnopleurus) histrio* Balthasar, 1963**

Gymnopleurus (Allogymnopleurus) histrio Balthasar, 1963a: 287, Fig. 3.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): ‘TYPUS [hw, red label] // Afr. or. 14. V. 57 / Tanganyika / Kihurio, 750 m [hw] // *Gymnopleurus* / (*Allogymnopl.*) / *histrio* n.sp. / Balth. / 62 [hw] Holotypus [p, pink label] // *G. (Allogymnopleurus)* / *histrio* Balth. [hw]’.

Current status. *Allogymnopleurus histrio* (Balthasar, 1963), see POKORNÝ & ZÍDEK (2009).

***Gymnopleurus (Gymnopleurus) hypocrita* Balthasar, 1960**

Gymnopleurus (s. str.) *hypocrita* Balthasar, 1960: 88.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (unsexed specimen): 'Chota-Nagpore / Falkot / R.P. Cardon / VII-VIII 1897 [p] // Slg. Oberthür / (Coll. Lefebvre) / Eing. Nr. 4, 1956 [p] // *Gymnopleurus* / (s. str.) / *hypocrita* / n.sp. Balth. [hw] / Holotypus [p, pink label]'.

Current status. *Gymnopleurus (Metagymnopleurus) hypocrita* Balthasar, 1960, see KABAKOV (2006).

***Gymnopleurus (Gymnopleurus) imitator* Balthasar, 1963**

Gymnopleurus (s. str.) *imitator* Balthasar, 1963a: 284, Fig. 1.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): 'S.W. Afr., Abachaus / Otjiwarongo Distr. / I. 1959 / leg. G. Hobohm [p] // *Gymnopleurus* / (s. str.) *imitator* n.sp. / Balthasar / 62 [hw] Holotypus [p, pink label]'.

Current status. Valid species.

***Gymnopleurus mopsus sinensis* Balthasar, 1934**

Gymnopleurus mopsus ssp. *sinensis* Balthasar, 1934a: 148.

Six syntypes are deposited in NMPC (ex coll. V. Balthasar):

SYNTYPES (4 unsexed specimens): 'Pecking / Westberge / Exp. Stötzner [p] // typus [p, red label] // ssp. *sinensis* / Typus. m. [hw] / Dr. Balthasar det. [p]'.

SYNTYPE (unsexed specimen): 'Szetschwan / Tatsienlu / Exp. Stötzner [p] // Typus [p, red label] // ssp. *sinensis* / Type! m. [hw] / Dr. Balthasar det. [p]'.

SYNTYPE (unsexed specimen): 'China [hw] / Dr. Balthasar [hw] // Typus [p, red label] // ssp. *sinensis* / Typus. m. [hw] / Dr. Balthasar det. [p]'.

Current status. Junior subjective synonym of *Gymnopleurus (Gymnopleurus) mopsus* (Pallas, 1781), see KABAKOV (2006).

***Gymnopleurus (Gymnopleurus) rhodesianus* Balthasar, 1963**

Gymnopleurus (s. str.) *rhodesianus* Balthasar, 1963a: 285, Fig. 2.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): 'COLL. MUS. CONGO / N. Rhodesia: Abercorn / 1949 / H.J. Brédo [p] // *Gymnopleurus* / (s. str.) *rhodesianus* n.sp. / 62 Balth. [hw] / Holotypus [p, pink label]'.

Current status. Valid species.

***Gymnopleurus (Allogymnopleurus) sexdentatus* Balthasar, 1963**

Gymnopleurus (Allogymnopleurus) sexdentatus Balthasar, 1963a: 288, Figs. 4–5.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): 'TYPUS [hw, red label] // Afr. c. / Ruanda / Gabiro IX. 59 [hw] // G. (Allogymnopl.) / 6-dentatus / n.sp. Balth. / 62 [hw] Holotypus [p, pink label] // *Allogymnopleurus* / alluaudi (Garreta) / S. Pokorný det. 2009 [p]'.

Current status. Junior subjective synonym of *Allogymnopleurus alluaudi* (Garreta, 1914), see POKORNÝ & ZÍDEK (2009).

***Gymnopleurus sinuatus szechouanicus* Balthasar, 1934**

Gymnopleurus sinuatus ssp. *szechouanicus* Balthasar, 1934a: 149.

The holotype and two paratypes are deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (unsexed specimen): ‘Tatsien-lu / Grenze Thibet Ost / Em. Reitter [p] // Typus [p, red label] // G. (Paragymnopleurus) / sinuatus / szechouanicus / Balth. [hw] / Holotypus [p] // Mus. Nat. Pragae / Inv. [p] 65881 [hw, red label]’.

PARATYPE (unsexed specimen): ‘Giufu Shan / Szechouan 1500 - / 2000 m. Reitter E. [p] // Typus [p, red label] // Mus. Nat. Pragae / Inv. [p] 65882 [hw, red label]’.

PARATYPE (unsexed specimen): ‘Giufu Shan / Szechouan 1500 - / 2000 m. Reitter E. [p] // Typus [p, red label] // Mus. Nat. Pragae / Inv. [p] 65883 [hw, red label]’.

Current status. *Paragymnopleurus sinuatus szechouanicus* (Balthasar, 1934), see JANSSENS (1940).

Subfamily Scarabaeidae: Oniticellini

***Drepanocerus arrowi* Balthasar, 1932**

Drepanocerus Arrowi Balthasar, 1932: 64, Figs. on p. 66.

Five syntypes are deposited in NMPC (ex coll. V. Balthasar):

SYNTYPES (5 unsexed specimens): ‘Giufu-Shan / Szechuan / Em. Reitter [p] // Typus [hw, red label] // Det. Dr. Balthasar [p] / D. Arrowi m. [hw]’.

Current status. Junior subjective synonym of *Sinodrepanus rex* (Boucomont, 1912), see JANSSENS (1953), SIMONIS (1985) and BEZDĚK & KRELL (2006).

Remark. The above mentioned synonymy was first proposed by JANSSENS (1953) as a result of revisionary study of the holotype of *Drepanocerus rex* Boucomont, 1912 and a single syntype of *D. arrowi*, both deposited in Muséum national d’Histoire naturelle, Paris, France. Based on Balthasar’s description, SIMONIS (1985) however indicated, that the syntype series of *D. arrowi* (now in NMPC) could be a mixture of two different species, both belonging to his new genus *Sinodrepanus* Simonis, 1985. Unfortunately, he was not able to study the complete syntype series of this species, nor did he designate a lectotype. The current status of *S. arrowi* is thus not fully resolved, BEZDĚK & KRELL (2006) provisionally accepted JANSSENS’s (1953) conclusions. The complete syntype series of *S. arrowi* is currently under study by E. Barbero and his coworkers (E. BARBERO, pers comm. 2011).

