Catalogue of the type material of Scarabaeoidea (Coleoptera) deposited in the Research Institute of Evolutionary Biology, Tokyo, Japan

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Abstract
A detailed catalogue of the type material of the Scarabaeoidea housed in the Research Institute of Evolutionary Biology, Tokyo, Japan is listed. The catalogue includes the data of the type material of four families and 111 species.

Keywords
Allotype, Geotrupidae, holotype, Lucanidae, neotype, paratype, Scarabaeidae, Trogidae

Introduction
In this report we present a catalogue of the type material of Scarabaeoidea housed in the Research Institute of Evolutionary Biology, Tokyo, Japan (RIEB). The beginning of the RIEB collection dates back to 1950, when the first natural objects were deposited at the Research Institute of Thremmatology of the Tokyo University of Agriculture (RIT) established that year. RIT was transformed into an incorporated foundation in 1974 and renamed Research Institute of Evolutionary Biology (Yamamoto 2000). The Lepidoptera collection in the RIEB was listed in detail by Aoki et al. (2005, 2008) and Yamaguchi et al. (2006, 2008, 2009, 2011, 2017), but the Coleoptera collection has never been catalogued. This creates
a problem because well-organized museum collections and published type specimen cat-
alogues are very important to facilitate taxonomic and systematic investigations of animals.

The majority of the types of Scarabaeidae deposited in the RIEB originate from
the collection of Mr Yoshikazu Miyake (1926–2003), a well-known Japanese amateur
specialist on Scarabaeidae, who was also the author of those taxa. A part of types of
Miyake’s species is also housed in the National Museum of Nature and Science, Tokyo
(NMNS) and the Nagaoka Municipal Science Museum, Niigata (NMSM). Unfortu-
nately, some of his types are missing.

In addition, other researchers that contributed to the Scarabaeoidea type collection
in RIEB are: Dirk Ahrens, Aleš Bezděk, Toshiyuki Ichikawa, Takeshi Itoh (Takeshi
Matsumoto), Kimio Masumoto, Sizumu Nomura, Teruo Ochi, and Kaoru Wada.

**Materials and methods**

The scientific names of higher taxa in this catalogue follow Scholtz and Grebennikov
(2016). The structure of each entry is as follows:

- original combination of the taxon name;
- original combination and spelling of the taxon name, followed by the author, year
  of description, and pagination;
- type material, number of specimens (including sex, if known), and exact label
data. A double slash ‘//’ indicates separate labels and single slash ‘/’ indicates lines
within each label. The words in Japanese or Chinese were transcribed into Roman
alphabet. Paratypes with discrepancies between collection data on the label and
data quoted in the original description are indicated by ‘[[ ]]’;
- remarks on types condition (given only for holotypes and neotypes);
- current taxonomic status;
- remarks, if any.

The majority of holotypes and neotypes were photographed with a Nikon D7200
camera using a Nikon AF-S DX Micro NIKKOR 40 mm f/2.8 G lens, and some types
were photographed with a KEYENCE VHX-1000 Digital Microscope.

**Catalogue**

**Family Geotrupidae**

**Subfamily Geotrupinae**

**Genus Sinogeotrupes**

*Sinogeotrupes taiwanus* Miyake & Yamaya

*Sinogeotrupes taiwanus* Miyake & Yamaya, 1995: 32–34.
Note. The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

Paratypes. 3 exs.: 1 ex. ‘Wusha / –VI–1941 / R. Boloudo // Paratype / Sinogeotrupes taiwanus / Y. MIYAKE et YAMAYA, 1995’. 1 ex. ‘Wu sha / Formosa / 21. Vi. 1941 / Col. Bumua Tin // Geotrupes / subshiatelluo FAIRMAIR / DET. Y. MIYAKE // Paratype / Sinogeotrupes taiwanus / Y. MIYAKE et YAMAYA, 1995’. 1 ex. ‘台湾台中関刀山 / 1993. V. 31 // Paratype / Sinogeotrupes taiwanus / Y. MIYAKE et YAMAYA, 1995’.

Current status. Phelotrupes (Sinogeotrupes) taiwanus (Miyake and Yamaya, 1995), see Nikolajev et al. (2016).

Remark. In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 3 exs. ‘Tattaka / Formosa / 10. Vi. 1965 / T. Shirozu // Paratype / Sinogeotrupes taiwanus / Y. MIYAKE et YAMAYA, 1995’. 1 ex. ‘(FORMOSA) / Mt Rata / Vi–Vii–1972 / L. F, Hang // Paratype / Sinogeotrupes taiwanus / Y. MIYAKE et YAMAYA, 1995’. 1 ex. ‘(FORMOSA) / Mt Rata / –Vii–1972 / L. F, Hang // Paratype / Sinogeotrupes taiwanus / Y. MIYAKE et YAMAYA, 1995’. 1 ♂ ‘[Taiwan] / 台中関刀山 = guandaoshan / 3–VI–1993 // Paratype / Sinogeotrupes taiwanus / Y. MIYAKE et YAMAYA, 1995’. 3 exs. ‘Paratype / Sinogeotrupes taiwanus / Y. MIYAKE et YAMAYA, 1995’.

Family Lucanidae
Subfamily Lucaninae
Genus Aegus

Aegus laevicollis nakanei Ichikawa & Imanishi

Aegus laevicollis nakanei Ichikawa & Imanishi, 1976: 9.

Note. The following paratype is deposited in RIEB (ex coll. Y. Kusui):

Paratype. 1 ex.: [[1♀ ‘Mt. Yonahadake, / Kunigami-son, / Is. Okinawa-Hontō, / 28. VI. 1972 (the date given in the original description is 16–17. VI. 1970), / HEIKICHI IRIE leg., // KUSUI // Paratype’]].

Current status. Aegus nakanei nakanei Ichikawa and Imanishi, 1976, see Huang and Chen (2017).

Family Scarabaeidae
Subfamily Aphodiinae
Genus Aphodius

Aphodius (Agoliinus) tanakai Masumoto

Aphodius (Agoliinus) tanakai Masumoto, 1981: 73–74.
Note. The following paratype is deposited in RIEB (ex coll. K. Masumoto):

**Paratype.** 1 ex.: ‘Nikko / Date: 23 V 1981 / K. MASUMOTO leg. // Paratype / Aphodius (Agr) / tanakai MASUMOTO’.

**Current status.** Agoliinus tanakai (Masumoto, 1981), see Dellacasa et al. (2016).

*Aphodius (Phaeaphodius) himalorectus* Ahrens & Stebnicka

*Aphodius (Phaeaphodius) himalorectus* Ahrens & Stebnicka, 1997: 12–13.

Note. The following paratypes are deposited in RIEB (ex coll. D. Ahrens):

**Paratypes.** 2 exs.: ‘Phalante 20. 3. / unt. Nebelwaldstufe / 2100–2300 m // PARA-TYPUS / Aphodius (Phaeaphodius) himalorectus sp. n. / det. D. AHRENS 1994’.

**Current status.** Phaeaphodius himalorectus (Ahrens and Stebnicka, 1997), see Dellacasa et al. (2016).

*Aphodius (Sinodiapterna) zeni* Ochi

*Aphodius (Sinodiapterna) zeni* Ochi, 1991: 53–55.

Note. The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: ‘SUNGKAN / C. TAIWAN / 29–V. 1987 / K. LAH // PARA-TYPE / Aphodius (Sinodiapterna) / zeni / OCHI 1991’.

**Current status.** Sinodiapterna zeni (Ochi, 1991), see Dellacasa et al. (2016).

Genus *Rhyparus*

*Rhyparus kitanoi* Miyake

Figure 1A

*Rhyparus kitanoi* Miyake, 1982: 65–67.

Note. The holotype and following specimen are deposited in RIEB (ex coll. Y. Miyake):

**Holotype (♂).** ‘C, Sata [KYUSHU] Japan / 25, VI 1971 / T. Kitano leg. // PARATYPE // Holotype: / Rhyparus / kitanoi / Y. MIYAKE, 1992’. (Fig. 1A)

**Type condition.** The right and left protarsus and the right antenna of the holotype are missing.

**Current status.** Rhyparus kitanoi kitanoi Miyake, 1982, see Ochi (2001).

**Remark.** In addition to the holotype mentioned above, the following specimen labeled as paratype is not designated in the original description: 1 ex.: ‘Sesonoura / Is. Shimokoshiki / Kagoshima-pref. / 18. VI. 1982 / S. Imasaka leg. // Paratype: Rhyparus / kitanoi / Y. MIYAKE, 1992’.
Subfamily Scarabaeinae

Genus *Caccobius*

*Caccobius bawangensis* Ochi, Kon & Kikuta

*Caccobius bawangensis* Ochi, Kon & Kikuta, 1997: 262–264.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: ‘Mt. Bawang / Sarawak S. / VIII. 1991 / M. Kon Coll. // PARATYPE / Caccobius / bawangensis OCHI, KON and KIKUTA’.

**Current status.** Valid species.

Genus *Copris*

*Copris* (*Microcopris*) *mindorensis* Ochi

*Copris* (*Microcopris*) *mindorensis* Ochi, 1992: 13.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: ‘MT. HALKON / IS. MINDRO / 28–XII. 1988 / D. MOHAGAN // PARATYPE / Copris / (Microcopris) / mindorensis / OCHI, 1992.

**Current status.** Valid species.

Genus *Onthophagus*

*Onthophagus setchan* Masumoto

*Onthophagus setchan* Masumoto, 1984: 80–81.

**Note.** The following paratype is deposited in RIEB (ex coll. K. Masumoto):

**Paratype.** 1 ex.: ‘FENGCHIFU / FORMOSA / 7–VII. 74. / T. OCHI // PARATYPE / Onthophagus / setchan / MASUMOTO (1984)’.

**Current status.** Valid species.

*Onthophagus (Parascatonomus) acuticollis sakishimanus* Nomura

*Onthophagus (Parascatonomus) acuticollis sakishimanus* Nomura, 1976a: 29.

**Note.** The following paratypes are deposited in RIEB (ex coll. S. Nomura):

**Paratypes.** 6 exs.: 3 ♂ ‘Kanpira / Iriomote Is. / Yaeyama Iss. / 12. VII. 1975 / R. YANO leg. // ♂ // Onthophagus (P) / acuticollis / sakishimanus / NOMURA (1976)’.

3 ♀ ‘Kanpira / Iriomote Is. / Yaeyama Iss. / 12. VII. 1975 / R. YANO leg. // ♀ // Onthophagus (P) / acuticollis / sakishimanus / NOMURA (1976)’.
Figure 1. Habitus of holotype specimens. A *Rhyparus kitanoi* (Miyake) B *Adoretus (Lepadoretus) ubonen sis* (Miyake, Yamaguchi et Aoki) C *Anomala flavoguttata* Miyake D *Anomala ohmomoi* Miyake, Yamaguchi et Aoki E *Anomala thailandiana* Miyake, Yamaguchi et Akiyama F *Callistethus isidai* Miyake G *Malaia castanoptera* Miyake H *Malaia macassara* Miyake.
**Current status.** *Parascatonomus* (*Necramator*) *acuticollis sakishimanus* (Nomura, 1976), see Ochi and Kon (2017).

**Onthophagus (Parascatonomus) murasakianus Nomura**

*Onthophagus (Parascatonomus) murasakianus* Nomura, 1976a: 30.

**Note.** The following paratype is deposited in RIEB (ex coll. S. Nomura):

**Paratype.** 1 ex.: ‘Kanpiira, / Iriomote Is. / Yaeyama Iss. / 12. VII 1975 / R. YANO leg. // PARATYPE / Onthophagus (P) / murasakianus / NOMURA (1976)’.

**Current status.** *Parascatonomus* (*Necramator*) *murasakianus* (Nomura, 1976), see Ochi and Kon (2017).

**Onthophagus (Parascatonomus) takedai Ochi & Araya**

*Onthophagus (Parascatonomus) takedai* Ochi & Araya, 1992: 99–100.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: ‘QUESON. N. P / IS. LUZON / 10–VIII. 1981 / K. SUGINO // PARATYPE / Onthophagus / (Parascatonomus) / takedai / OCHI et ARAYA, 1992’.

**Current status.** *Parascatonomus* (*Granulidorsum*) *takedai* (Ochi et Araya, 1992), see Ochi and Kon (2017).

**Onthophagus (Proagoderus) watanabei Ochi & Kon**

*Onthophagus (Proagoderus) watanabei* Ochi & Kon, 2002: 306–311.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: ‘SEPIROK / N. BORNEO / 4–VII. 1985 / M. KON // PARATYPE / Onthophagus / (Proagoderus) / watanabei / OCHI and KON. 2002’.

**Current status.** *Proagoderus watanabei* (Ochi et Kon, 2002), see Philips (2016).

**Onthophagus (Strandius) hiurai Ochi**

*Onthophagus (Strandius) hiurai* Ochi, 1984: 63–65.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: ‘PILU / Taiwan / 21, VIII, 1979 / K. Sugino leg. // PARATYPE / Onthophagus (St) / hiurai / OCHI (1984)’.
Current status. *Onthophagus (Phanaeomorphus) potanini hiurai* Ochi, 1984, see Ziani and Bezděk (2016).

Subfamily Rutelinae

Genus *Adoretus*

*Adoretus (Lepadoretus) ubonensis* Miyake, Yamaguchi & Aoki

Figure 1B

*Adoretus (Lepadoretus) ubonensis* Miyake, Yamaguchi, Aoki & Akiyama, 2002: 62–63.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘Shirinthorn (light) / Ubon Ratchatani / E–THAILAND / 27. Feb. 1999 / S. Yamaguchi and / T. Aoki leg. // No. 1 / ♂ // Holotype: / Adoretus / ubonensis // Holotype / Adoretus (Lepadoretus) ubonensis / Y. MIYAKE, YAMAGUCHI / et AOKI 2002’. (Fig. 1B)

**Type condition.** The left mesotarsus and the left metaleg of the holotype are missing.

**Current status.** Junior subjective synonym of *Adoretus compressus* (Weber, 1801), see Kobayashi (2018).

Genus *Anomala*

*Anomala flavoguttata* Miyake

Figure 1C

*Anomala flavoguttata* Miyake, 2000: 108–109.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♀). ‘Sapa=Chapa / N. Vietnam / 20. V. 1994 / N. KATSURA // Holotype: / Anomala / flavoguttata / Y. MIYAKE, 2000’. (Fig. 1C)

**Type condition.** The aedeagus of the holotype is pinned separately.

**Current status.** Valid species.

*Anomala ohmomoi* Miyake, Yamaguchi & Aoki

Figure 1D

*Anomala ohmomoi* Miyake, Yamaguchi, Aoki & Akiyama, 2002: 58–60.

