

Checklist of the Cantharidae of Taiwan (Coleoptera: Elateroidea)

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Abstract. A checklist of the cantharid beetles of Taiwan, including four subfamilies, 21 genera, and 165 species, is presented. Chinese names, synonyms, original references, type localities, type depositories, and distributions are provided. *Podabrus (Anolisus) bicoloripes* (Pic, 1927) and *Micropodabrus pieli* (Pic, 1937) were removed from the fauna of Taiwan. A new combination is also proposed: *Walteriella brunnea* (Wittmer 1955), comb. nov., was transferred from *Lycocerus* Gorham, 1889.

Key words: Taiwan, Cantharidae, checklist, new combination

INTRODUCTION

The taxonomic study of the Taiwanese Cantharidae was commenced by Maurice Pic in the early 20th century (Pic 1910a, b, c). Pic continuously described many species from this island. Following his studies, Walter Wittmer also began to study the Taiwanese Cantharidae in the middle 20th century and added many new species and taxonomic notes. In particular, he revised the Taiwanese Cantharidae except for the Chauliognathinae, and recorded 106 species belonging to 18 genera (Wittmer 1982, 1983b, 1984). For the subfamily Chauliognathinae, Michel Brancucci recorded three genera and 25 species from Taiwan (Brancucci 1983, 1985a, b). In recent years, several taxonomic notes were given by some European, Japanese, and Chinese

entomologists (Švihla 2008, 2011; Okushima 2008; Yang *et al.* 2009, 2012, 2013; Takahashi 2011; Okushima and Yang 2013).

Consequently, four subfamilies, 21 genera, and 165 species are listed at present (Table 1). Most of them are endemic to Taiwan, although some species are also known from China or the nearby Ryukyu Islands of Japan.

This checklist was initiated by M. Satô, Y. Okushima, and C.-L. Li more than 10 years ago. After Satô passed away in 2006, N. Takahashi and Y.-X. Yang subsequently joined the project. It was postponed after 2011 until Y. Hsiao entered in 2014, and the list is now finally completed.

MATERIALS AND METHODS

In the checklist, valid scientific names, original sources, synonyms, type localities, type

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depositories, and distributions are included. Some old names of localities are updated in brackets [updated name]. Additional remarks were added to account for taxonomic changes if necessary. The higher classification in the checklist follows Kazantsev and Brancucci (2007). Generic, specific, and subspecific names are arranged alphabetically in each of the higher taxa, although the nominotypical subgenus is placed first in the genus when subgenera are recognized. The type status (syntypes, holotype, or lectotype and its sex) is specified whenever possible; otherwise we used “type(s)” to express the unknown status. Citation of the original source and records from Taiwan are given for each taxon.

Institutions of type depositories are referred to in the text by the following abbreviations: CAS, California Academy of Sciences, San Francisco, CA, USA; EIHU, Hokkaido University, Sapporo, Japan; EUMJ, Ehime University, Matsuyama, Japan; KPM, Kanagawa Prefectural Museum of Natural History, Odawara, Japan; KUEC, Kyushu University, Fukuoka, Japan; KURA, Kurashiki Museum of Natural History, Kurashiki, Japan; MNHN, Muséum National d’Histoire Naturelle, Paris, France; MNHUB, Zoologisches Museum der Humboldt-Universität, Berlin, Germany; MSNG, Museo Civico di Storia Naturale, Genova, Italy; NHMB, Naturhistorisches Museum, Basel, Switzerland; NMNS, National Museum of Natural Science, Taichung, Taiwan; NSMT, National Museum of Nature and Science, Tokyo, Japan; OMNH, Osaka Museum of Natural History, Osaka, Japan; SDEI, Senckenberg, Deutsches Entomologisches Institut, Müncheberg, Germany; TARI, Taiwan Agricultural Research Institute, Wufeng, Taichung, Taiwan; TUA, Tokyo University of Agriculture, Atsugi, Japan. Also s. str. means *sensu stricto*.

RESULTS

Checklist of the Cantharidae of Taiwan

CANTHARINAE 菊虎亞科

Tribe Podabrini 雙齒菊虎族

Genus *Asiopodabrus* Wittmer, 1982 小雙齒菊虎屬

Podabrus (*Asiopodabrus*) Wittmer, 1982: 122. —Takahashi and Kiriyama, 2000: 122.
Asiopodabrus: Takahashi, 2002: 196.
 Type species: *Podabrus* (*Asiopodabrus*) *taiwanus* Wittmer, 1982, by original designation.

Asiopodabrus haiduanensis Takahashi, 2011 海端小雙齒菊虎

Asiopodabrus haiduanensis Takahashi, 2011: 224.
 Type locality: Haiduan, Taitung County, Taiwan. (臺東縣海端)
 Type depository: Holotype male in KPM.
 Distribution: Taiwan.