***Drepanocerus pulvinarius* Balthasar, 1963**

Drepanocerus pulvinarius Balthasar, 1963a: 293.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): ‘Arusha- / Chini [p] // Africa or. / Katona [p] // Drepanocerus / pulvinarius / n. sp. Balthasar [hw] / Holotypus [p] 62 [hw, pink label]’.

Current status. *Latodrepanus pulvinarius* (Balthasar, 1963), see KRIKKEN (2009).

***Drepanocerus saegeri* Balthasar, 1963**

Drepanocerus saegeri Balthasar, 1963d: 131.

Four paratypes are deposited in NMPC (ex coll. V. Balthasar):

PARATYPE (unsexed specimen): 'Congo Belge, P.N.G. / Miss. H. De Saeger / Morubia/4, 11-VI-1951 / Réc. J. Verschuren. 2110 [p] // *Drepanocerus / saegeri* n.sp. / 61 Balth. [hw] / Paratypus [p, pink label]'.

PARATYPE (unsexed specimen): 'Congo Belge, P.N.G. / Miss. H. De Saeger / PP/k/10, 11-I-1951 / Réc. J. Verschuren. 1084 [p] // *Drepanocerus / saegeri* n.sp. / 61 Balth. [hw] / Paratypus [p, pink label]'.

PARATYPES (2 unsexed specimens): 'Congo Belge, P.N.G. / Miss. H. De Saeger / PpK.15, 24-XII-1951 / Rec. H. De Saeger. 2947 [p] // *Drepanocerus / saegeri* n.sp. / 61 Balth. [hw] / Paratypus [p, pink label]'.

Current status. *Ixodina saegeri* (Balthasar, 1963), see KRÍKKEN (2009).

***Euoniticellus cambeforti* Masumoto, 1987**

Euoniticellus cambeforti Masumoto, 1987: 125, Figs. 1–2.

Two paratypes are deposited in NMPC (ex coll. D. Král):

PARATYPES (2 unsexed specimens): 'Chiang Dao / (Elephant Park) / THAILAND / 27.-31. VII. 1987 / K. MASUMOTO leg. [p] // PARATYPE / *Euoniticellus / cambeforti* / K. MASUMOTO, 1987 [p, pink label]'.

Current status. Valid species.

***Helictopleurus halffteri* Balthasar, 1964**

Helictopleurus halffteri Balthasar, 1964: 623.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): 'Madagascar / Antsianaka / Perrot Frères / 2e Semestre 1893 [p] // Slg. R. Oberthür / (Coll. C. Martin) / Eing. Nr. 4, 1956 [p] // *Helictopleurus / halffteri* n.sp. / Balth. / ♀ [hw] Holotypus [p] 63 [hw, pink label]'.

Current status. Valid species.

***Helictopleurus hypocrita* Balthasar, 1941**

Helictopleurus hypocrita Balthasar, 1941a: 89.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): 'Madagascar [hw] // TYPUS [p, red label, black margin] // *Helictopleurus / hypocrita* n. sp. [hw] / Dr. V. Balthasar det. [p] // *hypocrita* m. [hw, orange label]'.

Current status. Valid species.

***Helictopleurus perpunctatus* Balthasar, 1963**

Helictopleurus perpunctatus Balthasar, 1963a: 292.

One paratype is deposited in NMPC (ex coll. V. Balthasar):

PARATYPE (♀): 'Madagaskar / Juli 1954 [hw] // Sammlung / J. Schulze [hw] // Berlin [hw] // Dtsch. Entomol. / Institut Berlin [p] // *Helictopleurus / perpunctatus* / n. sp. Balth. / ♀ [hw] Paratypus [p] 60 [hw, pink label]'.

Current status. Valid species.

***Liatongus ancorifer* Král & Rejsek, 1999**

Liatongus ancorifer Král & Rejsek, 1999: 2, Figs. 1–3, 7–9, 13–15, 19–21, 26–27.

The holotype and 73 paratypes (including the allotype) are deposited in NMPC (ex coll. D. Král):

HOLOTYPE (♂): ‘China N-YUNNAN / 27°18'N 100°13'E / Jinsha r. vall. 1900m / DAJU, HUTIAO gorge / lgt. D. Král 15-17/7'90 [p] // *Liatongus / ancorifer* sp. n. / HOLOTYPUS / D. Král & J. Rejsek det. 1996 [p, red label]’.

PARATYPE (♀): ‘China N-YUNNAN / 27°18'N 100°13'E / Jinsha r. vall. 1900m / DAJU, HUTIAO gorge / lgt. D. Král 15-17/7'90 [p] // *Liatongus / ancorifer* sp. n. / ALLOTYPUS / D. Král & J. Rejsek det. 1996 [p, red label]’.

PARATYPES (7 ♂♂): ‘China N-YUNNAN / 27°18'N 100°13'E / Jinsha r. vall. 1900m / DAJU, HUTIAO gorge / lgt. D. Král 15-17/7'90 [p] // Coll. David Král / Dept. Zool. / Charles Univ. Praha [p] // *Liatongus / ancorifer* sp. n. [p] ♂ [hw] / PARATYPUS No. [p] 1 [hw, the respective paratype number from the range 1–7] / D. Král & J. Rejsek det. 1996 [p, red label]’.

PARATYPES (7 ♀♀): ‘China N-YUNNAN / 27°18'N 100°13'E / Jinsha r. vall. 1900m / DAJU, HUTIAO gorge / lgt. D. Král 15-17/7'90 [p] // Coll. David Král / Dept. Zool. / Charles Univ. Praha [p] // *Liatongus / ancorifer* sp. n. [p] ♀ [hw] / PARATYPUS No. [p] 9 [hw, the respective paratype number from the range 9–11, 13, 15–17] / D. Král & J. Rejsek det. 1996 [p, red label]’.

PARATYPES (13 ♂♂): ‘YUNNAN cca 2000m / 27.15N 100.09E / HUTIAO gorge / Jinsha r. 18.-22./7. / David Král leg. 92 [p] // Coll. David Král / Dept. Zool. / Charles Univ. Praha [p] // *Liatongus / ancorifer* sp. n. [p] ♂ [hw] / PARATYPUS No. [p] 20 [hw, the respective paratype number from the range 20, 23–24, 27–29, 31–35, 43–44] / D. Král & J. Rejsek det. 1996 [p, red label]’.

PARATYPES (41 ♀♀): ‘YUNNAN cca 2000m / 27.15N 100.09E / HUTIAO gorge / Jinsha r. 18.-22./7. / David Král leg. 92 [p] // Coll. David Král / Dept. Zool. / Charles Univ. Praha [p] // *Liatongus / ancorifer* sp. n. [p] ♀ [hw] / PARATYPUS No. [p] 70 [hw, the respective paratype number from the range 70–110] / D. Král & J. Rejsek det. 1996 [p, red label]’.