**Note.** The holotype and the following paratypes are deposited in RIEB (ex coll. Y. Miyake):
Holotype (♂). ‘Ban Lao Kram / Mukdahan (light) / E–THAILAND / sawa / 8. Mar. 1999 / S. Yamaguchi and / T. Aoki leg. // Holo Type: / Anomala / ohmomoi // Holotype / Anomala ohmomoi / Y. MIYAKE, YAMAGUCHI / et AOKI 2002’. (Fig. 1D)

Paratypes. 4 exs.: ‘Ban Lao Kram / Mukdahan (light) / E–THAILAND / sawa / 8. Mar. 1999 / S. Yamaguchi and / T. Aoki leg. // Paratype / Anomala ohmomoi / Y. MIYAKE, YAMAGUCHI / et AOKI 2002’.

Current status. Valid species.

Anomala thailandiana Miyake, Yamaguchi & Akiyama
Figure 1E

Anomala thailandiana Miyake, Yamaguchi, Aoki & Akiyama, 2002: 60–61.

Note. The holotype is deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). ‘Don Far Huan (light) / Ubon Ratchathani / E–THAILAND / 17. Sep. 1999 / S. Yamaguchi and / M. Akiyama leg. [white label, front] // Apigoni / 5 [white label, back] // Holo Type / Anomala thailandiana / Y. MIYAKE, YAMAGUCHI / et AKIYAMA 2002’. (Fig. 1E)

Type condition. The aedeagus of the holotype is pinned separately.

Current status. Valid species.

Genus Callistethus

Callistethus isidai Miyake
Figure 1F

Callistethus isidai Miyake, 1987: 5–6.

Note. The holotype and the following paratype are deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). ‘[ Taiwan ] / Lishan to Pilu / 31–VII–1972 / Y. Miyake leg. // Holo Type: / Callistethus isidai / Y. MYAKE, 1987’. (Fig. 1F)

Paratype. 1 ex.: ‘[ Taiwan ] / Lishan to Pilu / 31–VII–1972 / Y. Miyake leg. // Paratype / Callistethus isidia / Y. MIYAKE, 1987’.

Type condition. The right and left metatarsi of the holotype are missing.

Current status. Callistethus plagiicollis isidai Miyake, 1987, see Zorn and Bezděk (2016).

Remark. The habitus photograph in the original description does not agree with the holotype. This is also the case with some other species described by Miyake. Apparently, he did not intend to provide the photographs of the holotypes. Also, as noted below, we were unable to trace some specimens illustrated in the original descriptions.
Genus *Kibakoganea*

*Kibakoganea ohtanii* Miyake & Muramoto

*Kibakoganea ohtanii* Miyake & Muramoto, 1992: 22–24.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 2 exs.: [1 ♂, 1 ♀ ‘Tam Dao / N. VIETNAM / 28–30, IV, 1991 (the date given in the original description is 28–30. III. 1991) / M. Fujioka and / R. Muramoto – leg. // PARATYPE / Kibakoganea / ohtanii / Y. MIYAKE et / MURAMOTO, 1992.’]].

**Current status.** Junior subjective synonym of *Kibakoganea sexmaculata* (Kraatz, 1900), see Miyake (2003).

Genus *Malaia*

*Malaia castanoptera* Miyake

Figure 1G

*Malaia castanoptera* Miyake, 2000: 112.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype (♂).** ‘Malino, Celebes / Indonesia / 21 Nov 1944 // malino / 2603.11.21 // Holotype: Malaia / castanoptera / Y. MIYAKE, 2000’. (Fig. 1G)

**Paratypes.** 7 exs.: 1 ♂, 3 ♀ ‘Malino, Celebes / Indonesia / 21 Nov 1944 // malino / 2603.11.21 // Paratype: Malaia / castanoptera / Y. MIYAKE, 2000’. 2 exs. ‘Malino, Celebes / Indonesia / 21 Nov 1944 // malino / 2603.11.21 // Paratype: Malaia / castanoptera / Y. MIYAKE, 2000’. 1 ex. ‘malino / 2603.11.21 // Paratype: Malaia / castanoptera / Y. MIYAKE, 2000’.

**Current status.** Valid species.

**Remark.** The habitus photo in the original description belongs to the female paratype with the label ‘Malino, Celebes / Indonesia / 21 Nov 1944 // malino / 2603.11.21’.

*Malaia cyanea* Miyake

*Malaia cyanea* Miyake, 1996: 38–39.

**Note.** The following paratypes are deposited is RIEB (ex coll. Y. Miyake):

**Paratypes.** 2 exs.: 1 ♂ ‘32 km from / Palopo / Surawesi / 10. VI. 1982 // Paratype: / Malaia cyanea / Y. MIYAKE, 1996’. 1 ♀ ‘Punchak–Lombanan / Mamasa, / S. SULAWESI / 1991. AUG. 10. / N. Kashiwai–leg. // Paratype: / Malaia cyanea / Y. MIYAKE, 1996’.

**Current status.** Valid species.
**Malaia macassara** Miyake

*Figure 1H*

*Malaia macassara* Miyake, 2000: 109–110.

**Note.** The holotype and the following paratype are deposited in RIEB (ex coll. Y. Miyake):

- **Holotype** (♂). ‘Lambbatter / Sulawesi / 23–25. VIII. 1999 / M. Takai // Holotype: Malaia / macassara / Y. MIYAKE, 2000’. (Fig. 1H)
- **Paratype.** 1ex.: 1 ♂ ‘Lambbatter / Sulawesi / 23–25. XII. 1999 / M. Takai leg. // Paratype: Malaia / macassara / Y. MIYAKE, 2000’.

**Type condition.** The left protarsus and metatarsus of the holotype are missing.

**Current status.** Valid species.

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**Malaia rufofemorata** Miyake

*Malaia rufofemorata* Miyake, 1996: 40–41.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

- **Paratypes.** 4 exs.: 1 ♂, 1 ♀ ‘Puncak, Palopo / VI–VII, 1989 / Central SULAWESI // Paratype: Malaia / rufofemorata / Y. MIYAKE, 1996’. 2 ♂ ‘Palu Palolo / VIII. 1990 / Central SULAWESI // Paratype: Malaia / rufofemorata / Y. MIYAKE, 1996’.

**Current status.** Valid species.

**Remark.** In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 2 ♂, 1 ♀ ‘Palolo, Palu / 01–10/XI. 1990 / native coll. / CELEBES // Paratype: Malaia / rufofemorata / Y. MIYAKE, 1996’.

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**Malaia sulawesi** Miyake

*Malaia sulawesi* Miyake, 1996: 41–42.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

- **Paratypes.** 58 exs.: 1 ♂ ‘Mt. Pedamaran / Tana Toraja / 1985. III–17 / South SULAWESI / Soma, K. leg. // Paratype: / Malaia / sulawesi / Y. MIYAKE, 1996’. 1 ex. ‘Puncak Palopo / 1989. III. 31 / Centr. CELEBES // Paratype: / Malaia / sulawesi / Y. MIYAKE, 1996’.
- 3 exs. ‘Palu Pulu / C. Sulawesi / II. 1989 // Paratype: / Malaia / sulawesi / Y. MIYAKE, 1996’.

**Current status.** Valid species.
**Malaia taoi Miyake**

*Malaia taoi* Miyake, 1996: 39–40.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 4 exs.: 1 ♂ ‘37 km from / Palopo C.- / Sulawesi / 9. IV. 1982 // Paratype: / Malaia / taoi / Y. MIYAKE, 1996’. 1 ♀ ‘32 km from / Palopo / Surawesi / 10. VI. 1982 // 37 km from / Palopo C.- / Sulawesi / 10. VI. 1982 // Paratype: / Malaia / taoi / Y. MIYAKE, 1996’. 1 ♂ ‘37 km from / Palopo C.- / Sulawesi / 11. IV. 1982 // Paratype: / Malaia / taoi / Y. MIYAKE, 1996’. 1 ♀ ‘32 km from / Palopo / Surawesi / 13. VI. 1982 // 37 km from / Palopo C.- / Sulawesi / 13. VI. 1982 // Paratype: / Malaia / taoi / Y. MIYAKE, 1996’.

**Current status.** Valid species.

**Malaia tondanoensis Miyake**

*Malaia tondanoensis* Miyake, 1996: 42–43.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 4 exs.: ‘Tondano / N. Sulawesi / 10–IV–1989 / Y. Miyake leg. // Paratype: / Malaia / tondanoensis / Y. MIYAKE, 1996’.

[[1 ex. ‘Tangkoko N. / N. Sulawesi / 10–III–1989 (the date given in the original description is 10–IV–1989) / Y. Miyake leg. // Paratype: / Malaia / tondanoensis / Y. MIYAKE, 1996’]]. [[2 exs. ‘Tondano / N. Sulawesi / 9–IV–1989 (the date given in the original description is 10–IV–1989) / Y. Miyake leg. // Paratype: / Malaia / tondanoensis / Y. MIYAKE, 1996’]].

**Current status.** Valid species.

**Malaia toraja Miyake**

Figure 2A

*Malaia toraja* Miyake, 2000: 110–111.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype (♂).** ‘Mt. Pedamaran / Tana Traja / 20–X. 1983 / K. SOHMA lgd. / South SULAWESI // Holotype: Malaia / toraja / Y. MIYAKE, 2000’. (Fig. 2A)

**Paratypes.** 27 exs.: 1 ♂ ‘Mt. Pedamaran / Tana Traja / 20–X. 1983 / K. SOHMA lgd. // Paratype: Malaia / toraja / Y. MIYAKE, 2000’. 9 exs. ‘Mt. Pedamaran / Tana Traja / 20–X. 1983 / K. SOHMA lgd. // Paratype: Malaia / toraja / Y. MIYAKE, 2000’. 2 exs. ‘Mt. Pedamaran / S. Sulawesi / 20. X. 1983 / K. Soma leg. // Paratype: Malaia / toraja / Y. MIYAKE, 2000’. 8 exs. ‘Puncak, Palopo / VI–VII, 1989 / Central SULAWESI // Paratype: Malaia / toraja / Y. MIYAKE, 2000’. 2 exs. ‘Central
SULAWESI / Puncak, Palopo / VI–VII, 1989 // Paratype: Malaia / toraja / Y. MIYAKE, 2000’. 1 ♂ ‘Puncak Palopo / 1989. / Centr. CELEBES // SI [yellow label] // Paratype: Malaia / toraja / Y. MIYAKE, 2000’. 4 exs. ‘Puncak Palopo / 1989. / Centr. CELEBES // SI [yellow label] // Paratype: Malaia / toraja / Y. MIYAKE, 2000’.

Current status. Valid species.

Remark. The habitus photo in the original description belongs to the female paratype with the label ‘Mt. Pedamaran / Tana Toraja / S. Sulawesi / 7, VIII, 1988 / K. Soma leg.’.

In addition to the paratypes listed above, the following specimens labeled as the paratypes are not designated in the original description: 1 ♀ ‘Mt. Pedamaran / Tana Toraja / S. Sulawesi / 7, VIII, 1988 / K. Soma leg. // SI [yellow label] // Paratype: Malaia / toraja / Y. MIYAKE, 2000’. 1 ex. ‘(Pulu Pulu) / C. Sulawesi / INDONESIA / Dec. 1988 // [yellow label] // Paratype: Malaia / toraja / Y. MIYAKE, 2000’. 2 exs. ‘Puncak, Palopo / Centr. CELEBES / 1989. I / INDONESIA // [yellow label] // Paratype: Malaia / toraja / Y. MIYAKE, 2000’. 1 ex. ‘Puncak Palopo / 1989. III. 31 / Centr. CELEBES // Paratype: Malaia / toraja / Y. MIYAKE, 2000’. 3 exs. ‘Palu, Palolo / VII 1989 / Central SULAWESI // Paratype: Malaia / toraja / Y. MIYAKE, 2000’.

Genus Mimela

Mimela kitanoi Miyake

Figure 2B

Mimela kitanoi Miyake, 1987: 7–8.

Note. The holotype is deposited in RIEB (ex coll. K. Wada):

Holotype (♀). ‘Larashan / Hsinchu Hs. / VI. 1975, / Fang leg // Holotype: / Mimela kitanoi / Y. MIYAKE, 1987 // Kaoru WADA / Collection 2001’. (Fig. 2B)

Current status. Junior subjective synonym of Mimela flavocincta Lin, 1966, see Zorn and Bezděk (2016).

Mimela marginipennis Miyake

Figure 2C

Mimela marginipennis Miyake, 1994: 151.

Note. The holotype is deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). ‘[Borneo] / Crocker Range / 1800–1400m alt. / nr. Keningau C. / X. 1988. M. ITOI leg. // Holotype: / Mimela / marginipennis / Y. MIYAKE, 1994’. (Fig. 2C)

Type condition. The aedeagus of the holotype is pinned separately, and the left mesotarsus is missing.

Current status. Junior subjective synonym of Mimela margarita Arrow, 1910, see Wada (2001).
Figure 2. Habitus of holotype and neotype specimens. A Malaia toraja Miyake B Mimela kitanoi Miyake C Mimela marginipennis Miyake D Spinanomala moritai Miyake E Peltonotus morio Burmeister F Peltonotus morio sawaii Miyake G Apogonia ohmomoi Miyake H Apogonia ovata Miyake et Yamaguchi.
**Mimela sawaii Miyake**

*Mimela sawaii* Miyake, 1994: 149–150.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 1 ex.: 1 ♂ ‘Crocker Range / (1000–1400 m) / Nr. Keningau C. / N. Borneo, – / 15–V–1989 // [blue label] // Paratype: / Mimela / sawaii / Y. MIYAKE, 1994’.