Asiopodabrus kuriharai Takahashi, 2011 栗原氏小雙齒菊虎

Asiopodabrus kuriharai Takahashi, 2011: 224.
 Type locality: Cuifeng Lake, Ilan County, Taiwan. (宜蘭縣翠峰湖)
 Type depository: Holotype male in EUMJ.
 Distribution: Taiwan.

Asiopodabrus masumotoi Takahashi, 2011 益本氏小雙齒菊虎

Asiopodabrus masumotoi Takahashi, 2011: 225.
 Type locality: Wanda, Nantou County, Taiwan. (南投縣萬大)
 Type depository: Holotype male in KPM.
 Distribution: Taiwan.

Asiopodabrus nenkaoensis Takahashi, 2011 能高小雙齒菊虎

Asiopodabrus nenkaoensis Takahashi, 2011: 227.
 Type locality: Nenggaoshan, Nantou County, Taiwan. (南投縣能高山)
 Type depository: Holotype male in EUMJ.
 Distribution: Taiwan.

Asiopodabrus niisatoi Takahashi, 2011 新里氏小雙齒菊虎

Asiopodabrus niisatoi Takahashi, 2011: 228.
 Type locality: Wulai, New Taipei City, Taiwan. (新北市烏來)
 Type depository: Holotype male in KPM.
 Distribution: Taiwan.

Asiopodabrus sakaii (Wittmer, 1982) 酒井氏小雙齒菊虎

Podabrus (*Asiopodabrus*) *sakaii* Wittmer, 1982: 124.
Asiopodabrus sakaii: Kazantsev and Brancucci, 2007: 236. — Okushima, 2008: 278.
 Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)
 Type depository: Holotype male in NHMB.
 Distribution: Taiwan.

***Asiopodabrus suzukii* Takahashi, 2011** 鈴木氏小雙齒菊虎

Asiopodabrus suzukii Takahashi, 2011: 228.
 Type locality: Haiduan, Taitung County, Taiwan. (臺東縣海端)
 Type depository: Holotype male in KPM.
 Distribution: Taiwan.

***Asiopodabrus taiwanus taiwanus* (Wittmer, 1982)** 臺灣小雙齒菊虎

Podabrus (*Asiopodabrus*) *taiwanus* Wittmer, 1982: 123.
Asiopodabrus taiwanus: Kazantsev and Brancucci, 2007: 236. — Okushima, 2008: 278.
Asiopodabrus taiwanus taiwanus: Takahashi, 2011: 230.
 Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)
 Type depository: Holotype male in NHMB.
 Distribution: Taiwan.

***Asiopodabrus taiwanus lienhuachiensis* Takahashi, 2011** 蓮花池小雙齒菊虎

Asiopodabrus taiwanus lienhuachiensis Takahashi, 2011: 231.
 Type locality: Lianhuachi, Nantou County, Taiwan. (南投縣蓮花池)
 Type depository: Holotype male in KPM.
 Distribution: Taiwan.

Tribe Cantharini 菊虎族**Genus *Taiwanocantharis* Wittmer, 1984** 臺菊虎屬

Cantharis (*Taiwanocantharis*) Wittmer, 1984: 147. — Wittmer and Kasantsev, 1997: 371.
Taiwanocantharis: Švihla, 2011: 4.
 Type species: *Cantharis* (*Taiwanocantharis*) *tripunctata* Wittmer, 1984, by original designation.

***Taiwanocantharis pallidithorax* (Wittmer, 1984)** 灰胸臺菊虎

Cantharis (*Taiwanocantharis*) *pallidithorax* Wittmer, 1984: 148. — Okushima, 2008: 278.
Taiwanocantharis pallidithorax: Švihla, 2011: 5.
 Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)
 Type depository: Holotype male in NHMB.
 Distribution: Taiwan.

***Taiwanocantharis tripunctata* (Wittmer, 1984)**

三點臺菊虎

Cantharis (*Taiwanocantharis*) *tripunctata* Wittmer, 1984: 147. — Okushima, 2008: 278.
Taiwanocantharis tripunctata: Švihla, 2011: 5.
 Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)
 Type depository: Holotype male in NHMB.
 Distribution: Taiwan.

Genus *Fissocantharis* Pic, 1921 異角菊虎屬

Fissocantharis Pic, 1921a: 27.
 Type species: *Fissocantharis opaca* Pic, 1921 originally designated.
 Remarks. This genus was considered to be a synonym of *Micropodarbus* Pic, 1920 by Wittmer (1997), but was reinstated by Yang *et al.* (2009).