PARATYPES (3 ♂♂): ‘CHINA N. Yunnan / Haba mts., HUTIAOXIA / h = 2 400m / S. Murzin 21-26.6.1996 [p] // Coll. David Král / Dept. Zool. / Charles Univ. Praha [p] // *Liatongus / ancorifer* sp. n. [p] ♂ [hw] / PARATYPUS No. [p] 134 [hw, the respective paratype number from the range 134–136] / D. Král & J. Rejsek det. 1996 [p, red label]’.

PARATYPE (♀): ‘CHINA N. Yunnan / Haba mts., HUTIAOXIA / h = 2 400m / S. Murzin 21-26.6.1996 [p] // Coll. David Král / Dept. Zool. / Charles Univ. Praha [p] // *Liatongus / ancorifer* sp. n. [p] ♀ [hw] / PARATYPUS No. [p] 144 [hw] / D. Král & J. Rejsek det. 1996 [p, red label]’.

Current status. Valid species.

***Liatongus appositicornis* Král & Rejsek, 1999**

Liatongus appositicornis Král & Rejsek, 1999: 5, Figs. 4–6, 10–12, 16–18, 22–24, 28–29.

The holotype and eight paratypes (including of allotype) are deposited in NMPC (ex coll. D. Král):

HOLOTYPE (♂): ‘China, S Gansu prov. / VENXIAN env. / 18.-26.6.1995 / Beneš lgt. [p] // Coll. David Král / Dept. Zool. / Charles Univ. Praha [p] // *Liatongus / appositicornis* sp. n. / HOLOTYPUS [p] ♂ [hw] / David Král & Jiří Rejsek det. 1996 [p, red label]’.

PARATYPE (♀): ‘China, S Gansu prov. / VENXIAN env. / 18.-26.6.1995 / Beneš lgt. [p] // Coll. David Král / Dept. Zool. / Charles Univ. Praha [p] // *Liatongus / appositicornis* sp. n. / ALLOTYPUS [p] ♀ [hw] / David Král & Jiří Rejsek det. 1996 [p, red label]’.

PARATYPES (4 ♂♂): ‘China, S Gansu prov. / VENXIAN env. / 18.-26.6.1995 / Beneš lgt. [p] // Coll. David Král / Dept. Zool. / Charles Univ. Praha [p] // *Liatongus / appositicornis* sp. n. [p] ♂ [hw] / PARATYPUS No. [p] 7 [hw, the respective paratype number from the range 7–10] / David Král & Jiří Rejsek det. 1996 [p, red label]’.

PARATYPES (3 ♀♀): ‘China, S Gansu prov. / VENXIAN env. / 18.-26.6.1995 / Beneš lgt. [p] // Coll. David Král / Dept. Zool. / Charles Univ. Praha [p] // *Liatongus* / *appositicornis* sp. n. [p] ♀ [hw] / PARATYPUS No. [p] 26 [hw, the respective paratype number from the range 26–28] / David Král & Jiří Rejsek det. 1996 [p, red label]’.

Current status. Valid species.

Liatongus endroedii Balthasar, 1956

Liatongus endroedii Balthasar, 1956: 66.

The holotype and two paratypes are deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): ‘Giufu-Shan / Szechuan / Em. Reitter [p] // *Liatongus* / *endroedii* / Balth. [hw] Holotypus [p, pink label]’.

PARATYPE (♂): ‘Giufu-Shan / Szechuan / Em. Reitter [p] // *Liatongus* / *endroedii* / Balth. [hw] Paratypus [p, pink label]’.

PARATYPE (♂): ‘Tatsienlu-Kiulung / China Em. Reitter [p] // *Liatongus* / *endroedii* / Balth. [hw] Paratypus [p, pink label]’.

Current status. Valid species.

Remark. Balthasar in his collection labelled one female specimen of this species from ‘Giufu-Shan’ as the allotype. Nevertheless, in the primary description he (BALTHASAR 1956) clearly stated, that the species was described according to male specimens only. Thus we regard this female specimen as a non-type.

This species name was dedicated to the well-known Hungarian entomologist Sebő Endrődi (1903–1984). His surname cannot be treated as of a German origin, so according to the Article 32.5.2.1 (ICZN 1999) the spelling of this species name should be corrected to ‘*endroedii*’. Nevertheless, in this particular case, subsequent spelling ‘*endroedii*’ is widely used (BEZDĚK & KRELL 2006, KABAKOV 2006, KRAJČÍK 2006, KRÁL & REJSEK 1999, PALESTRINI et al. 2002, SCHEUERN 1988) and in prevailing usage, so spelling ‘*endroedii*’ is thus deemed to be correct and its use is to be maintained (ICZN 1999: Art. 33.3.1).

Liatongus ferreirae Balthasar, 1964

Liatongus ferreirae Balthasar, 1964: 622.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): ‘COLL. MUS. CONGO / Lulua: Sandoa [p] / X/XII [hw] 1932 [p] // F.G. Overlaet [p] // *Liatongus* / *ferreirae* n.sp. / Balth. / ♀ [hw] Holotypus [p] 63 [hw, pink label]’.

Current status. Valid species.

Liatongus hastatus Král & Rejsek, 1999

Liatongus hastatus Král & Rejsek, 1999: 11, Figs. 25, 30–31.

The holotype and two paratypes are deposited in NMPC (ex coll. D. Král – paratypes donated by D. Ahrens):

HOLOTYPE (♂): ‘Nepal, 15. 10. 1992 / Annapurna region / PISANG, Pečínka lgt. [p] // Coll. David Král / Dept. Zoology / Charles Univ. Praha [p] // *Liatongus* / *hastatus* sp. n. / HOLOTYPUS / David Král & Jiří Rejsek det. 1996 [p, red label]’.

PARATYPE (♂): 'NEPAL - HIMALAYA / Annapurna-Mts. / leg. Ahrens 1993 [p] // Chame bis / Bhrtang, 29. 5. / 2700-2900m [p] // *Liatongus* / *triacanthus* Bouc. / det: D. Ahrens [hw] // *Liatongus* / *hastatus* sp. n. / PARATYPUS No [p] 1 ♂ [hw] / David Král & Jiří Rejsek det. 1996 [p, red label]'.

PARATYPE (♂): 'NEPAL - HIMALAYA / Annapurna-Mts. / leg. Ahrens 1993 [p] // Chame bis / Bhrtang, 29. 5. / 2700-2900m [p] // *Liatongus* / *triacanthus* Bouc. / det: D. Ahrens [hw] // *Liatongus* / *hastatus* sp. n. / PARATYPUS No [p] 2 ♂ [hw] / David Král & Jiří Rejsek det. 1996 [p, red label]'.

Current status. Valid species.

Remark. KRÁL & REJSEK (1999) reported the personal collection of D. Ahrens (currently Bonn, Germany) as a depository for both paratypes. Later on, D. Ahrens donated these paratypes to the collection of D. Král.