**Current status.** Junior subjective synonym of *Mimela pallidicauda* Arrow, 1910, see Wada (2001).

**Mimela suspecta Miyake**

*Mimela suspecta* Miyake, 1994: 150.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 2 ex.: 1 ♂ ‘Mt. Trus Madi / (SW Slopa 1200m alt.) / Sabah, MALAYSIA / 14–IV–1993 / Minoru SAWAI leg. // Paratype: / Mimela / suspecta / Y. MIYAKE, 1994’. [[1 ex. ‘Mt. Trus Madi / (SW Slopa 1200m alt.) / Sabah, MALAYSIA / 18–IV–1993 (the date given in the original description is 4–IV–1993) / Minoru SAWAI leg. // [yellow label] // Paratype: / Mimela / suspecta / Y. MIYAKE, 1994’]].

**Current status.** Valid species.

**Remark.** In addition to the paratypes mentioned above, the following specimen labeled as paratype is not designated in the original description: 1 ♂ ‘Trus Madi Mts. / near Keningau / Saba MALAYSIA / 1993. iv. 17–30. // F // Paratype: / Mimela / suspecta / Y. MIYAKE, 1994’.

**Genus Popillia**

**Popillia iwasei Miyake**

*Popillia iwasei* Miyake, 1996: 43–44.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 6 exs.: 2 ♀ ‘Puncak, Palopo / Centr. CELEBES / 1989. I / INDO-NESIA // Paratype: / Popillia / iwasei / Y. MIYAKE, 1996’. 2 ♀ ‘Puncak Palopo / C. Sulawesi / 1. 1989 // Paratype: / Popillia / iwasei / Y. MIYAKE, 1996’. 1 ♀ ‘Puncak Palopo / C. Sulawesi / 1989. V / INDONESIA // SI [yellow label] // Paratype: / Popillia / iwasei / Y. MIYAKE, 1996’. [[1 ♂ ‘Palolo (the locality given in the original description is Palopo) / II. 1991 (the date given in the original description and Telnov and Zorn (2019) are I. 1989) // Paratype: / Popillia / iwasei / Y. MIYAKE, 1996’]].

**Current status.** Valid species.
Genus *Spilopopillia*

*Spilopopillia rugosa* Miyake

*Spilopopillia rugosa* Miyake, 1989a: 180–181.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 18 exs.: [(1 ex. ‘[ Malaya ] / Fraser’s Hill / 29–III–1977 (the date given in the original description is 28. III. 1977) / Y. Miyake leg. // Paratype: / Spilopopillia / rugosa / Y. MIYAKE, 1989’)]. [(1 ex. ‘[ Malaya ] / Fraser’s Hill (the locality given in the original description is Fraser’s Hill) / 30–III–1977 (the date given in the original description is 28. III. 1977) / Y. Miyake leg. // Paratype: / Spilopopillia / rugosa / Y. MIYAKE, 1989’)]. 6 exs. ‘[ Malaya ] / Tanah Rata / 30–III–1974 / Y. Miyake leg // Paratype: / Spilopopillia / rugosa / Y. MIYAKE, 1989’]. 9 exs. ‘TANARATA / MALAYA / 30 III 1974 / Y. Miyake leg. // Paratype: / Spilopopillia / rugosa / Y. MIYAKE, 1989’. [(1 ex. ‘Gentig / Hiland (the locality given in the original description is Genting Highland) MALAYA / 5. IV . 1974 (the date given in the original description is 5. IV. 1975) / Y Miyake leg // Paratype: / Spilopopillia / rugosa / Y. MIYAKE, 1989’)].

**Current status.** Valid species.

**Remark.** In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 8 exs. ‘Tanah Rata / MALAYA / 1. III. 1977 / Y. Miyake // Paratype: / Spilopopillia / rugosa / Y. MIYAKE, 1989’. 5 exs. ‘TANARATA / MALAYA / 28, 29, 30 III 1974 / Y. Miyake leg. // Paratype: / Spilopopillia / rugosa / Y. MIYAKE, 1989’. 1 ex. ‘84. IV // Paratype: / Spilopopillia / rugosa / Y. MIYAKE, 1989’.

Genus *Spinanomala*

*Spinanomala moritai* Miyake

Figure 2D

*Spinanomala moritai* Miyake, 1996: 38.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype (♂).** ‘Tanah Rata / MALAYA / IV. 1984 / M. Hata // Holotype: / Spinanomala / moritai / Y. MIYAKE, 1996’. (Fig. 2D)

**Paratypes.** 11 exs.: 1 ex. ‘Tanah Rata / MALAYA / I–II. 1973 / MORITA, Kozo // Paratype: Spinanomala / moritai / Y. MIYAKE, 1996’. 2 ♂, 3 ♀ ‘Tanah Rata / MALAYA / 1. III. 1977 / Y. Miyake // Paratype: Spinanomala / moritai / Y. MIYAKE, 1996’. 3 ♂, 2 ♀ ‘Tanah Rata / MALAYA / IV. 1984 / M. Hata // Paratype: Spinanomala / moritai / Y. MIYAKE, 1996’.

**Type condition.** The aedeagus of the holotype is pinned separately and the right metaleg is missing.
Current status. Valid species.

Remark. The collecting data of the specimen labelled as the holotype do not match the original description. There are two male paratypes (‘Tanah Rata / MALAYA / 1. III. 1977 / Y. Miyake // Paratype: Spinanomala / moritai / Y. MIYAKE, 1996’) that match the holotype data.

In addition to the paratypes mentioned above, the following specimen labeled as the paratype is not designated in the original description: 1 ex. ‘クレーバーヒル= furêzâhiru / MALAYA / 4 – 6. IV. 1977 / M. Hata // Paratype: Spinanomala / moritai / Y. MIYAKE, 1996’.

Subfamily Dynastinae
Genus Papuana

_Papuana timorensis_ Miyake & Yamaya

_Papuana timorensis_ Miyake & Yamaya, 1999: 103–104.

Note. The following paratype is deposited in RIEB (ex coll. Y. Miyake):

Paratype. 1 ex.: 1 ♂ ‘Timor Is. / Indonesia / V. 1993 / Native Coll. // Timor / Is. [aedeagus mount] // Paratype: / Papuana / timorensis YAMAYA / Y. MIYAKE, 1999’.

Current status. Valid species.

Genus Peltonotus

_Peltonotus morio_ Burmeister

Figure 2E

_Peltonotus morio_ Burmeister, 1847: 75.

Note. The neotype is deposited in RIEB (ex coll. K. Wada):

Neotype (♀). ‘NEPAL・HIMALAYA / 10. 5. 1993 Chhachok Madi– / Khola/ Gandaki (Kaski– / Destr.) 1300m lg: D. Ahrens //Peltonotus / morio Burn. / det: D. Ahrens 1997 // Neotype / Peltonotus / morio Burmeister, 1847 / Jameson and Wada, 2004’. (Fig. 2E)

Type condition. The aedeagus of the neotype is pinned separately.

Current status. Valid species.

Remark. The neotype was designated by Jameson and Wada (2004).

_Peltonotus morio sawaii_ Miyake

Figure 2F

_Peltonotus morio sawaii_ Miyake, 2000: 112–113.
**Note.** The holotype and the following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype (♂).** ‘Doi Suthep / Chieng Mai / N–THAILAND / 22. V. 1983 / leg. M. Sawai // P. morio / Burmi. [white label, front] // Cameron / Highland / Pahang [white label, back] // Holotype: Peltonotus / morio sawaii / Y. MIYAKE, 2000’. (Fig. 2F)

**Paratypes.** 4 exs.: 2 ♂, 1 ♀ ‘Doi Suthep / Chieng Mai / N–THAILAND / 22. V. 1983 / leg. M. Sawai // Paratype: Peltonotus / morio sawaii / Y. MIYAKE, 2000 // P. morio / Burmeister’. 1 ♀ ‘Doi Suthep / Chieng Mai / N–THAILAND / 22. V. 1983 / leg. M. Sawai // Paratype: Peltonotus / morio sawaii / Y. MIYAKE, 2000’.

**Type condition.** The aedeagus of the holotype is pinned separately.

**Current status.** Junior subjective synonym of *Peltonotus morio* Burmeister, 1847, see Krell and Bezděk (2016).

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*Peltonotus podocrassus* Jameson & Wada

*Peltonotus podocrassus* Jameson & Wada, 2004: 34–37.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 7 exs.: 2 exs. ‘[Malaya] / Tanah Rata / 30–III–1976 / Y. Miyake leg. // Paratype: Peltonotus peninsularis / Y. MIYAKE, 2000 // Paratype / Peltonotus podocrassus / Jameson and Wada, 2004’. 1 ♂ ‘39 miles from / Tapah, Malaya / 30–III–1976 / Y. Miyake leg. // Paratype: Peltonotus peninsularis / Y. MIYAKE, 2000 // Paratype / Peltonotus podocrassus / Jameson and Wada, 2004’. 1 ♂ ‘TANARATA / MALAYA / 30. III. 1976 / Y. Miyake leg. // Paratype: Peltonotus peninsularis / Y. MIYAKE, 2000 // Paratype / Peltonotus podocrassus / Jameson and Wada, 2004’. 1 ♂ ‘V. R.〔C. H.〕 / Malaya / 21. III. 1978 // 46 // Paratype: Peltonotus peninsularis / Y. MIYAKE, 2000 // Paratype / Peltonotus podocrassus / Jameson and Wada, 2004’. 1 ex. [Malaya] / Tanah Rata / 1–IV–1984 / Y. Miyake leg. // Paratype: Peltonotus peninsularis / Y. MIYAKE, 2000 // Paratype / Peltonotus podocrassus / Jameson and Wada, 2004’. 1 ex. ‘TANARATA / MALAYA / 1. IV. 1984 / Y. Miyake // Paratype: Peltonotus peninsularis / Y. MIYAKE, 2000 // Paratype / Peltonotus podocrassus / Jameson and Wada, 2004’.

**Current status.** Valid species.

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*Peltonotus sakaii* Miyake & Yamaya

*Peltonotus sakaii* Miyake & Yamaya, 1994: 39–40, 42.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 1 ex.: ‘Mt. Serapi / SARAWAKU / 1991/III. // 20 // Paratype: / Peltonotus sakaii / Y. MIYAKE et YAMAYA, 1994 // Peltonotus / similis Arrow, 1931 / det. Kaoru Wada, 2004’.
Current status. Junior subjective synonym of *Peltonotus similis* Arrow, 1931, see Krajcik (2012).

Remark. In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 1 ♂ ‘Mt. Serapi / Kuching, Sarawak / IX. 1990 / BORNEO // Paratype: / Peltonotus sakaii / Y. MIYAKE et YAMAYA, 1994 // Peltonotus / similis Arrow, 1931 / det. Kaoru Wada, 2004’. 1 ex. ‘Lembah Anai / W. Sumatra / VI. 1990 / INDONESIA // [yellow label] // Paratype: / Peltonotus sakaii / Y. MIYAKE et YAMAYA, 1994 // Peltonotus / similis Arrow, 1931 / det. Kaoru Wada, 2004’. 1 ♂ ‘Kimanis Road / Near Keningau / N. Borneo / 3–V–1994 // Paratype: / Peltonotus sakaii / Y. MIYAKE et YAMAYA, 1994 // Peltonotus / similis Arrow, 1931 / det. Kaoru Wada, 2004’. 2 exs. ‘Kimanis Road / Near Keningau / N. Borneo / 3–V–1994 // Paratype: / Peltonotus sakaii / Y. MIYAKE et YAMAYA, 1994 // Peltonotus / similis Arrow, 1931 / det. Kaoru Wada, 2004’.

*Peltonotus sulawesiensis* Wada

*Peltonotus sulawesiensis* Wada, 1990: 1–2.

Note. The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

Paratypes. 4 exs.: ‘Tondano N. Celebes / INDONESIA / V 1988 / leg. N. Nishikawa // PARATYPE / Peltonotus sulawesiensis / Kaoru WADA, 1990’.

Current status. Junior subjective synonym of *Neohyphus celebesus* Heller, 1896, see Kuijten (1994).

Subfamily Melolonthinae
Genus *Amiserica*

*Amerisca rufidula* Nomura

*Amiserica rufidula* Nomura, 1974: 84.

Note. The following paratypes are deposited in RIEB (ex coll. S. Nomura):

Paratypes. 2 exs.: 1 ♂ ‘Li-shan / Taiwan / 29. VII. 1974 / Y. Miyake // ♂ // PARATYPE / Amiserica / rufidula / NOMURA (1974)’. 1 ♂ ‘Li-shan / Taiwan / 1. VIII. 1974 / Y. Miyake // ♂ // PARATYPE / Amiserica / rufidula / NOMURA (1974)’.

Current status. Valid species.

Genus *Apogonia*

*Apogonia fuijokai* Miyake & Yamaya

*Apogonia fuijokai* Miyake & Yamaya, 1997: 6–7.
Note. The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 1 ex.: ‘Flores Is. / Indonesia / May. 1995 // Y // Paratype: / Apogonia fujiokai / Y. MIYAKE et YAMAYA, 1997’.

**Current status.** Valid species.

### Apogonia fusciventris Miyake & Yamaya

*Apogonia fusciventris* Miyake & Yamaya, 1997: 5–6.

Note. The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 1 ex.: ‘Vangvieng / P. Vietiane / LAO. P. D. R. / 25–26. MAY. 1994. / K. Miura–leg. // Y // Paratype: Apogonia / fuscovenris / Y. MIYAKE et YAMAYA, 1997’.

**Current status.** Senior subjective synonym of *Apogonia striatipennis* Frey, 1971, see Kobayashi (2010).

**Remark.** The species name on the paratype label is ‘*fuscovenris*’, which is invalid. Probably, the name was confused with *fusciventris* by Y. Miyake.

### Apogonia hongkongica Miyake

*Apogonia hongkongica* Miyake, 1989b: 38–39.