Liatongus imitator Balthasar, 1938

Liatongus imitator Balthasar, 1938b: 98.

Four syntypes are deposited in NMPC (ex coll. V. Balthasar):

SYNTYPE (♂): 'Giufu-Shan / Szechuan / Em. Reitter [p] // Typus [p, red label, black margin] // *Liatongus* / *imitator* n.sp. [hw] / Dr. V. Balthasar det. [p]'.

SYNTYPES (2 ♂♂): 'Giufu-Shan / Szechuan / Em. Reitter [p] // Typus [p, red label, black margin]'.

SYNTYPE (♀): 'Tatsienlu-Kiulung / China Em. Reitter [p] // Typus [p, red label, black margin]'.

Current status. Valid species.

Oniticellus (Liatongus) boucomonti Balthasar, 1932

Oniticellus (Liatongus) Boucomonti Balthasar, 1932: 68.

Two syntypes are deposited in NMPC (ex coll. V. Balthasar):

SYNTYPES (2 ♀♀): 'Giufu-Shan / Szechuan / Em. Reitter [p] // Det. Dr. Balthasar [p] / *O. Boucomonti* m. [hw]'.

Current status. *Liatongus boucomonti*, nomen dubium.

Remark. This species was described according to an unknown number of specimens from the collection of V. Balthasar (BALTHASAR 1932). JANSSENS (1953) proposed, that the type series of *O. (L.) boucomonti* was a mixture of two species. Specimen(s) sexed as male(s) by Balthasar were identical with the female of *Liatongus denticornis* (Fairmaire, 1887), and those sexed as female(s) were identical with the female of *L. bucerus* (Fairmaire, 1891). BALTHASAR (1963b) himself fully accepted JANSSENS's (1953) conclusions. Because no lectotype has been designated yet, BEZDĚK & KRELL (2006) considered *L. boucomonti* as a nomen dubium.

Oniticellus freyi Balthasar, 1941

Oniticellus freyi Balthasar, 1941b: 180, Fig. 2.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (unsexed specimen): 'Hoa - Binh (Tonkin) / (A. de Cooman) / Coll. J. Clermont [p] // Typus [p, red label, black margin]'.

Current status. Valid species.

Remark. JANSSENS (1953) synonymized *Oniticellus freyi* with *O. tessellatus* Harold, 1879. Later on, BALTHASAR (1963c) raised it back as a valid species.

***Oniticellus parapictus* Balthasar, 1941**

Oniticellus parapictus Balthasar, 1941b: 182.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (unsexed specimen): 'Sénégal. [hw, oval label] // parapictus / m. [orange label, black margin]'.

Current status. Junior subjective synonym of *Oniticellus formosus* Chevrolat, 1830, see JANSSENS (1953).

***Oniticellus (Oniticellus) pseudoplanatus* Balthasar, 1964**

Oniticellus (s. str.) *pseudoplanatus* Balthasar, 1964: 619.

The holotype and four paratypes are deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♀): 'COLL. MUS. CONGO / Kivu: Bukavu / VII-1954 [p] // H. J. Brédo [p] // *Oniticellus / pseudoplanatus* / n.sp. Balth. / 63 [hw] Holotypus [p, pink label] // ♀ [hw] / Det. L. Mencl 2004 [p]'.

PARATYPES (1 ♂ and 2 unsexed specimens): 'COLL. MUS. CONGO / Kivu: Bukavu / VII-1954 [p] // H. J. Brédo [p] // *Oniticellus / pseudoplanatus* / n.sp. Balth. / 63 [hw] Paratypus [p, pink label]'.

PARATYPE (unsexed specimen): 'COLL. MUS. CONGO / Kivu: Bukavu / VIII-1954 [p] // H. J. Brédo [p] // *Oniticellus / pseudoplanatus* / n.sp. Balth. / 63 [hw] Paratypus [p, pink label]'.

Current status. *Oniticellus pseudoplanatus* Balthasar, 1964, see FERREIRA (1972).

***Oniticellus (Liatongus) semenovi* Balthasar, 1934**

Oniticellus (Liatongus) semenovi Balthasar, 1934b: 20.

The holotype is deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): 'Wassuland [hw] // Szechuan China / 1.400 m E. Reitter [p] // O. Semenovi / Typus! m. [hw] / Dr. V. Balthasar det. [p]'.

Current status. Junior subjective synonym of *Liatongus denticornis* (Fairmaire, 1887), see JANSSENS (1953) and BALTHASAR (1963c).

***Oniticellus (Liatongus) vseteckai* Balthasar, 1933**

Oniticellus (Liatongus) vseteckai Balthasar, 1933b: 63.

The holotype and two paratypes (including the allotype) are deposited in NMPC (ex coll. V. Balthasar):

HOLOTYPE (♂): 'Tatsienlu Tsendsé / Szechuan China [p] // *Oniticellus / vseteckai* m. typ. [hw] / Dr. Balthasar det. [p] // *Liatongus / vseteckai* / ♂ maior Balth. [hw] / Holotypus [p, pink label]'.

PARATYPE (♀): 'Tatsienlu Tsendsé / Szechuan China [p] // *Oniticellus / vseteckai* m. typ. [hw] / Dr. Balthasar det. [p] // *Liatongus / vseteckai* / ♀ Balth. [hw] / Allotypus [p, pink label]'.

PARATYPE (♂): 'Tatsienlu / Yüling Süd / Szechuan China [p] // *Liatongus / vseteckai* / ♂ Balthasar [hw] / Paratypus [p, pink label]'.

Current status. *Liatongus vseteckai* (Balthasar, 1933), see, e.g., BALTHASAR (1963c).

***Tiniocellus asmarensis* Balthasar, 1968**

Tiniocellus asmarensis Balthasar, 1968: 955.

Two paratypes are deposited in NMPC (ex coll. V. Balthasar):

PARATYPES (2 unsexed specimens): 'Eritrea / Asmara [p] // *Tiniocellus / asmarensis / n. sp. Balth. / 68 [hw] / Paratypus [p, pink label] // ex. coll. V. Balthasar / National Museum / Prague, Czech Republic [p] // *Tiniocellus asmarensis / Balthasar, 1968 - Paratypus / = Tiniocellus spinipes* (Roth, 1851) / T. Branco det. 2008 [p]'*

Current status. Junior subjective synonym of *Tiniocellus spinipes* (Roth, 1851), see BRANCO (2010).

Remark. BRANCO (2010) erroneously reported NMPC as the depository for the holotype of *T. asmarensis*, but according to the primary description, the holotype of this species was housed in Magyar Természettudományi Múzeum in Budapest, Hungary (BALTHASAR 1968).

Types of infrasubspecific entities**Subfamily Scarabaeinae: Gymnopleurini**

Gymnopleurus (Allogymnopleurus) anthracinus ab. *martini* Balthasar, 1960 – 2 unsexed specimens

Gymnopleurus (Gymnopleurus) plicatulus ab. *djibuticus* Balthasar, 1965a – 3 unsexed specimens

Missing types**Subfamily Scarabaeinae: Coprini*****Catharsiocopris quadrituberculatus* Balthasar, 1967**

Catharsiocopris quadrituberculatus Balthasar, 1967: 48, Fig. 1.

Current status. Valid species.

Remark. This species was described according to two specimens (the holotype and one paratype), the paratype should be deposited in the collection of V. Balthasar (BALTHASAR 1967). However, there is no mention of this species in the Balthasar's collection, and we were not able to trace the type specimen in the NMPC.

***Catharsius (Metacatharsius) basilewskyi* Balthasar, 1961**

Catharsius (Metacatharsius) basilewskyi Balthasar, 1961: 103, Fig. 5.

Current status. *Metacatharsius basilewskyi* (Balthasar, 1961), see FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

Remark. This species was described according to two specimens (the holotype and one paratype), the paratype should be deposited in the collection of V. Balthasar (BALTHASAR 1961). However, there is no mention of this species in the Balthasar's collection, and we were not able to trace the type specimen in the NMPC.

***Catharsius (Metacatharsius) darfurensis* Balthasar, 1965**

Catharsius (Metacatharsius) darfurensis Balthasar, 1965b: 17, Fig. 2.

Current status. *Metacatharsius darfurensis* (Balthasar, 1965), see FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

Remark. This species was described according to the holotype only from the collection of V. Balthasar (BALTHASAR 1965b). However, there is no mention of this species in the Balthasar's collection, and we were not able to trace the type specimen in the NMPC.

***Catharsius (Metacatharsius) holyi* Balthasar, 1965**

Catharsius (Metacatharsius) holyi Balthasar, 1965b: 22, Fig. 3.

Current status. *Metacatharsius holyi* (Balthasar, 1965), see FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

Remark. This species was described according to two specimens (the holotype and one paratype), both from the collection of V. Balthasar (BALTHASAR 1965b). However, there is no mention of this species in the Balthasar's collection, and we were not able to trace the type specimens in the NMPC.

***Catharsius (Metacatharsius) imitator* Balthasar, 1965**

Catharsius (Metacatharsius) imitator Balthasar, 1965b: 23.

Current status. *Metacatharsius imitator* (Balthasar, 1965), see FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

Remark. This species was described according to the holotype only from the collection of V. Balthasar (BALTHASAR 1965b). However, there is no mention of this species in the Balthasar's collection, and we were not able to trace the type specimen in the NMPC.

***Catharsius (Metacatharsius) modestus* Balthasar, 1965**

Catharsius (Metacatharsius) modestus Balthasar, 1965b: 30.

Current status. *Metacatharsius modestus* (Balthasar, 1965), see FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

Remark. This species was described according to the holotype only from the collection of V. Balthasar (BALTHASAR 1965b). However, there is no mention of this species in the Balthasar's collection, and we were not able to trace the type specimen in the NMPC.

***Catharsius (Metacatharsius) parcepunctatus* Balthasar, 1965**

Catharsius (Metacatharsius) parcepunctatus Balthasar, 1965b: 33.

Current status. *Metacatharsius parcepunctatus* (Balthasar, 1965), see FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

Remark. This species was described according to the holotype only from the collection of V. Balthasar (BALTHASAR 1965b). However, there is no mention of this species in the Balthasar's collection, and we were not able to trace the type specimen in the NMPC.

***Catharsius (Metacatharsius) perpunctatus* Balthasar, 1965**

Catharsius (Metacatharsius) perpunctatus Balthasar, 1965b: 36, Fig. 8.

Current status. *Metacatharsius perpunctatus* (Balthasar, 1965), see FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

Remark. This species was described according to the holotype only from the collection of V. Balthasar (BALTHASAR 1965b). However, there is no mention of this species in the Balthasar's collection, and we were not able to trace the type specimen in the NMPC.

***Catharsius (Metacatharsius) petrovitzi* Balthasar, 1965**

Catharsius (Metacatharsius) petrovitzi Balthasar, 1965b: 37.

Current status. *Metacatharsius petrovitzi* (Balthasar, 1965), see FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

Remark. This species was described according to the holotype only from the collection of V. Balthasar (BALTHASAR 1965b). However, there is no mention of this species in the Balthasar's collection, and we were not able to trace the type specimen in the NMPC.

***Catharsius (Metacatharsius) rosinae* Balthasar, 1970**

Catharsius (Metacatharsius) rosinae Balthasar, 1970: 246.

Current status. *Metacatharsius rosinae* (Balthasar, 1970), see MONTREUIL (1998) and BRANCO (2011).

Remark. This species was described according to the holotype only from the collection of V. Balthasar (BALTHASAR 1970). However, there is no mention of this species in the Balthasar's collection, and we were not able to trace the type specimen in the NMPC.

***Catharsius (Metacatharsius) tchadensis* Balthasar, 1961**

Catharsius (Metacatharsius) tchadensis Balthasar, 1961: 102, Fig. 4.

Current status. *Metacatharsius tchadensis* (Balthasar, 1961), see FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

Remark. This species was described according to three specimens (the holotype and two paratypes), one paratype should be deposited in the collection of V. Balthasar (BALTHASAR 1961). However, there is no mention of this species in the Balthasar's collection, and we were not able to trace the type specimen in the NMPC.

***Catharsius (Metacatharsius) transvaalensis* Balthasar, 1968**

Catharsius (Metacatharsius) transvaalensis Balthasar, 1968: 953.

Current status. *Metacatharsius transvaalensis* (Balthasar, 1968), see FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

Remark. This species was described according to the holotype only from the collection of V. Balthasar (BALTHASAR 1968). However, there is no mention of this species in the Balthasar's collection, and we were not able to trace the type specimen in the NMPC.

***Catharsius (Metacatharsius) trianguliceps* Balthasar, 1965**

Catharsius (Metacatharsius) trianguliceps Balthasar, 1965b: 43, Fig. 9.

Current status. *Metacatharsius trianguliceps* (Balthasar, 1965), see FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

Remark. This species was described according to the holotype only from the collection of V. Balthasar (BALTHASAR 1965b). However, there is no mention of this species in the Balthasar's collection, and we were not able to trace the type specimen in the NMPC.

***Catharsius (Metacatharsius) zuluanus* Balthasar, 1965**

Catharsius (Metacatharsius) zuluanus Balthasar, 1965b: 47.

Current status. *Metacatharsius zuluanus* (Balthasar, 1965), see FERREIRA (1972), MONTREUIL (1998) and BRANCO (2011).

Remark. This species was described according to the holotype only from the collection of V. Balthasar (BALTHASAR 1965b). However, there is no mention of this species in the Balthasar's collection, and we were not able to trace the type specimen in the NMPC.

***Coptodactyla (Boucomontia) imitatrix* Balthasar, 1965**

Coptodactyla (Boucomontia) imitatrix Balthasar, 1965a: 21.