Note. The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 11 exs.: 1 ♂ ‘Hong Kong / China / C. K. Yu / 1974. V. [white label, front] // Native Collector / legt. [white label, back] // Paratype: / Apogonia / hongkongica / Y. MIYAKE, 1989’. 1 ♂ ‘Hong Kong / China / V. 1974 / C. K. Yu [white label, front] // Legt. / Native / Collector [white label, back] // Paratype: / Apogonia / hongkongica / Y. MIYAKE, 1989’. 1 ♂ ‘Hong Kong / China / V. 1974 / C. K. Yu [white label, front] // Native Collector [white label, back] // Paratype: / Apogonia / hongkongica / Y. MIYAKE, 1989’. 1 ♀ ‘♀ / Hong Kong / China / V. 1974 / C. K. Yu [white label, front] // Legt. / Native / Collector // Paratype: / Apogonia / hongkongica / Y. MIYAKE, 1989’. 1 ♀ ‘♀ / Hong Kong / China / V. 1974 / C. K. Yu [white label, front] // Native / Collector / legt. // Paratype: / Apogonia / hongkongica / Y. MIYAKE, 1989’. 1 ♀ ‘♀ / Hong Kong / From C. K. Yu / Paratype: / Apogonia / hongkongica / Y. MIYAKE, 1989’. 1 ex. ‘Hong Kong / China / V. 1974 / C. K. Yu [white label, front] // Legt. / native / Collector [white label, back] // Paratype: / Apogonia / hongkongica / Y. MIYAKE, 1989’. 2 exs. ‘Hang Kong / China / V. 1974 / C. K. Yu Col [white label, front] // Native / Collector / legt. / Paratype: / Apogonia / hongkongica / Y. MIYAKE, 1989’. 2 exs. ‘Hong Kong / V. 1974 / From C. K. Yu // Paratype: / Apogonia / hongkongica / Y. MIYAKE, 1989’.

**Current status.** Valid species.

**Remark.** In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 1ex. ‘Hong Kong / 1975 / From. C. K-Yu // Paratype: Apogonia / hongkongica / Y. MIYAKE, 1989’.
1 ♀ ‘Hong Kong / ♀ 1975 [white label, front] // from / C. K. Yu [white label, back] // Paratype: / Apogonia / hongkongica / Y. MIYAKE, 1989’.

**Apogonia inconstans** Kobayashi & Bezděk

*Apogonia inconstans* Kobayashi & Bezděk, 2011: 64–65.

**Note.** The following paratypes are deposited in RIEB (ex coll. A. Bezděk):

**Paratypes.** 4 exs.: 1 ♂ ‘1985. 5. 18–19. / Wieng Ko Sai Nat. / Park, Phrae Prov., / N-Thailand / Col. S. Ohmomo [white label, front] // 5/18 夜= yoru [white label, back] // PARATYPE / *Apogonia* / inconstans / Kobayashi et Bezděk, 2011’. 1 ex. ‘1985. 5. 18–19. / Wieng Ko Sai Nat. / Park, Phrae Prov., / N-Thailand / Col. S. Ohmomo [white label, front] // 5/18 夜= yoru [white label, back] // PARATYPE / *Apogonia* / inconstans / Kobayashi et Bezděk, 2011’. 1 ex. ‘1985. 5. 18–19. / Wieng Ko Sai Nat. / Park, Phrae Prov., / N-Thailand / Col. S. Ohmomo [white label, front] // 夜= yoru 5/18 [white label, back] // PARATYPE / *Apogonia* / inconstans / Kobayashi et Bezděk, 2011’. 1 ex. ‘1985. 5. 18–19. / Wieng Ko Sai Nat. / Park, Phrae Prov., / N-Thailand / Col. S. Ohmomo [white label, front] // 夜= yoru 5/18 [white label, back] // PARATYPE / *Apogonia* / inconstans / Kobayashi et Bezděk, 2011’.

**Current status.** Valid species.

**Apogonia ohmomoi** Miyake

Figure 2G

*Apogonia ohmomoi* Miyake, 1989: 177–178.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype (♂).** ‘1985. 5. 18–19. / Wieng Ko Sai Nat. / Park, Phrae Prov., / N-Thailand / Col. S. Ohmomo [white label, front] // 夜= yoru 5/18 [white label, back] // 14 / Holotype: / Apogonia / scabra / Y. MIYAKE // Apogonia ohmomoi / Miyake, 1989 / HOLOTYPUS, ♂ / A. Bezděk det. 2011’. (Fig. 2G)

**Type condition.** The aedeagus of the holotype is pinned separately, and the right antenna, right and left protarsus, right mesoclaw, left mesotarsus, right metatarsus and mesonotum are missing.

**Current status.** Valid species.

**Remark.** The label ‘*Apogonia scabra*’ was apparently accidentally put by Miyake.

**Apogonia ovata** Miyake & Yamaguchi

Figure 2H

*Apogonia ovata* Miyake & Yamaguchi, 1998: 25–27.
Note. The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype (♂).** ‘Kaeng Tana / Khong Chiam / Ubon Ratthathani / [NE-THAILAND] / 29. Aug. 1997 / S. Yamaguchi leg. // Holotype / *Apogonia ovata* / Y. MIYAKE et YAMAGUCHI 1998’. (Fig. 2H)

**Type condition.** The aedeagus of the holotype is pinned separately.

**Current status.** Senior synonym of *Apogonia miyakei* Bezděk, 2004, see Bezděk (2004).

*Apogonia terminalis* Miyake, Yamaguchi & Akiyama

Figure 3A

*Apogonia terminalis* Miyake, Yamaguchi & Akiyama, 2002: 56–58.

Note. The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype (♂).** ‘Don Far Huan (light) / Ubon Ratchathani / E-THAILAND / 17. Sep. 1999 / S. Yamaguchi & / M. Akiyama leg. // Holotype / *Apogonia terminalis* / Y. MIYAKE, YAMAGUCHI / et AKIYAMA 2002’. (Fig. 3A)

**Paratypes.** 4exs.: 1 ♂ ‘Ban Lao Kram / Mukdahan (light) / NE-THAILAND / 5. Sep. 1999 / S. Yamaguchi & / M. Akiyama leg. // Paratype / *Apogonia terminalis* / Y. MIYAKE, YAMAGUCHI / et AKIYAMA 2002’. 3 ♀ ‘Don Far Huan (light) / Ubon Ratthathani / E-TAILAND / 17. Sep. 1999 / S. Yamaguchi & / M. Akiyama leg. // ♀ // Paratype / *Apogonia terminalis* / Y. MIYAKE, YAMAGUCHI / et AKIYAMA 2002’.

**Type condition.** The aedeagus of the holotype is pinned separately, and the left proclaw, right and left mesotarsus, right metaclaw and left metatarsus are missing.

**Current status.** Valid species.

*Apogonia unidentata* Miyake, Yamaguchi & Akiyama

Figure 3B

*Apogonia unidentata* Miyake, Yamaguchi & Akiyama, 2002: 55–56.

Note. The holotype and following paratypes are deposited in RIEB (ex coll. Miyake):

**Holotype (♂).** ‘Ban Lao Kram / Mukdahan (light) / NE-THAILAND / 5. Sep. 1999 / S. Yamaguchi & / M. Akiyama leg. // Holotype / *Apogonia unidentata* // Holotype / *Apogonia unidentata* / Y. MIYAKE, YAMAGUCHI / et AKIYAMA 2002’. (Fig. 3B)

**Paratypes.** 6 exs.: 4exs. ‘Ban Lao Kram / Mukdahan (light) / NE-THAILAND / 5. Sep. 1999 / S. Yamaguchi & / M. Akiyama leg. // Paratype / *Apogonia unidentata* / Y. MIYAKE, YAMAGUCHI / et AKIYAMA 2002’. 1 ex. ‘Ban Lao Kram / Mukdahan (light) / NE-THAILAND / 5. Sep. 1999 / S. Yamaguchi & / M. Akiyama leg. // 63 // Paratype / *Apogonia unidentata* / Y. MIYAKE, YAMAGUCHI / et AKIYAMA 2002’. 1 ex. ‘Ban Lao Kram / Mukdahan (light) / NE-THAILAND / 14. Sep. 1999 / S.
Yamaguchi & M. Akiyama leg. / シミレア = shimirea // Paratype / Apogonia unidentata / Y. MIYAKE, YAMAGUCHI et AKIYAMA 2002’.

**Type condition.** The aedeagus of the holotype is pinned separately, and the right protarsus and right and left metatarsi are missing.

**Current status.** Valid species.

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**Genus Dichelomorpha**

*Dichelomorpha sublineata* Miyake

Figure 3C

*Dichelomorpha sublineata* Miyake, 1994: 140–141.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

- **Holotype** (♂). ‘Is. Tioman, east of / Malay Pennisular March. 1993, nat, col // 1 [aedeagus mount] // Holotype: / Dichelomorpha / sublineata / Y. MIYAKE, 1994’. (Fig. 3C)

- **Paratypes.** 34 exs.: 10 ♂ ‘Is. Tioman, east of / Malay Pennisular / March. 1993. nat, col // Paratype: / Dichelomorpha / sublineata / Y. MIYAKE, 1994’. 14 exs. ‘Is. Tioman, east of / Malay Pennisular / March. 1993. nat, col // Paratype: / Dichelomorpha / sublineata / Y. MIYAKE, 1994’. 1 ex. ‘Is. Tioman, east of / Malay Pennisular / March. 1993. nat, col // 11 // Paratype: / Dichelomorpha / sublineata / Y. MIYAKE, 1994’. 1 ex. ‘Is. Tioman, east of / Malay Pennisular / March. 1993. nat, col // 4 // Paratype: / Dichelomorpha / sublineata / Y. MIYAKE, 1994’. [8 exs. ‘Tioman Is. / E. of Malaya / III–1933 (the date given in the original description is III–1993), W. // Paratype: / Dichelomorpha / sublineata / Y. MIYAKE, 1994’].

**Type condition.** The aedeagus of the holotype is pinned separately. The right mesotarsus is missing.

**Current status.** Valid species.

**Remark.** Miyake (1994) did not provide a photograph of the holotype. Apparently he provided a photograph of a paratype, but we could not trace that specimen.

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**Genus Holomelia**

*Holomelia gigantea* Miyake

Figure 3D

*Holomelia gigantea* Miyake, 1996: 35–36.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake).

- **Holotype** (♂). ‘19 miles from / Tapah, Malaya / 1–II–1974 / Y. Miyake leg [white label, front] // Wu TET KONG / legt. [white label, back] // 29 • 5 // 家= ie [aedeagus mount] // Holotype: / Holomelia / gigantea / Y. MIYAKE, 1996’. (Fig. 3D)
Paratypes. 2 exs.: 1 ♂ ‘Cameron H. / MALAYA / Jan–Feb 1974 / Y. Miyake leg. // 30.5 // Paratype: Holomelia gigantea / Y. MIYAKE, 1996 // 19 miles from / Tapah, Malaya / 1–II–1974 [white label, front] // Wu Tet Kong legt. [white label, back]’. 1 ex. ‘19 miles from / Tapah, Malaya / 1–II–1974 [white label, front] // Wu Tet Kong legt. [white label, back] // Paratype: Holomelia gigantea / Y. MIYAKE, 1996’.

Type condition. The aedeagus of the holotype is pinned separately.

Current status. Valid species.

Remark. Miyake (1996) did not provide a photograph of the holotype. Apparently he provided a photograph of a paratype, but we could not trace that specimen.

Genus Holotrichia

Holotrichia loochooana umebayashii Miyake

Figure 3E

Holotrichia loochooana umebayashii Miyake, 1986a: 1–2.

Note. The holotype is deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). ‘(Loo-Choo) Okinoerabuzima / 21. IV. 1957. / K. Umebayashi // 7 [white label, mounted on a part of tarsus] // HOLOTYPE / Holotrichia / loochooana / umebayashii / Y. MIYAKE, 1986’. (Fig. 3E)

Type condition. The aedeagus of the holotype is pinned separately. The left protarsus and the right and left metatarsus are missing.

Current status. Junior subjective synonym of Nigrotrichia loochooana okinawana (Nomura, 1964), see Matsumoto (2016).

Remark. The collecting date in the original description is 1.V.1957, which disagrees with the label data.

Holotrichia yamayai Miyake & Yamaguchi

Figure 3F

Holotrichia yamayai Miyake & Yamaguchi, 1998: 27–28.

Note. The holotype and following paratype are deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). ‘North Thailand / Chiangmai-Saraphee / 15th, June, 1996 / Native collector // Holotype / Holotrichia yamayai / Y. MIYAKE et YAMAGUCHI 1998’. (Fig. 3F)

Paratype. 1 ex.: 1 ♀ ‘Kaeng Tana / Khong Chiam / Ubonratohathani / [NE-THAILAND ] / 27. Aug. 1997 / S. Yamaguchi leg. // Paratype / Holotrichia yamayai / Y. MIYAKE et YAMAGUCHI 1998’.

Type condition. The aedeagus of the holotype is pinned separately.