Current status. Junior subjective synonym of *Coptodactyla depressa* Paulian, 1933, see MATTHEWS (1976).

Remark. This species was described according to the holotype only from the collection of V. Balthasar (BALTHASAR 1965a). However, there is no mention of this species in the Balthasar's collection, and we were not able to trace the type specimen in the NMPC.

***Parachorius krali* Utsunomiya & Masumoto, 2001**

Parachorius krali Utsunomiya & Masumoto, 2001: 29, Figs. 1–2.

Current status. Valid species.

Remark. This species was described according to the holotype and one paratype. Although NMPC is reported as the depository of the holotype, it is in fact housed in the National Science Museum (Natural History) in Tokyo, Japan (K. MASUMOTO, pers. comm. 2011).

Subfamily Scarabaeinae: Gymnopleurini***Gymnopleurus (Paragymnopleurus) martinezi* Balthasar, 1955**

Gymnopleurus (Paragymnopleurus) martinezi Balthasar, 1955: 393.

Current status. *Paragymnopleurus martinezi* (Balthasar, 1955), cf. JANSSENS (1940) and KABAKOV (2006).

Remark. This species was described according to the holotype only from the collection of V. Balthasar (BALTHASAR 1955). However, there is no mention of this species in the Balthasar's collection, and we were not able to trace the type specimen in the NMPC.

Gymnopleurus (Paragymnopleurus) stipes japonicus Balthasar, 1955

Gymnopleurus (Paragymnopleurus) stipes ssp. *japonicus* Balthasar, 1955: 395.

Current status. Nomen dubium.

Remark. This subspecies was described according to the holotype only from the collection of V. Balthasar (BALTHASAR 1955). However, there is no mention of this taxon in the Balthasar's collection, and we were not able to trace the type specimen in the NMPC. Because the depository of the type is not known and no gymnopleurine species is known from Japan (e.g. FUJIOKA 2001), the name *G. (P.) stipes japonicus* was regarded a nomen dubium by BEZDĚK (2006).

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References

- BALTHASAR V. 1932: Dva nové druhy tribu Oniticellini ze Sečuanu. (Zwei neue Arten der Oniticellini aus Szétschwan). *Časopis Československé Společnosti Entomologické* **29**: 64–69 (in Czech and German).
- BALTHASAR V. 1933a: Die chinesischen Copris-Arten. Mit Beschreibung von zwei neuen Arten (Col.). *Stettiner Entomologische Zeitung* **94**: 263–273.
- BALTHASAR V. 1933b: Einige neue Coprophagen aus China. *Entomologisches Nachrichtenblatt* **7**: 55–68.
- BALTHASAR V. 1934a: Neue Coprinen-Arten und -Abarten. *Entomologische Blätter* **30**: 146–149.
- BALTHASAR V. 1934b: 25. Beitrag zur Kenntnis der palaearktischen Scarabaeiden. *Entomologisches Nachrichtenblatt* **8**: 20–24.
- BALTHASAR V. 1938a: Neue Gattungen und Arten der südamerikanischen Coprophagen. *Entomologische Blätter* **34**: 210–223.
- BALTHASAR V. 1938b: Nové druhy Scarabaeidů. (Neue Scarabaeiden-Arten). *Časopis Československé Společnosti Entomologické* **35**: 96–101 (in Czech and German).
- BALTHASAR V. 1939a: Neue Canthidium-Arten. *Entomologisches Nachrichtenblatt* **13**: 111–140.
- BALTHASAR V. 1939b: Neue Arten der coprophagen Scarabaeiden aus dem Museo Zoologico della R. Università di Firenze. *Redia* **25**: 1–36.
- BALTHASAR V. 1939c: Neue Megathopa- und Eurysternus-Arten. *Entomologische Blätter* **35**: 111–116.
- BALTHASAR V. 1939d: Nové druhy palearktických a neotropických coprophagních scarabaeidů. (Neue Arten der palaearktischen und neotropischen coprophagen Scarabaeiden). *Entomologické Listy* **2**: 41–47 (in Czech and German).
- BALTHASAR V. 1940: Několik nových druhů z čeledi Scarabaeidae. (Einige neue Scarabaeiden-Arten). *Časopis České Společnosti Entomologické* **37**: 67–76 (in Czech and German).
- BALTHASAR V. 1941a: Eine Reihe von neuen coprophagen Scarabaeiden. *Entomologische Blätter* **37**: 84–93.
- BALTHASAR V. 1941b: Eine Reihe von neuen coprophagen Scarabaeiden. *Mitteilungen der Münchner Entomologischen Gesellschaft* **31**: 164–184.
- BALTHASAR V. 1942a: Nové druhy a rody coprophagních scarabaeidů. (Neue Arten und Gattungen der coprophagen Scarabaeiden). *Acta Entomologica Musei Nationalis Pragae* **20**: 188–206 (in Czech and German).

- BALTHASAR V. 1942b: Die Coprophagen der chinesischen Provinz Fukien. *Entomologische Blätter* **38**: 113–125.
- BALTHASAR V. 1952: Coprophagni Scarabaeidae čínské provincie Fukien (II. díl). (Die Coprophagen der chinesischen Provinz Fukien (II. Teil)). *Acta Entomologica Musei Nationalis Pragae* **28**: 223–236 (in Czech and German).
- BALTHASAR V. 1955: Eine neue Art und Unterart der Gattung *Gymnopleurus* Illig. (Col.). *Mitteilungen der Münchener Entomologischen Gesellschaft* **44–45**: 393–396.
- BALTHASAR V. 1956: Einige neue laparostictie Scarabaeiden. *Entomologische Blätter* **52**: 66–73.
- BALTHASAR V. 1958: Einige neue Untergattung und einige neue Arten der Gattung *Copris* Geoffr. *Acta Entomologica Musei Nationalis Pragae* **32**: 471–480.
- BALTHASAR V. 1960: Einige neue Arten der Familie Scarabaeidae. *Entomologische Blätter* **56**: 88–94.
- BALTHASAR V. 1961: Coléoptères Scarabaeidae nouveaux de l’Afrique Tropicale. *Revue de Zoologie et de Botanique Africains* **63**: 96–104.
- BALTHASAR V. 1963a: Neue Arten der Familie Scarabaeidae. *Časopis Československé Společnosti Entomologické* **60**: 284–295.
- BALTHASAR V. 1963b: *Monographie der Scarabaeidae und Aphodiidae der palaearktischen und orientalischen Region. Band 1. Allgemeiner Teil, Systematischer Teil: 1. Scarabaeinae, 2. Coprinae (Pinotini, Coprini)*. Tschechoslowakischen Akademie der Wissenschaften, Prag, 391 pp + 24 plates.
- BALTHASAR V. 1963c: *Monographie der Scarabaeidae und Aphodiidae der palaearktischen und orientalischen Region. Band 2. Coprinae (Onitini, Oniticellini, Onthophagini)*. Tschechoslowakischen Akademie der Wissenschaften, Prag, 627 pp + 16 plates.
- BALTHASAR V. 1963d: Oniticellini. Eine neue Art von *Drepanocerus*. *Exploration du Parc National de la Garamba, Mission H. De Saeger (1949–1952)* **40**: 131–135.
- BALTHASAR V. 1964: Neue Oniticellinen-Arten. *Beiträge zur Entomologie* **14**: 619–624.
- BALTHASAR V. 1965a: Eine neue Untergattung und neue Arten der familie Scarabaeidae. *Acta Entomologica Bohemoslovaca* **62**: 14–23.
- BALTHASAR V. 1965b: Monographie der Untergattung *Metacatharsius* Paul. (Gattung *Catharsius* Hope) (Coleoptera). *Entomologische Abhandlungen aus dem Staatlichen Museum für Tierkunde in Dresden* **31**: 1–48.
- BALTHASAR V. 1967: The scientific results of the Hungarian Soil Zoological Expedition to the Brazzaville-Congo. 22. Scarabaeidae und Coprinae (Coleoptera). *Opuscula Zoologica (Budapest)* **7**: 47–73.
- BALTHASAR V. 1968: Neue Scarabaeiden-Arten. *Beiträge zur Entomologie* **18**: 953–958.
- BALTHASAR V. 1970: Neue Arten der Scarabaeoidea (Coleoptera). *Acta Entomologica Bohemoslovaca* **67**: 245–253.
- BEZDĚK A. 2006: Scarabaeidae: Scarabaeinae: Gymnopleurini. Pp. 154–156. In: LÖBL I. & SMETANAA. (eds.): *Catalogue of Palaearctic Coleoptera. Volume 3. Scarabaeoidea – Scirtoidea – Dascilloidea – Buprestoidea – Byrrhoidea*. Apollo Books, Stenstrup, 690 pp.
- BEZDĚK A. & HÁJEK J. 2009: Catalogue of type specimens of beetles (Coleoptera) deposited in the National Museum (Natural History) in Prague, Czech Republic. Scarabaeoidea: Bolboceratidae, Geotrupidae, Glaphyridae, Hybosoridae, Ochodaecidae and Trogidae. *Acta Entomologica Musei Nationalis Pragae* **49**: 297–332.
- BEZDĚK A. & HÁJEK J. 2010a: Catalogue of type specimens of beetles (Coleoptera) deposited in the National Museum, Prague, Czech Republic. Scarabaeidae: Dynamopodinae, Dynastinae, Melolonthinae and Rutelinae. *Acta Entomologica Musei Nationalis Pragae* **50**: 279–320.
- BEZDĚK A. & HÁJEK J. 2010b: Catalogue of type specimens of beetles (Coleoptera) deposited in the National Museum, Prague, Czech Republic. Scarabaeidae: Cetoniinae (including Trichiini) and Valginae. *Acta Entomologica Musei Nationalis Pragae* **50**: 629–655.
- BEZDĚK A. & HÁJEK J. 2011: Catalogue of type specimens of beetles (Coleoptera) deposited in the National Museum, Prague, Czech Republic. Scarabaeidae: Scarabaeinae: Ateuchini and Canthonini. *Acta Entomologica Musei Nationalis Pragae* **51**: 349–378.
- BEZDĚK A. & KRELL F.-T. 2006: Oniticellini. Pp. 156–158. In: LÖBL I. & SMETANA A. (eds.): *Catalogue of Palaearctic Coleoptera. Volume 3. Scarabaeoidea – Scirtoidea – Dascilloidea – Buprestoidea – Byrrhoidea*. Apollo Books, Stenstrup, 690 pp.

- BRANCO T. 2010: Revision of the genera *Tiniocellus* Péringuey, 1901 and *Nitiocellus* gen. n. (Coleoptera, Scarabaeidae, Oniticeellini). *Boletín de la Sociedad Entomológica Aragonesa* **47**: 71–126.
- BRANCO T. 2011: Scarabaeidae de l'Afrique de l'Ouest: les noms du niveau genre et leurs espèces types (Coleoptera). *Catharsius La Revue* **4**: 9–25.
- DAVIS A. L. V., FROLOV A. V. & SCHOLTZ C. H. 2008: *The African dung beetle genera*. Protea Book House, Pretoria, 272 pp.
- FERREIRA M. C. 1972: Os Escarabídeos de África (sul do Saára). I. *Revista de Entomologia de Moçambique* **11** (1968–1969): 5–1088.
- FUJIOKA M. 2001: A list of Japanese lamellicornia. *Kogane, Supplement 1*: 1–293 (in Japanese, English title).
- GÉNIER F. 1996: A revision of the Neotropical genus *Ontherus* Erichson (Coleoptera: Scarabaeidae, Scarabaeinae). *Memoirs of the Entomological Society of Canada* **170**: 1–169.
- GÉNIER F. 2009: *Le genre Eurysternus Dalman, 1824 (Scarabaeidae: Scarabaeinae: Oniticeellini), révision taxonomique et clés de détermination illustrées*. Pensoft, Sofia & Moscow, 430 pp.
- HANSKI I. & CAMBEFORT Y. (eds.) 1991: *Dung beetle ecology*. Princeton University Press, Princeton, 481 pp.
- HAROLD E. 1867: Zur Kenntnis der Gattung *Canthidium* und ihrer nächsten Verwandten. *Coleopterologische Hefte* **1**: 1–61.
- ICZN 1999: *International Code of Zoological Nomenclature. Fourth Edition*. International Trust for Zoological Nomenclature, London, 306 pp.
- JANSSENS A. 1940: Monographie des gymnopleurides (Coleoptera Lamellicornia). *Mémoires du Musée Royal d'Histoire Naturelle de Belgique (Deuxième Série)* **18**: 1–73.
- JANSSENS A. 1953: Oniticeellini (Coleoptera Lamellicornia). *Exploration du Parc National de l'Upemba, Mission G. F. de Witte* **11**: 3–118.
- JESSOP L. 1985: An identification guide to eurysternine dung beetles (Coleoptera, Scarabaeidae). *Journal of Natural History* **19**: 1087–1111.
- KABAKOV O. N. 2006: *Plastichatousye zhuki podsemeystva Scarabaeinae fauny Rossii i sopredel'nykh stran*. [Lamellicorn beetles of the subfamily Scarabaeinae of Russia and neighbouring countries]. KMK, Moskva, 374 pp (in Russian).
- KRAJČÍK M. 2006: Checklist of Scarabaeoidea of the world. I. Scarabaeinae (Coleoptera: Scarabaeidae: Scarabaeinae). *Animma.x, Supplement 3*: 1–190.
- KRÁL D. 2002: Distribution and taxonomy of some *Synopsis* species, with description of *S. strnadi* sp. n. from Vietnam (Coleoptera: Scarabaeidae). *Acta Societatis Zoologicae Bohemicae* **66**: 279–289.
- KRÁL D. & REJSEK J. 1999: The *Liatongus* species with moveable clypeal horn (Coleoptera: Scarabaeidae). *Folia Heyrovskyana, Supplementum 5*: 1–18.
- KRÁL D. & REJSEK J. 2000: *Synopsis naxiorum* sp. n. from Yunnan (Coleoptera: Scarabaeidae). *Acta Societatis Zoologicae Bohemicae* **64**: 267–270.
- KRIKKEN J. 2009: Drepanocerine dung beetles: a group overview, with description of new taxa (Coleoptera: Scarabaeidae: Scarabaeinae). *Haroldius* **4**: 1–30.
- LÖBL I., KRELL F.-T. & KRÁL D. 2006: Scarabaeidae: Scarabaeinae: Coprini. Pp. 151–154. In: LÖBL I. & SMETANA A. (eds.): *Catalogue of Palaearctic Coleoptera. Volume 3. Scarabaeoidea – Scirtoidea – Dascilloidea – Buprestoidea – Byrrhoidea*. Apollo Books, Stenstrup, 690 pp.
- LUEDERWALDT H. 1930: Nova species brasileras do genero *Pinotus*, grupo de *Fissus* (Col. Lamellic.-Copridae). (Neue brasilianische *Pinotus*-Arten der *Fissus*-Gruppe). *Boletim do Museu Nacional* **6**: 119–122.
- MARTÍNEZ A. 1951: Notas coleopterológicas V. La invalidez del nombre genérico *Pinotus* Erichson y dos nuevas sinonimias (Col., Scarab). *Anales de la Sociedad Científica Argentina* **92**: 138–142.
- MARTÍNEZ A. & HALFFTER G. 1986: Situación del género *Canthidium* Erichson (Coleoptera: Scarabaeidae: Scarabaeidae). *Acta Zoologica Mexicana (Nueva Serie)* **17**: 19–40.
- MASUMOTO K. 1987: Coprophagid-beetles from Northwest Thailand (1). *Entomological Review of Japan* **42**: 125–131.
- MASUMOTO K. 1989: Coprophagid-beetles from Northwest Thailand (IV). *Entomological Review of Japan* **44**: 87–96.
- MATTHEWS E. G. 1962: A revision of the genus *Copris* Müller of the Western Hemisphere (Coleoptera, Scarabaeidae).