Current status. Valid species.
Figure 3. Habitus of holotype specimens. A Apogonia terminalis Miyake, Yamagushi et Akiyama B Apogonia unidentata Miyake, Yamaguchi et Akiyama C Dichelomorpha sublineata Miyake D Holomelia gigantea Miyake E Holotrichia loochoana umebayashii Miyake F Holotrichia yamayat Miyake et Yamaguchi G Hoplia choui Miyake H Hoplia nakanei Miyake.
Genus *Hoplia*

*Hoplia choui* Miyake

Figure 3G

*Hoplia choui* Miyake, 1986b: 203–204.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘Sozan / Formosa / 26. V. 1940 / Coll. M. Uno // HOLOTYPE / Hoplia / Choui Y. MIYAKE / 1986’. (Fig. 3G)

**Type condition.** Abdomen only.

**Current status.** Valid species.

**Remark.** Most part of the holotype specimen was destroyed by *Anthrenus verbasci*.

*Hoplia nakanei* Miyake

Figure 3H

*Hoplia nakanei* Miyake, 1986b: 207.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype** (♂). ‘(Taiwan ) / Jibbon / 2. iv. 1970 / Y. Miyake // 1 // HOLOTYPE / Hoplia / nakanei Y. MIYAKE’. (Fig. 3H)

**Paratypes.** 29 exs.: 4 exs. ‘[Taiwan ] / 六亀= liugui, 石山= shi shan / 9–VI–1976 / Y. Miyake leg. // Paratype / Hoplia / nakanei / Y. Miyake, 1986’. 5 exs. ‘[Taiwan ] / Liukuei 石山= shi shan / 9–VI–1976 / Y. Miyake leg. // Paratype / Hoplia / nakanei / Y. Miyake, 1986’. 1 ex. ‘[Taiwan ] / 六亀= liugui, 石山= shi shan / 9–VI–1976 / 陳文竜= chen wenzhao leg. // Paratype / Hoplia nakanei / Y. Miyake, 1986’. 4 exs. ‘[Taiwan ] / Baibara / –V–1963 / T. Shirozu leg. // Paratype / Hoplia / nakanei / Y. Miyake, 1986’. 1 ex. ‘[Taiwan ] / Baibara / –V–1963 / Shirozu leg. // Paratype / Hoplia/ nakanei / Y. Miyake, 1986’. 1 ex. ‘[Taiwan ] / Baibara /–V–1963 / T. Shirozu // Paratype: Hoplia / nakanei / Y. Miyake, 1986’. 1♂ ‘六亀= liugui, 石山= shi shan / alt. 2000 m / 9. VI. 1976 // Paratype: Hoplia / nakanei / Y. MIYAKE, 1986’. 1 ex. ‘FENCHIFO / FORMOSA / 24. V. 1975 / K. MATSUDA // Paratype: Hoplia nakanei / Y. MIYAKE, 1986’. 1 ex. ‘Swakang / Taiwan / 15. VI. 1970 / Fukuda // Paratype: Hoplia nakanei / 1986. Y. MIYAKE’. 1♂ ‘NANSHANCHI / TAIWAN / 1. IV. 1970 / H. NOMURA // PARATYPE / Hoplia / nakanei / Y. MIYAKE, 1986’. [[4 exs. ‘[Taiwan ] / Baibara / V. 1965 (the date given in the original description is V. 1963) / T. Shirozu // Paratype / Hoplia nakanei / Y. Miyake’]]. [[2 exs. ‘[Taiwan ] / Baibara / V. 1965 (the date given in the original description is V. 1963) / T. Shirozu // Paratype / Hoplia nakanei / Y. Miyake, 1986’]]. [[1♂ ‘[Taiwan ] / Baibara / V. 1965 (the date given in the original description is V. 1963) / Col. T. Shirozu // Paratype / Hoplia nakanei / Y. Miyake, 1986’]]. [[1 ex. ‘[Taiwan
Type condition. The aedeagus of the holotype is pinned separately.

Current status. Valid species.

Remark. The label data the holotype do not match the original description. There is one male paratype ('六亀 = liugui, 石山 = shi shan / alt. 2000 m / 9. VI. 1976 // Paratype: / Hoplia / nakanei / Y. MIYAKE, 1986') that agrees with the data of the holotype. Probably the type labels were mixed up and this specimen should be considered the holotype.

In addition to the paratypes listed above, the following specimens labeled as paratypes are not designated in the original description: 1 ex. ‘[ Taiwan ] / Liukuei / –V–1963 / T. Shirozu col. // Paratype: / Hoplia / nakanei / Y. MIYAKE, 1986’. 1 ex. ‘APR II. 1971 / 榮華 = ronghua / B-S. CHANG // PARATYPE / Hoplia / nakanei / Y. MIYAKE, 1986’. 1 ex. ‘Paratype / Hoplia nakanei / Y. MIYAKE, 1986’.

Hoplia nengkaoshana Miyake

Hoplia nengkaoshana Miyake, 1986b: 211.

Note. The allotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

Allotype (♀). ‘Allotype // mt. Noko (2650 m) / V. 20–VI. 2, 1966 // 1 // PARATYPE / Hoplia / nengkaoshana / Y. MIYAKE, 1986’.

Paratypes. 3ex.: 1 ♂ ‘mt. Nōhō / C-Formosa / V–20 ~ Vi–21 1966 // PARATYPE / Hoplia / nengkaoshana / Y. MIYAKE, 1986’. 1 ♂ ‘MT. HÔFAN / FORMOSA / 5–V. 73 / T. OCHI // 1 // PARATYPE / Hoplia / nengkaoshana / Y. MIYAKE, 1986 // Hoplia / inornata / H. Kobayashi, 1990 / Det. H. Kobayashi, 2015’. 1 ex. ‘JUL. 16. 1966 / 合欢山 = hehuan shan / B. S. Chang // PARATYPE / nengkaoshana / Y. MIYAKE, 1986 // Hoplia / inornata / H. Kobayashi, 1990 / Det. H. Kobayashi, 2015’.

Current status. Valid species.

Remark. In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 1 ex. ‘台中 = tai chung 和平郷 = heping xiang 早等村 = zaodeng cun / 横貫公路= hengguan gonglu. 梨山站 = lishan zhan / 海抜 = kaibatsu 1679–2196 m. / 13–16. V. 1958. 陶家駒 = tao jiayu // PARATYPE / Hoplia / nengkaoshana / Y. MIYAKE, 1986’. 1 ex. ‘AUG 13. 1970 / 新坡 = xinpo / B-S. CHANG // PARATYPE / Hoplia / nengkaoshana / Y. MIYAKE, 1986’.

Hoplia simillima Miyake

Figure 4A

Hoplia simillima Miyake, 1986b: 206–207.
**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). ‘[Taiwan] / Liukuei 石山= shi shan / 9–VI–1979 / Y. Miyake leg. // HOLOTYPE / Hoplia / simillima / Y. MIYAKE, 1986’. (Fig. 4A)

Paratypes. 5 exs.: 3 exs. ‘(FORMOSA) / Baibara / –V–1969 // Paratype / Hoplia / simillima / 1989, Y. Miyake’.

Current status. Valid species.

**Remark.** In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 1 ex. ‘[Taiwan] / Liukuei 石山= shi shan / 9–VI–1979 / Y. Miyake leg. // Paratype / Hoplia / simillima / 1989, Y. Miyake’. 1 ♂ ‘石= ishi // [Taiwan] / 六亀= liugui 石山= shi shan / 9–VI–1976 / Y. Miyake leg. // Paratype / Hoplia / simillima / 1989, Y. Miyake’.

**Hoplia taiwana Miyake**

Figure 4B

Hoplia taiwana Miyake, 1986b: 204.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). ‘HOLOTYPE / Hoplia / Taiwana Y. MIYAKE / 1986’. (Fig. 4B)

Paratypes. 9 exs.: 1 ex. ‘NANSHANCHI / TAIWAN / 3. IV. 1970 / H. NOMURA // PARATYPE / Hoplia taiwana / Y. MIYAKE, 1986’. 1 ex. ‘NANSHANCHI / TAIWAN / 4. IV. 1970 / H. NOMURA // PARATYPE / Hoplia taiwana / Y. MIYAKE, 1986’. 1 ex. ‘NANSHANCHI / TAIWAN / 5. IV. 1970 / Y. KIYOYAMA // PARATYPE / Hoplia taiwana / Y. MIYAKE, 1986’. 1 ex. ‘SUNGKANG / FORMOSA / 29. VI. 1971 / Y. MAEDA // PARATYPE / Hoplia taiwana / Y. MIYAKE, 1986’. 1 ex. ‘NANSHANCHI / TAIWAN / 31. III. 1981 / Y. YAMAMOTO // Paratype / Hoplia / taiwana / Y. MIYAKE, 1986’. 1 ex. ‘NANSHANCHI / TAIWAN / 1. IV. 1981 / F. KIMURA // Paratype / Hoplia / taiwana / Y. MIYAKE, 1986’. 1 ex. ‘NANSHANCHI / TAIWAN / 2. IV. 1981 / F. KIMURA // Paratype / Hoplia / taiwana / Y. MIYAKE’. 1 ex. ‘NANSHANCHI / TAIWAN / 2. IV. 1981 / F. KIMURA // Paratype / Hoplia / taiwana / Y. MIYAKE / (1968)’. 1 ex. ‘NANSHANCHI / TAIWAN / 2. IV. 1981 / F. KIMURA // Paratype / Hoplia / taiwana / Y. MIYAKE’. 1 ex. ‘NANSHANCHI / TAIWAN / 2. IV. 1981 / F. KIMURA // Paratype / Hoplia / taiwana / Y. MIYAKE’. 1 ex. ‘NANSHANCHI / TAIWAN / 2. IV. 1981 / F. KIMURA // Paratype / Hoplia / taiwana / Y. MIYAKE’. 1 ex. ‘NANSHANCHI / TAIWAN / 2. IV. 1981 / F. KIMURA // Paratype / Hoplia / taiwana / Y. MIYAKE’. 1 ex. ‘NANSHANCHI / TAIWAN / 3. IV. 1981 / Y. YAMAMOTO // PARATYPE / Hoplia taiwana / Y. MIYAKE, 1986’.

Current status. Valid species.

**Remark.** The locality label data of the holotype are missing but the specimen agrees with the original description.

In addition to the paratypes mentioned above, the following specimens labeled as paratypes were not designated in the original description: 3 exs. ‘[Taiwan] / Liukuei 石山= shi shan / 9–VI–1976 / Y. Miyake leg. // PARATYPE / Hoplia / taiwana / Y. MIYAKE, 1986’. 1 ex. ‘[Taiwan] / 六亀= liugui 石山= shi shan / 9–VI–1976 / Y. Miyake leg. // PARATYPE
Genus *Maladera*

*Maladera hiranoi* Miyake

Figure 4C

*Maladera hiranoi* Miyake, 1986b: 3–5.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). ‘三京 = mikyô / 21/VII–82 // HOLOTYPE / Maladera / hiranoi MIYAKE / (1986) // Maladera / impressithorax / hiranoi Y. MIYAKE / DET. Y. MIYAKE, 199 // ムナクボビロウドコガネ = munakubobirôdokogane / Maladera (japonica–G) / impressithorax / Nomura, 1973 / Det. H. Hirasawa 2012’. (Fig. 4C)

**Current status.** Junior subjective synonym of *Maladera okinoerabuana* Kobayashi, 1978, see Ahrens and Bezděk (2016).

**Remark.** The date on the collecting data label of the holotype is 21.VII.1982, but the collecting date quoted in the original description is 22.VII.1982. Probably, Miyake made a typographical error when writing the description.

*Maladera kobayashii* Nomura

*Maladera kobayashii* Nomura, 1974: 106–107.

**Note.** The following paratypes are deposited in RIEB (ex coll. S. Nomura):

Paratypes. 2 exs.: 1 ♂ ‘Li-shan / Taiwan / 29. VII. 1974 / Y. Miyake // ♂ // PARATYPE / Maladera (s. str) / kobayashii / NOMURA (1974)’. 1 ♀ ‘Li-shan / Taiwan / 29. VII. 1974 / Y. Miyake // ♀ // PARATYPE / Maladera / kobayashii / NOMURA (1974)’.

**Current status.** Valid species.

*Maladera kusuii* Miyake

Figure 4D

*Maladera kusuii* Miyake, 1986b: 2–3.
Note. The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype (♂).** 三宅 = miyake / コガネムシ上科標準図鑑 = koganemushijyôka-hyôj-yunzukan / ビロウドコガネ族 = birôdokoganezoku / 図鑑使用標本 = zukanshiyôhyôohon / 執筆担当 = shippitsutantô: 平沢 伴明 = hirasawa tomoaki / 学研教育出版 = gakken-kyôikushuppan (2012) // GAKIYA / Iheya-jima / Aug. 11 1977 / leg. Y Kusui // イヘヤビロウドコガネ = iheyabirôdokogane / Maladera (japonica–G) / kusuii / Y. Miyake, 1986 / Det. H. Hirasawa 2012 // Holotype: / Maladera kusuii / Y. MIYAKE, 1986’.

**Type condition.** The aedeagus of the holotype is pinned separately. The right and left protarsi, the left mesotarsus, and the right and left metatarsi are missing, but some of the missing parts are pinned separately.

**Current status.** Valid species.

**Maladera lishana Miyake**

*Maladera lishana* Miyake, 1989b: 37–38.

Note. The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 1 ex.: 1 ♀ ‘Lishan / Taiwan / 28. VII. 1973 / Y. Miyake // Paratype: / Maladera / lishana / Y. MIYAKE, 1989’.

**Current status.** Valid species.

**Maladera nanshanchiana Nomura**

*Maladera nanshanchiana* Nomura, 1974: 111–112.

Note. The following paratypes are deposited in RIEB (ex coll. S. Nomura):

**Paratypes.** 2 exs.: 1 ex. ‘Puli 24 // PARATYPE / Maladera / nanshanchiana / NOMURA (1974)’. 1 ♀ ‘Puli 24 // ♀ // PARATYPE / Maladera / nanshanchiana / NOMURA (1974) // ナンザンケイビロウドコガネ = nanzenkeibirôdokogane / Maladera (Cephaloserica) / nanshanchiana / Nomura, 1974 / Det. H. Hirasawa 2012’.

**Current status.** Valid species.

**Maladera secretahoraiana Nomura**

*Maladera secreta horaiana* Nomura, 1974: 112.

Note. The following paratype is deposited in RIEB (ex coll. S. Nomura):

**Paratype.** 1 ex.: 1 ♂ ‘Lishan / C. Taiwan / 29. vii. 1973 / Y. Miyake // 三宅 = miyake // PARATYPE / Maladera / secreta / horaiana / NOMURA (1974)’.
Current status. Valid species.

Genus *Melanomaladera*

*Melanomaladera yunnana* Miyake & Yamaya

*Melanomaladera yunnana* Miyake & Yamaya, 2001: 38–39.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Paratypes.** 2 exs.: 1 ♂ ‘China, N W Yunnan / Degen City env. / 3300 m alt. / 29. Jun. 1998 / A. Gorodinsky leg. // 13 // Paratype: / Melanosera / yunnana’. 1 ♀ ‘China, N W Yunnan / Degen City env. / 3300 m alt. / 29. Jun. 1998 / A. Gorodinsky leg. // 13 // Paratype: / Melanosera / yunnana’.

**Current status.** *Archeohomaloplia yunnana* (Miyake et Yamaya, 2001), see Ahrens and Bezděk (2016).

**Remark.** The genus name on the paratype labels is ‘*Melanosera,*’ which is invalid. Probably, it was confused with ‘*Melanomaladera*’ by Y. Miyake.

Genus *Microserica*

*Microserica*(Parvulomaladera)* anapurnae* Ahrens

*Microserica*(Parvulomaladera)* anapurnae* Ahrens, 1995: 46–48.

**Note.** The following paratype is deposited in RIEB (ex coll. D. Ahrens):

**Paratype.** 1 ex.: ‘NEPAL–HIMALAYA / Annapurna–Mts. / leg. Ahrens 1993 // Pisang bis / Manang, 30. 5. / 3000–3300 m // PARATYPEUS / Parvulomaladera / anapurnae sp. n. / det. D. AHRENS 1994’.

**Current status.** *Oxysera pygidialis anapurnae* (Ahrens, 1995), see Ahrens and Bezděk (2016).

*Microserica nitidipyga* Nomura

*Microserica nitidipyga* Nomura, 1974: 99.

**Note.** The following paratype is deposited in RIEB (ex coll. S. Nomura):

**Paratype.** 1 ex.: ‘Lu-SHAN / FORMOSA / 27. IV. 1973 / K. MATSUDA // 三宅 = miyake // Paratype / Microserica / nitidipyga / NOMURA (1974) // Microserica / nitidipyga NOM. / DET. Y. MIYAKE, 1994’.

**Current status.** Valid species.
Genus *Nematophylla*

*Nematophylla sugiharai* Miyake

Figure 4E

*Nematophylla sugiharai* Miyake, 2000: 106–108.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂): ‘Kiau Gap / Mt. Kinabalu / Sabah, Borneo / 1. IV. 2000 / H. SUG-IHARAI leg. // Holotype: Nematophylla / sugiharai / Y. MIYAKE 2000’. (Fig. 4E)

Current status. Junior subjective synonym of *Nematophylla carinicollis* Arrow, 1938, see Krajcik (2012).

Genus *Nipponoserica*

*Nipponoserica pubiventris* Nomura

*Nipponoserica pubiventris* Nomura, 1976b: 189–190.

**Note.** The following paratype is deposited in RIEB (ex coll. S. Nomura):

Paratype. 1 ex.: ‘Takashinohama, / Osaka Pref. / 3. VI. 1974 / Coll. Mitsuo Goto // at light // PARATYPE / Nipponoserica / pubiventris / NOMURA (1976)’.

Current status. Valid species.

Genus *Paramaladera*

*Paramaladera makiharai* Nomura

*Paramaladera makiharai* Nomura, 1974: 101–102.

**Note.** The following paratypes are deposited in RIEB (ex coll. S. Nomura):

Paratypes. 4 exs.: 4 ♂ ‘Li-shan / Taiwan / 29. VII. 1974 / Y. Miyake // ♂ // Para-type / Paramaladera / makiharai / NOMURA (1974)’.

Current status. Valid species.

Genus *Pseudohoplia*

*Pseudohoplia shibatai* Miyake

*Pseudohoplia shibatai* Miyake, 1986b: 201.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):
Paratypes. 2 exs.: 1 ♀ ‘(FORMOSA)/ Mt. Ali / 15 V 1968 / Y. HAYASHI // Paratype // Hoplia / shibatai shibatai / Y. Miyake, 1986 / Det. H. Kobayashi, 2015’. 1 ex. ‘(FORMOSA)/ Mt. Ali / 15 V 1968 / Y. HAYASHI // Paratype // Hoplia / shibatai shibatai / Y. Miyake, 1986 / Det. H. Kobayashi, 2015’.

Current status. *Hoplia shibatai shibatai* (Miyake, 1986), see Kobayashi (2017).

Remark. In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 1 ex. ‘Mt. Arishan / Formosa / 1. V. 1973 / K. MATSUDA // Paratype // Paratype / Pseudohoplia / shibatai / Y. Miyake, 1986 // 贈台湾農試 = zou-taiwan-noushi’. 1 ♀ ‘Houanchi- / Sund-chuankang / Nantou Hsien / Taiwan / 25. VI. 1976 / H. Makihara leg. // Paratype // Paratype / Pseudohoplia / shibatai / Y. Miyake, 1986’. 1 ex. ‘MT. ARI / FORMOSA / 1. V. 1973 / K. MATSUDA // Paratype / Pseudohoplia / shibatai / Y. Miyake, 1986’. 1 ex. ‘MT. ARI / FORMOSA / 1. V. 1973 / K. MATSUDA // Paratype / Pseudohoplia / shibatai / Y. Miyake, 1986’.

Pseudohoplia shibatai makiharai Miyake

Figure 4F

Pseudohoplia shibatai makiharai Miyake, 1986b: 202.

Note. The holotype is deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). ‘Mt. Lalashan / Taoyuan Hsien / Taiwan / 21–24. V. 1980 / H. Makihara // HOLOTYPE / Pseudohoplia / shibatai makiharai / Y. MIYAKE, 1886’. (Fig. 4F)

Type condition. The aedeagus of the holotype is pinned separately. The right antenna is missing.

Current status. *Hoplia shibatai makiharai* (Miyake, 1986), see Kobayashi (2017).

Pseudohoplia shibatai matsudai Miyake

Figure 4G

Pseudohoplia shibatai matsudai Miyake, 1986b: 202.

Note. The holotype is deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). ‘Mt. Nōko / C-Formosa / v–20~vi–21’ 66 // HOLOTYPE / Pseudohoplia / shibatai matsudai / Y. MIYAKE, 1986’. (Fig. 4G)

Type condition. The aedeagus of the holotype is pinned separately.

Current status. Junior subjective synonym of *Hoplia shibatai shibatai* (Miyake, 1986), see Kobayashi (2017).
Figure 4. Habitus of holotype specimens. **A** *Hoplia simillima* Miyake **B** *Hoplia taiwana* Miyake **C** *Maladera hiranoi* Miyake **D** *Maladera kusui* Miyake **E** *Nematophylla sugiharai* Miyake **F** *Pseudohoplia shibatai makiharai* Miyake **G** *Pseudohoplia shibatai matsudai* Miyake **H** *Paratrichius kyushuensis* Miyake.
Genus *Pseudomaladera*

*Pseudomaladera nitidifrons* Nomura

*Pseudomaladera nitidifrons* Nomura, 1974: 96.

**Note.** The following paratypes are deposited in RIEB (ex coll. S. Nomura):

Paratypes. 2 exs.: 1 ♂ ‘FUNCHIHO / FORMOSA / 1. VIII. 1973 / H. OHASHI // 三宅 = miyake // Paratype / Pseudomaladera / nitidifrons / NOMURA, 1974’. 1 ♂ ‘MEIFENG / FORMOSA / 1. VIII. 1973 / T. OCHI // 三宅 = miyake // Paratype / Pseudomaladera / nitidifrons / NOMURA, 1974’.

**Current status.** Valid species.

Genus *Sinoserica*

*Sinoserica maculipennis* Miyake & Yamaya

*Sinoserica maculipennis* Miyake & Yamaya, 2001: 40–41.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

Paratypes. 2 exs.: ‘China, Yunnan / Boshan C. env. / 2100 m alt. / 10. VII. 1998 / A. Gorodinski // 12 // Paratype / Sinoserica / maculipennis’.

**Current status.** *Trioserica maculipennis* (Miyake et Yamaya, 2001), see Ahrens and Bezděk (2016).

Genus *Serica*

*Serica fusifemorata* Nomura

*Serica fusifemorata* Nomura, 1974: 91.

**Note.** The following paratypes are deposited in RIEB (ex coll. S. Nomura):

Paratypes. 11 exs.: 1 ♀ ‘Lishan / C. Taiwan / 29. vii. 1973 / Y. Miyake // 三宅 = miyake // Paratype / Serica / fusifemorata / NOMURA (1974)’. 2 ♀ ‘Li-shan / C. Taiwan / 26. VII. 1974 / Y. Miyake // Paratype / Serica / fusifemorata / S. NOMURA (1974)’. 2 ♂ ‘Li-shan / C. Taiwan / 29. VII. 1974 / Y. Miyake // Paratype / Serica / fusifemorata / S. NOMURA (1974)’. 2 ♀ ‘Li-shan / C. Taiwan / 29. VII. 1974 / Y. Miyake // Paratype / Serica / fusifemorata / S. NOMURA (1974)’. 1 ♂ ‘Li-shan / C. Taiwan / 1. VIII. 1974 / Y. Miyake // Paratype / Serica / fusifemorata / S. NOMURA (1974)’. 1 ♂ ‘Li-shan / C. Taiwan / 1. VIII. 1974 / Y. Miyake // Paratype / Serica / fusifemorata / S. NOMURA (1974)’. 1 ♀ ‘27 // Paratype / Serica / fusifemorata / S. NOMURA (1974)’.

**Current status.** Valid species.
**Serica gansuensis** Miyake & Yamaya

*Serica gansuensis* Miyake & Yamaya, 2001: 35–36.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Miyake):

- **Paratype.** 1 ex.: ‘China, Gangu / Mts. Minshan / nr. Wudn. 2100 / 1. VI. 1997 / A. Gorodinski // 4 // Paratype: / Serica / gansuensis’.

- **Current status.** Valid species.

**Genus Sericania**

**Sericania miyakei** Nomura

*Sericania miyakei* Nomura, 1960: 60.

**Note.** The following paratype is deposited in RIEB (ex coll. S. Nomura):

- **Paratype.** 1 ex.: ‘Paratype // TASHIRO / CHIKUGO / 4. V. 1952 / Y. MIYAKE // Sericania / miyakei / NOMURA (1960)’.

- **Current status.** Valid species.

**Genus Sophrops**

**Sophrops takatoshii** Itoh

*Sophrops takatoshii* Itoh, 1990: 9–10.

**Note.** The following paratypes are deposited in RIEB (ex coll. T. Itoh):

- **Paratypes.** 3 exs.: ‘1989–4–17 / 平良植物園= hirara-syokubutsuen / (宮古島)= miyako-jima / leg. T. Ueno // Paratype / Sophrops / takatoshii / T. Itoh’.

- **Current status.** Valid species.

**Genus Taiwanoserica**

**Taiwanoserica elongata** Nomura

*Taiwanoserica elongata* Nomura, 1974: 86.

**Note.** The following paratype is deposited in RIEB (ex coll. S. Nomura):

- **Paratypes.** 1 ex.: 1 ♂ ‘MT. ARI / FORMOSA / 30. VII. 1973 / H. OHASHI // ♂ // 三宅= miyake // Paratype / Taiwanoserica / elongata / NOMURA (1974)’.

- **Current status.** *Serica* (*Taiwanoserica*) *elongata* (Nomura, 1974), see Ahrens and Bezdék (2016).
Taiwanoserica lishana Nomura

Taiwanoserica lishana Nomura, 1974: 87.

**Note.** The following paratypes are deposited in RIEB (ex coll. S. Nomura):

**Paratypes.** 22 exs.: 2 ♂ ‘Lishan / C. Taiwan / 30. vii. 1970 / Y. Miyake // ♂ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)’. 6 ♂ ‘Lishan / C-Taiwan / 29. vii. 1973 / Y. Miyake // ♂ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)’. 4 ♂ ‘Li-shan / Taiwan / 29. VII. 1974 / Y. Miyake // ♂ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)’. 1 ♂ ‘Li-shan / Taiwan / 1. VII. 1974 // Y. Miyake // ♂ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)’. 1 ♀ ‘Li-shan / Taiwan / 29. VII. 1974 // Y. Miyake // ♂ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)’. 4 ♀ ‘Li-shan / Taiwan / 29. VII. 1974 // Y. Miyake // ♀ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)’. 1 ♀ ‘Li-shan / Taiwan / 29. VII. 1974 // Y. Miyake // ♀ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)’. 4 ♀ ‘Li-shan / Taiwan / 29. VII. 1974 // Y. Miyake // ♀ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)’. 1 ♀ ‘Li-shan / Taiwan / 29. VII. 1974 // Y. Miyake // ♀ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)’. 1 ♀ ‘Li-shan / Taiwan / 29. VII. 1974 // Y. Miyake // ♀ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)’. 1 ♀ ‘Li-shan / Taiwan / 29. VII. 1974 // Y. Miyake // ♀ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)’. 1 ♀ ‘Li-shan / Taiwan / 29. VII. 1974 // Y. Miyake // ♀ // PARATYPE / Taiwanoserica / lishana / S. Nomura (1974)’.

**Current status.** Serica (Taiwanoserica) lishana (Nomura, 1974), see Ahrens and Bezděk (2016).

Genus Trichomaladera

Trichomaladera elongata Nomura

Trichomaladera elongata Nomura, 1974: 93–94.

**Note.** The following paratype is deposited in RIEB (ex coll. S. Nomura):

**Paratype.** 1 ex.: 1 ♂ ‘Paratype / Trichomaladera / elongata / NOMURA (1974)’.

**Current status.** Valid species.

**Remark.** The collecting data label of the paratype is missing.

Genus Trichoserica

Trichoserica elongata nitididorsis Nomura

Trichoserica elongata nitididorsis Nomura, 1971: 70–71.

**Note.** The following paratype is deposited in RIEB (ex coll. S. Nomura):

**Paratype.** 1 ex.: ‘Mt. Hiko / [KYUSHU] / 27. 7. 1960 / TAKEISHI // Paratype / Trichoserica / elongata / nitididorsis / Nomura’.