- baeidae). *Entomologica Americana* **41**: 1–139.
- MATTHEWS E. G. 1976: A revision of the scarabaeine dung beetles of Australia III. Tribe Coprini. *Australian Journal of Zoology, Supplementary Series* **38**: 1–52.
- MATTHEWS E. G. & HALFFTER G. 1959: Nuevas especies Americanas del genero Copris (Col., Scarab.). (New American species of the genus Copris (Col., Scarabaeidae)). *Ciencia (México)* **18**: 191–204.
- MONTREUIL O. 1998: Analyse phylogénétique et paraphylie des Coprini et Dichotomiini (Coleoptera: Scarabaeidae). Scénario biogéographique. *Annales de la Société Entomologique de France (Nouvelle Série)* **34**: 135–148.
- MONTREUIL O. 2011: Les Gymnopleurini d’Iran (Coleoptera, Scarabaeidae). *Bulletin de la Société Entomologique de France* **116**: 405–419.
- NAKANE T. & TSUKAMOTO K. 1955: On the genus Copris Geoffroy in Japan. *Akitsu* **4**: 44–50 (in Japanese, English summary).
- NGUYEN-PHUNG T. 1988: Révision des espèces afrotropicales du genre Copris Müller, 1764 (Coleoptera: Scarabaeidae). IV. Le groupe fidius Olivier (Coleoptera, Scarabaeidae). *Revue Française d’Entomologie, Nouvelle Série* **10**: 5–15.
- NGUYEN-PHUNG T. 1989: Révision des espèces afrotropicales du genre Copris Müller, 1764 (Coleoptera: Scarabaeidae). VIII. Le groupe orion Klug. *Annales de la Société Entomologique de France (Nouvelle Série)* **25**: 199–208.
- OCHI T., KON M. & BAI M. 2009: Three new species of Copris (Coleoptera: Scarabaeidae) from China, with description of a new subgenus. *Entomological Review of Japan* **64**: 207–216.
- PALESTRINI C., BARBERO E. & ROGGERO A. 2004: Note su filogenesi e zoogeografia del genere Liatongus Reitter, 1893 (Coleoptera Scarabaeidae Oniticeellini). *Atti XIX Congresso Nazionale Italiano di Entomologia* **1**: 77–83.
- POKORNÝ S. & ZÍDEK J. 2009: Review of the Gymnopleurini (Coleoptera: Scarabaeidae: Scarabaeinae). I. Introduction and the genus Allogymnopleurus. *Folia Heyrovskyana, Series A* **17**: 133–149.
- SCHUEERN J. 1988: Zur Taxonomie der Gattung Liatongus Reitter, 1892, mit Beschreibung einer neuen Art aus Bhutan (Coleoptera, Scarabaeidae). *Entomologica Basiliensia* **12**: 305–317.
- SCHOLTZ C. H. & GREBENNIKOV V. V. 2005: Scarabaeiformia Crowson, 1960. Pp. 345–365. In: BEUTEL R. G. & LESCHEN R. A. B. (eds.): *Coleoptera, Beetles. Volume 1: Morphology and Systematics (Archostemata, Adephaga, Myxophaga, Polyphaga partim). Handbook of Zoology. Vol. IV. Arthropoda: Insecta. Part 38*. Walter de Gruyter, Berlin, 567 pp.
- SIMONIS A. 1985: Un nuovo genere e tre nuove specie di Drepanocerina (Coleoptera, Scarabaeidae: Oniticeellini). *Revue Suisse de Zoologie* **92**: 93–104.
- TESAŘ Z. 1937: Copris Yamamotoi sp. n. *Časopis Československé Společnosti Entomologické* **34**: 101 (in Czech and German).
- UTSUNOMIYA Y. & MASUMOTO K. 2001: A new Parachorius (Coleoptera, Scarabaeidae, Dichotomiini) from Yunnan. *Elytra* (Tokyo) **29**: 125–127.
- VAZ-DE-MELLO F. Z. 2008: Synopsis of the new subtribe Scatimina (Coleoptera: Scarabaeidae: Scarabaeinae: Ateuchini), with descriptions of twelve new genera and review of Genieridium, new genus. *Zootaxa* **1955**: 1–75.
- ZÍDEK J. & POKORNÝ S. 2010: Review of Synapsis Bates (Scarabaeidae: Scarabaeinae: Coprini), with description of a new species. *Insecta Mundi* **142**: 1–21.