**Current status.** Serica nitididorsis (Nomura, 1971), see Ahrens and Bezděk (2016).

Trichoserica incurvata Nomura

Trichoserica incurvata Nomura, 1971: 67–68.
Note. The following paratypes are deposited in RIEB (ex coll. S. Nomura):

**Paratypes.** 8 exs.: 1 ex. 'Aomori-pref / 17–vii–1956 / S. Kimotog // Paratype / Trichoserica / incurvata / Nomura (1971) // Aomori / 17. VII. 1956 / S. Kimoto'. 1 ♂ '17. VII. 1956 / S. Kimoto // Paratype / Trichoserica / incurvata / Nomura (1971)'. 2 exs. 'Aomori-pref / 19–vii–1956 / S. Kimotog // Paratype / Trichoserica / incurvata / Nomura (1971) // Kimoto S. / 19. VII. 1956'. 1 ex. 'Aomori-pref / 19–vii–1956 / S. Kimotog // Paratype / Trichoserica / incurvata / Nomura (1971) // 19. VII. 1956 / S. Kimoto'. 2 exs. 'Sensuidani 1200 m / Okutama Tokyo / 21–VII–1968 / Coll. H. Yuasa // Paratype / Trichoserica / incurvata / Nomura (1971)'. 1 ex. 'Okutama / 21. VII. 1968 / YUASA // Paratype / Trichoserica / incurvata / Nomura (1971)'.

**Current status.** *Serica incurvata* (Nomura, 1971), see Ahrens and Bezděk (2016).

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**Trichoserica nitidiceps Nomura**

*Trichoserica nitidiceps* Nomura, 1971: 69–70.

Note. The following paratype is deposited in RIEB (ex coll. S. Nomura):

**Paratype.** 1 ex.: 1 ♂ '(Kyushu) / Mt. Sobo / 23. V. 1952 / Y. Miyake // Paratype / Trichoserica / nitidiceps / NOMURA'.

**Current status.** Junior subjective synonym of *Serica inexpectata* (Kontkanen, 1956), see Ahrens and Bezděk (2016).

**Remark.** In addition to the paratype mentioned above, the following specimen labeled as paratype is not designated in the original description: 1 ex. 'Mt. Kuju / Bungo / 28. vii. 1961 / Y. Miyake // Paratype / Trichoserica / nitidiceps / NOMURA (1971)'.

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**Trichoserica opacifrons Nomura**

*Trichoserica opacifrons* Nomura, 1971: 68–69.

Note. The following paratypes are deposited in RIEB (ex coll. S. Nomura):

**Paratypes.** 3 exs.: 1 ♂ 'Mt. Hiko / Buzen / 1. VIII. 1953 / Y. Miyake // Paratype / Trichoserica / opacifrons / NOMURA'. 1 ex. 'mt. Kujū / Hokkein / 27. VII. 1961 / Y. Miyake Coll // Paratype / Trichoserica / opacifrons / NOMURA'. 1 ♂ '[ Kyushu ] / Yakushima / 21. Vi. 1954 / Col. K. Matsuda // Paratype / Trichoserica / opacifrons / NOMURA // Ophthalmoserica/ matsudai / sp.n. / DET. Y. MIYAKE'.

**Current status.** Senior objective synonym of *Serica planifrons* Nomura, 1972, see Ahrens and Bezděk (2016). Nomura (1972) proposed *Serica planifrons* as a replacement name for *Serica opacifrons* (Nomura, 1971), a junior secondary homonym of *Serica opacifrons* Fairmaire, 1891.
Subfamily Cetoniinae
Genus *Anomalocera*

*Anomalocera paotao* Masumoto & Sakai

*Anomalocera paotao* Masumoto & Sakai, 1987a: 51−54.

**Note.** The following paratypes are deposited in RIEB (ex coll. Masumoto):

**Paratypes.** 2 exs.: 1 ex. ‘Lishan / Taiwan / 28. VII. 1974 / Y. Miyake // Paratype / Anomalocera / paotao MAS. et SAK.’. 1 ex. ‘Lishan / C, -Taiwan / 29 vii. 1973 / Y. Miyake // Paratype / Anomalocera / paotao MAS. et Sak.’.

**Current status.** *Diphyllomorpha paotao* (Masumoto et Sakai, 1987), see Bezděk (2016).

Genus *Rhomborhina*

*Rhomborhina kurosawai* Masumoto & Sakai

*Rhomborhina kurosawai* Masumoto & Sakai, 1987b: 104−105, 107.

**Note.** The following paratypes are deposited in RIEB (ex coll. Masumoto):

**Paratypes.** 3 exs.: 2 ♂ ‘FORMOSA / tattaka / 9, VIII 1971 / H. OHARA // Paratype / Rhomborhina / kurosawai / MASUMOTO et K. SAKAI’. [1 ♂ ‘Tsuifeng / C. Tsiwan / 26. vii. 1970 (the date given in the original description is 27.vii.1970) // Y. Miyake // Paratype / Rhomborhina / kurosawai / MASUMOTO et K. SAKAI’].

**Current status.** Valid species.

Genus *Thaumastopeus*

*Thaumastopeus chicheryi tenuigenius* Miyake & Yamaya

*Thaumastopeus chicheryi tenuigenius* Miyake & Yamaya, 1995: 38.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Miyake):

**Paratype.** 1 ex.: 1 ♂ ‘N. Keningau / N. Borneo / 30. V. 1994 // Paratype: Thaumastopeus / chicheryi tenuigenius / Y. MIYAKE et YAMAYA, 1995’.

**Current status.** Valid species.

Genus *Paratrichius*

*Paratrichius hatai* Miyake

*Paratrichius hatai* Miyake, 1989: 41−42.
Note. The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

Paratypes. 4 exs.: [[‘Tanah Rata / MALAYA / 7. IV. 1972 (the date given in the original description is 7.IV.1978) / M. Hata // Paratype: / Paratrichius / hatai / Y. MIYAKE, 1989’]].

Current status. Valid species.

Paratrichius kyushuensis Miyake
Figure 4H

Paratrichius kyushuensis Miyake, 1990: 30–32.

Note. The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). ‘MT. SOBO / BUNGO / 28. vii. 1954 / Y. MIYAKE // Holotype: / Paratrichius / kyushuensis / Y. MIYAKE, 1990’. (Fig. 4H)

Paratypes. 5 exs.: 1 ex. ‘(Kyushu) / Mt. Sobo / 24. VII. 1950 / Y. Miyake // Paratype: Paratrichius / kyushuensis / Y. MIYAKE, 1990’. 1 ♂ ‘(Kyushu) / Mt. Sobo / 24. VII. 1953 / K. MATSUDA // Paratype: Paratrichius / kyushuensis / Y. MIYAKE, 1990’. 1 ex. ‘(Kyushu) / Mt. Ichi Fu Sa / 28 VII 1952 / Col. S. Kimoto // Paratype: Paratrichius / kyushuensis / Y. MIYAKE, 1990’. 1 ex. ‘⑦ // Paratype: Paratrichius / kyushuensis / Y. MIYAKE, 1990’.

Type condition. The left metatarsus of the holotype is missing.

Current status. Valid species.

Remark. The date on the label of the holotype is 28.VII.1954 while that in the original description is 28.VII.1952.

In addition to the paratypes mentioned above, the following specimen labeled as paratype is not designated in the original description.: 1 ex. ‘① // Paratype: Paratrichius / kyushuensis / Y. MIYAKE, 1990’.

Genus Tibiotrichius

Tibiotrichius vietnamensis Miyake
Figure 5A

Tibiotrichius vietnamensis Miyake, 1996: 44.

Note. The holotype is deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). ‘M. ITO leg / Sapa=Chapa / N. Vietnam / 23–V–1995 // ＳＡＰＡ= sapa [aedeagus mount] // Holotype: Tibiotrichius / vietnamensis Y. MIYAKE, 1996’. (Fig. 5A)

Type condition. The aedeagus of the holotype is pinned separately.

Current status. Valid species.
Subfamily Valginae

Genus Charitovalgus

Charitovalgus banzai Sawada
Figure 5B

Charitovalgus banzai Sawada, 1941: 8–9.

Note. The neotype is deposited in RIEB (ex coll. Y. Miyake):

Neotype (♂). ‘Hourng Shoei ken / near Liukuei, / Kao Hsung Hsien / VII. 1972
W. Chen leg // Holotype: Neotype / Charitovalgus / banzai SAWADA / Y. MIYAKE,
1993’. (Fig. 5B)

Type condition. The right and left metatarsi of the neotype are missing.

Current status. Valid species.

Remark. The neotype was designated by Miyake (1993).

Genus Dasyvalgus

Dasyvalgus annamensis Miyake
Figure 5C

Dasyvalgus annamensis Miyake, 1993a: 21–22.

Note. The holotype and following paratype are deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). ‘4. 4 / 203 // Iluon Ma Thuot / Annam M. ITO // Holotype: Dasy-
valgus / Annamensis / Y. MIYAKE, 1993’. (Fig. 5C)

Paratype. 1 ex.: 1 ♀ ‘Iluon Ma Thuot / Annam M. ITO // Paratype: Dasyvalgus /
annamensis / Y. MIYAKE, 1993’.

Current status. Valid species.

Remark. The locality on the collecting data label of the holotype is ‘Iluon Ma
Thuot’, but the locality given in the original description is ‘Ban Me Thuot’. However,
the habitus of the holotype and the figure in the original description match. Probably,
Miyake made a typographical error when writing the description.

Dasyvalgus castaneodorsalis Miyake
Figure 5D

Dasyvalgus castaneodorsalis Miyake, 1993a: 24–25.

Note. The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). ‘[Thailand] Pupin–Doi Phui / 19–IV–1985 / M. TAO leg. // Holo-
type: Dasyvalgus / castaneodorsalis / Y. MIYAKE, 1993’ (Fig. 5D)
Paratypes. 6 exs.: 2 ♂ (Thailand) Pupin-Doi-Phui / 19–IV–1985 / M. TAO leg. // Paratype: Dasyvalgus / castaneodorsalis / Y. MIYAKE, 1993’. 1 ♂ (Thailand) Pupin-Doi-Phui / 21–IV–1985 / M. TAO leg. // Paratype: Dasyvalgus / castaneodorsalis / Y. MIYAKE, 1993’. 1 ♂ (Thailand) Pupin / 21–IV–1985 / M. TAO // Paratype: Dasyvalgus / castaneodorsalis / Y. MIYAKE, 1993’. 1 ♂ (Thailand) Doi Suthep / 10–V–1985 / M. TAO leg. // Paratype: Dasyvalgus / castaneodorsalis / Y. MIYAKE, 1993’.

Type condition. The aedeagus of the holotype is pinned separately.

Current status. Valid species.

Dasyvalgus decamaculatus Miyake

Figure 5E

Dasyvalgus decamaculatus Miyake, 1993a: 22–23.

Note. The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). ‘Iluon Ma Thuot / Annam M. ITO // Holotype: / Dasyvalgus / decamaculatus / Y. MIYAKE, 1993’. (Fig. 5E)

Paratypes. 2 exs.: 1 ex. ‘Near Chang Mai / N. Thailand / 7–V–1994 / K. KUME leg. // Paratype: Dasyvalgus / decamaculatus / Y. MIYAKE, 1993’. 1 ex. ‘Paratype: Dasyvalgus / decamaculatus / Y. MIYAKE, 1993’.

Type condition. The right and left metatarsus are missing.

Current status. Valid species.

Remark. The locality on the collecting data label of the holotype is ‘Iluon Ma Thuot’, but the locality given in the original description is ‘Ban Me Thuot’. However, the habitus of the holotype and the figure in the original description match. Probably, Miyake caused a typographical error when writing the description.

Dasyvalgus flavicauda Miyake, Yamaguchi et Aoki

Figure 5F

Dasyvalgus flavicauda Miyake, Yamaguchi, Aoki et Akiyama, 2002: 65–66.

Note. The holotype and following paratype are deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). ‘Ban Lao Kram / Mukdahan / E-THAILAND / 17. Feb. 1999 / S. Yamaguchi and / T. Aoki leg. // Holotype: / Dasyvalgus / flavicauda // Holotype / Dasyvalgus flavicauda / Y. MIYAKE, YAMAGUCHI / et AOKI 2002’. (Fig. 5F)

Paratype. 1 ex.: 1 ♂ ‘Phu Huai Sing / Mukdahan / E–THAILAND / 19. Feb. 1999 / S. Yamaguchi and / T. Aoki leg. // Paratype / Dasyvalgus flavicauda / Y. MIYAKE, YAMAGUCHI / et AOKI 2002’.

Current status. Valid species.
Figure 5. Habitus of holotype specimens. A Tibiotrichius vietnamensis Miyake B Charitovalgus banzai Sawada C Dasyvalgus annamensis Miyake D Dasyvalgus castaneodorsalis Miyake E Dasyvalgus decamaculatus Miyake F Dasyvalgus flavicauda Miyake G Dasyvalgus macacus Miyake H Dasyvalgus multiculus Miyake.
**Dasyvalgus macacus Miyake**

Figure 5G

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

- **Holotype** (♂). ‘Thailand Pupin–Doi Phui / 19–IV–1985 / M. TAO leg. // Holotype: Dasyvalgus / macacus / Y. MIYAKE, 1993’. (Fig. 5G)

- **Paratypes.** 4 exs.: 1 ♂ ‘Thailand Pupin-Doi Phui / 1–V–1985 / M. TAO leg. // Paratype: Dasyvalgus / macacus / Y. MIYAKE, 1993’. 1 ♂ ‘Thailand Pupin-Doi Phui / 5–V–1985 / M. TAO leg. // Paratype: Dasyvalgus / macacus / Y. MIYAKE, 1993’. 1 ♂ ‘Thailand Pupin-Doi Phui / 12–V–1985 / M. TAO leg. // Paratype: Dasyvalgus / macacus / Y. MIYAKE, 1993’. 1 ♂ ‘Thailand Pupin-Doi Phui / 21–V–1985 / M. TAO leg. // Paratype: Dasyvalgus / macacus / Y. MIYAKE, 1993’.

**Current status.** Valid species.

**Remark.** The habitus photograph in the original description does not refer to the holotype.

**Dasyvalgus makiharai Miyake**

**Dasyvalgus makiharai Miyake,** 1985: 11–12.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

- **Paratype.** 1 ex.: ‘MEIFENG / FORMOSA / 3–VII. 74 / T. OCHI // Paratype: Dasyvalgus / makiharai / Y. MIYAKE / (1985)’.

**Current status.** Valid species.

**Remark.** In addition to the paratype mentioned above, the following specimens labeled as paratype are not designated in the original description: 1 ex. ‘松崗= song-gang / 27～29. VII 1968 / K. YAMAMOTO // Paratype: Dasyvalgus / makiharai / Y. MIYAKE, 1985’. 1 ♂ ‘SUNG KANG / FORMOSA / 30–VI, 74 / T. OCHI // Paratype: Dasyvalgus / makiharai / Y. MIYAKE / (1985)’.

**Dasyvalgus minahasanus Miyake**

**Dasyvalgus minahasanus Miyake,** 1989b: 42–43.

**Note.** The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

- **Paratypes.** 78 exs.: 75 exs. ‘Tondano / N. Sulawesi / 10–IV–1989 / Y. Miyake leg. // Paratype: Dasyvalgus / minahasanus / Y. MIYAKE, 1989’. 3 exs. ‘Tondano / N. Sulawesi / 9–IV–1989 / Y. Miyake leg. // Paratype: Dasyvalgus / minahasanus / Y. MIYAKE, 1989’.
Current status. Valid species.

Remark. In addition to the paratypes mentioned above, the following specimen labeled as paratypes is not designated in the original description: 1 ex. ‘Tondano / N. Sulawesi / 11–IV–1989 / Y. Miyake leg. // Paratype: / Dasyvalgus / minahasanus / Y. MIYAKE, 1989’.

*Dasyvalgus multicus* Miyake

Figure 5H

*Dasyvalgus multicus* Miyake, 1993a: 25–26.

Note. The holotype is deposited in RIEB (ex coll. Y. Miyake):

**Holotype (♂).** ‘[ Thailand ] / プピンプイ= pupin-pui / 5–V–1985 / M. Tao leg. // Holotype: Dasyvalgus / multicus / Y. MIYAKE, 1993’. (Fig. 5H)

**Type condition.** The aedeagus of the holotype is pinned separately. The right and left protarsus are missing.

Current status. Valid species.

*Dasyvalgus nudis* Miyake

Figure 6A

*Dasyvalgus nudis* Miyake, 1994: 153.

Note. The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

**Holotype (♂).** ‘Cao Bang / N. Vietnam / 9–11. VI, 1993 / M. ITO leg // Holotype: Dasyvalgus / nudis / Y. MIYAKE, 1994’. (Fig. 6A)

**Paratypes.** 9 exs.: 3 ♂ ‘Cao Bang / N. Vietnam / 8–10 VI, 1993 / M. ITO leg. // Paratype: / Dasyvalgus / nudis / Y. MIYAKE, 1994’. 3 ♂ ‘Cao Bang / N. Vietnam / 10. VI, 1993 / M. ITO leg. // Paratype: / Dasyvalgus / nudis / Y. MIYAKE, 1994’. [[2 ♂ ‘Cao Bang / N. Vietnam / 9–11. VI, 1993 (real date is 8–10. VI, 1993) / M. ITO leg. // Paratype: / Dasyvalgus / nudis / Y. MIYAKE, 1994’]]. [[1 ex. ‘Cao Bang / N. Vietnam / 11. VI, 1993 (real date is 8–10. VI, 1993) / M. ITO leg. // Paratype: / Dasyvalgus / nudis / Y. MIYAKE, 1994’]].

**Type condition.** The aedeagus of the holotype is pinned separately. The right antenna is missing.

Current status. Valid species.

Remark. The date on the collecting data label of the holotype is 9–11,VI,1993, but the collecting date quoted in the original description is 8–10,VI,1993. However, the habitus of the holotype and the figure in the original description match. Probably, Miyake caused a typographical error when writing the description.
Dasyvalgus rubrothoracicus Miyake

Figure 6B

Dasyvalgus rubrothoracicus Miyake, 1993a: 23–24.

Note. The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):

Holotype (♂). Thailand / Pupin–Doi Phui / 21–IV–1985 / M. TAO leg. // Holotype: Dasyvalgus / rubrothoracicus / Y. MIYAKE, 1993'. (Fig. 6B)

Paratypes. 11 exs.: 1 ex. ‘Doi Suthep / Thailand / 28–IV–1985 / M Tao leg. // TDvA // Paratype: Dasyvalgus / rubrothoracicus / Y. MIYAKE, 1993’. 1 ♂ (Thailand) Pupin-Doi-Phui / 1–V–1985 / M. TAO leg. // Paratype: Dasyvalgus / rubrothoracicus
Catalogue of the type material of Scarabaeoidea (Coleoptera)

/ Y. MIYAKE, 1993’. 1 ♂ [Thailand] Pupin-Doi-Phui / 1–V–1985 / M. TAO leg. // TDvA // Paratype: Dasyvalgus / rubrothoracicus / Y. MIYAKE, 1993’. 1 ♂ [Thailand] Pupin-Doi-Phui / 5–V–1985 / M. TAO leg. // TDvA // TDvA // Paratype: Dasyvalgus / rubrothoracicus / Y. MIYAKE, 1993’. 1 ♂ [Thailand] Pupin-Doi-Phui / 11–V–1985 / M. TAO leg. // Paratype: Dasyvalgus / rubrothoracicus / Y. MIYAKE, 1993’. [1 ♂ [Thailand] Pupin-Doi-Phui / 17–V–1985 (the date given in the original description is 17–IV–1985) / M. TAO leg. // Paratype: Dasyvalgus / rubrothoracicus / Y. MIYAKE, 1993’]. [1 ♂ [Thailand] Pupin-Doi-Phui / 21–V–1985 (the date given in the original description is 21–IV–1985) / M. TAO leg. // TDvA // Paratype: Dasyvalgus / rubrothoracicus / Y. MIYAKE, 1993’]. [1 ♂ [Thailand] Pupin-Doi-Phui / 21–V–1985 (the date given in the original description is 21–IV–1985) / M. TAO leg. // TDvA // Paratype: Dasyvalgus / rubrothoracicus / Y. MIYAKE, 1993’]. [1 ♂ [Thailand] Pupin-Doi-Phui / 28–V–1985 (the date given in the original description is 28–IV–1985) / M. TAO leg. // TDvA // Paratype: Dasyvalgus / rubrothoracicus / Y. MIYAKE, 1993’].

Type condition. The aedeagus of the holotype is pinned separately.

Current status. Valid species.

Remark. The date on the collecting data label of the holotype is 21–IV–1985, but the collecting date quoted in the original description is 5–V–1985. However, the habitus of the holotype and the figure in the original description match. Probably, Miyake caused a typographical error when writing the description.

Dasyvalgus similis Miyake

Dasyvalgus similis Miyake, 1985: 8–9.

Note. The following paratypes are deposited in RIEB (ex coll. Y. Miyake):

Paratypes. 3 exs.: 1 ♂ ‘蓬来= hôrai / 20, 21 VIII 1968 / H. MAKIHIRA // Paratype’. 1 ♂ ‘FUNCHIIFO / FORMOSA / 1. VI. 1970 / Y. KIYOYAMA // Paratype // Paratype / Dasyvalgus / similis, Y. MIYAKE / 1985’. 1 ♂ ‘FUNCHIIFO / FORMOSA / 1. VI. 1970 / Y. KIYOYAMA // Paratype’.

Current status. Senior objective synonym of Dasyvalgus taiwanus Miyake, 1991. Miyake in Miyake et al. (1991) proposed Dasyvalgus taiwanus as a replacement name for Dasyvalgus similis Miyake, 1985, a junior primary homonym of Dasyvalgus similis Moser, 1908.

Remark. In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 1 ex. ‘LIUKUEI / FORMOSA / 3. X. 1970 / Y. KIYOYAMA // Paratype // Paratype / Dasyvalgus / similis Y. MIYAKE, 1985’. 1 ex. ‘NANSHANCHI / FORMOSA / 27. VI. 1971 / Y. MAEDA // Paratype // Paratype / Dasyvalgus / similis Y. MIYAKE, 1985’. 1 ex. ‘紅水坑= hongshuikeng / Liukuei / 11. V. 1978 / Chen. W. // Paratype’. 1 ♂ ‘紅水坑= hongshuikeng / Liukuei / 11. V. 1978 / Chen. W. // Paratype’. 1 ex. “紅水坑= hongshu-
ikeng / Liukuei / 11. V. 1978 / W. Chen // Paratype // Paratype / Dasyvalgus / similis Y. MIYAKE, 1985’. 1 ex. ‘Paratype’.

**Dasyvalgus wadai Miyake**

*Dasyvalgus wadai* Miyake, 1985: 9–10.

**Note.** The following paratype is deposited in RIEB (ex coll. Y. Miyake):
- **Paratype.** 1 ex.: 1 ♂ ‘Paratype / Dasyvalgus / wadai Y. MIYAKE, 1985’.
- **Current status.** Valid species.
- **Remark.** This paratype has no collecting data label.

**Genus Hybovalgus**

**Hybovalgus matsudai Miyake**

*Hybovalgus matsudai* Miyake, 1985: 6.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):
- **Holotype (♂).** ‘Paratype // Holotype / Hybovalgus / matsudai Y. MIYAKE / (1985)’.
- **Type condition.** The right protarsus is missing.
- **Current status.** Valid species.
- **Remark.** There is no data label attached to the holotype, but the habitus of the holotype matches the figure in the original description. If confidence is placed in the pinned holotype label and the habitus, the above holotype specimen is the true holotype.

**Genus Neovalgus**

**Neovalgus formosanus Miyake**

*Neovalgus formosanus* Miyake, 1985: 3.

**Note.** The holotype and following paratypes are deposited in RIEB (ex coll. Y. Miyake):
- **Holotype (♂).** ‘六亀= liugui, 石山= shi shan / 9. VI. 1976 / 2000m // Holotype: / Neovalgus / formosanus / Y, MIYAKE, 1985’. (Fig. 6D)
- **Paratypes.** 2 exs.: 1 ex. ‘[ Taiwan ] / Baibara, mt. Puli / –V–1965 // Paratype: Neovalgus / formosanus Y. MIYAKE, 1985’.
- **Current status.** Valid species.
**Remark.** The date on the collecting label of the holotype is 9.VI.1976, but the collecting date quoted in the original description is 16.V.1978. However, the habitus of the holotype matches the figure in the original description. Probably, Miyake caused a typographical error when writing the description.

In addition to the paratypes mentioned above, the following specimens labeled as paratypes are not designated in the original description: 3 exs. ‘[ Taiwan ] / Baibara, mt. Puli / –V–1965 // PARATYPE / Neovalgus / formosanus / Y. MIYAKE, 1985’. 1 ex. ‘Formosa / Wuhe / V. 1965 / T. Shiroz / Paratype: Neovalgus / formosanus / Y. MIYAKE, 1985’. 1 ex. ‘六亀= liugui, 石山= shi shan / 2000 m / 9–VI–1976 / Paratype / Neovalgus / formosanus / Y. MIYAKE, 1985’. 1 ex. ‘Paratype: / Neovalgus / formosanus / Y. MIYAKE, 1985’.

**Genus Oreoderus**

*Oreoderus quadrimaculatus* Miyake, Yamaguchi et Aoki

Figure 6E

*Oreoderus quadrimaculatus* Miyake, Yamaguchi, Aoki et Akiyama, 2002: 64–65.

**Note.** The holotype is deposited in RIEB (ex coll. Y. Miyake):

- **Holotype (♂).** ‘Phu Huai Sing / Mukdahan / E-THAILAND / 19. Feb. 1999 / S. Yamahuchi and T. Aoki leg. // Holotype: / Oreoderus / quadrimaculatus // Or. 4ml / Coll. // Holotype / Oreoderus quadrimaculatus / Y. MIYAKE, YAMAGUCHI / et AOKI 2002’. (Fig. 6E)

- **Type condition.** The aedeagus of the holotype is pinned separately. The right protarsus is missing.

- **Current status.** Valid species.

**Genus Tarsovalgus**

*Tarsovalgus hatai* Miyake

Figure 6F

*Tarsovalgus hatai* Miyake, 1993b: 32–33.

**Note.** The holotype and following paratype are deposited in RIEB (ex coll. Y. Miyake):

- **Holotype (♂).** ‘[ Malaya ] / – –1992 // Holotype: Tarsovalgus / hatai Y. MIYAKE, 1993’. (Fig. 6F)

- **Paratype.** 1 ex.: ‘[ Malaya ] / – –1992 // Paratype: / Tarsovalgus / hatai / Y. MIYAKE, 1993’.

- **Current status.** Valid species.
Family Trogidae
Genus *Trox*

*Trox kyotensis* Ochi & Kawahara

*Trox kyotensis* Ochi & Kawahara, 2000: 53–56.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: ‘YAMAZAKI- / CHO, KYOTO. / 5–IV, 1999 / M. KAWAHARA // PARATYPE / Trox / kyotensis / OCHI and KAWAHARA / 2000’.

**Current status.** *Trox (Niditrox) kyotensis* Ochi et Kawahara, 2000, see Kalz (2019).

*Trox sabulosus fujiokai* Ochi

*Trox sabulosus fujiokai* Ochi, 2000: 43–44.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ex.: ‘Yukyuzan-Park, Nagaoka / Niigata Pref., Japan / 28. V. 1997 / Y and M. Kawahara leg // PARATYPE / Trox / Sabulosus / Subsp. fujiokai / OCHI, 2000’.

**Current status.** Valid species.

*Trox setifer horiguchii* Ochi & Kawahara

*Trox setifer horiguchii* Ochi & Kawahara, 2002: 54–55.

**Note.** The following paratype is deposited in RIEB (ex coll. T. Ochi):

**Paratype.** 1 ♂: ‘MEBORO-DAM / KAMIAGATA. T. / IS. TSUSHIMA / NAGASAKI. J. P / 25–V. 2002 / Y and M. KAWAHARA // 対県= tsu-ken上県町= kamiagata-chô / 目保呂ダム= meborodamu / 25. V. 2002 / Y and M. Kawahara // 丞 // PARATYPE / Trox / setifer / subsp. horiguchii / OCHI and KAWAHARA / 2002’.

**Current status.** *Trox horiguchii* Ochi and Kawahara, 2002, see Pittino (2006).

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