***Fissocantharis bicoloriceps* (Wittmer, 1995)** 雙色異角菊虎

Micropodarbus bicoloriceps Wittmer, 1995a: 117. — Okushima, 2008: 286.
Fissocantharis bicoloriceps: Yang *et al.*, 2012: 52.
 Type locality: near Taman, Taoyuan County, Taiwan. (桃園縣，近塔曼)
 Type depository: Holotype male in NHMB.
 Distribution: Taiwan.

***Fissocantharis biimpresa* (Wittmer, 1982)** 雙印異角菊虎

Kandyosilis biimpresa Wittmer, 1982: 138.
Micropodarbus biimpresus: Kazantsev and Brancucci, 2007: 256.
Fissocantharis biimpresa: Yang *et al.*, 2012: 52.
 Type locality: Wulai, New Taipei City, Taiwan. (新北市烏來)
 Type depository: Holotype male in EUMJ.
 Distribution: Taiwan.

***Fissocantharis chujoi* (Wittmer, 1972)** 中條異角菊虎

Kandyosilis chujoi Wittmer, 1972: 136.
Micropodarbus chujoi: Kazantsev and Brancucci, 2007: 256. — Okushima, 2008: 286.
Fissocantharis chujoi: Yang *et al.*, 2012: 52.
 Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)
 Type depository: Holotype male in EUMJ.
 Distribution: Taiwan.

***Fissocantharis curvicornis* (Wittmer, 1997)** 彎鬚異角菊虎

Kandyosilis uenoi Wittmer, 1995c: 407.

Micropodabrus curvicornis Wittmer, 1997: 311
[new name for *Kandyosilis uenoi* Wittmer, 1995].

Fissocantharis curvicornis: Yang *et al.*, 2012: 52.

Type locality: Hehuanxi, Nantou County, Taiwan. (南投縣合歡溪)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Fissocantharis denominata* (Wittmer, 1997)** 名符異角菊虎

Podabrus formosanus Wittmer, 1954b: 274.

Micropodabrus taiwanus Wittmer, 1982: 130
[new name for *Podabrus formosanus* Wittmer, 1954]; 1995a: 110.

Micropodabrus denominatus Wittmer, 1997: 310
[new name for *Micropodabrus taiwanus* Wittmer, 1982].

Fissocantharis denominata: Yang *et al.*, 2012: 52.

Type locality: Musha [=Wushe], Nantou County, Taiwan. (南投縣霧社)

Type depository: Holotype in CAS.

Distribution: Taiwan.

***Fissocantharis fenchihuensis* (Wittmer, 1982)** 奮起湖異角菊虎

Micropodabrus fenchihuensis Wittmer, 1982: 131.

Fissocantharis fenchihuensis: Yang *et al.*, 2012: 52.

Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Fissocantharis flavipennis* Yang, Okushima & Yang, 2012** 黃鞘異角菊虎

Fissocantharis flavipennis Yang *et al.*, 2012: 48.

Type locality: Nenggaoshan, Nantou County, Taiwan. (南投縣能高山)

Type depository: Holotype male in EUMJ.

Distribution: Taiwan.

***Fissocantharis formosana* (Pic, 1910)** 蓬萊異角菊虎

Rhagonycha formosana Pic, 1910d: 271.

Micropodabrus formosanus: Wittmer, 1982: 129; 1986: 131; 1995a: 112. — Okushima, 2008: 286.

Podabrus curvatipes Pic, 1922b: 4.

Rhagonycha obscurioripes Pic, 1926b: 235.

Micropodabrus simplicicornis Wittmer, 1993a: 209; 1995a: 112.

Fissocantharis formosana: Yang *et al.*, 2012: 47, 52.

Type locality: Taiwan. (臺灣)

Type depository: Type(s) in MNHN.

Distribution: Taiwan.

***Fissocantharis gressitti* (Wittmer, 1954)** 嘉理思異角菊虎

Podabrus gressitti Wittmer, 1954b: 272.

Micropodabrus gressitti: Wittmer, 1982: 132; 1995a: 112. — Okushima, 2008: 288.

Fissocantharis gressitti: Yang *et al.*, 2012: 52.

Type locality: Musha [=Wushe], Nantou County, Taiwan. (南投縣霧社)

Type depository: Holotype in CAS.

Distribution: Taiwan.

***Fissocantharis hualiensis* (Wittmer, 1995)** 花蓮異角菊虎

Micropodabrus hualiensis Wittmer, 1995a: 112.

Fissocantharis hualiensis: Yang *et al.*, 2012: 52.

Type locality: Bilu-Shenmu, Hualien County, Taiwan. (花蓮縣碧綠神木)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Fissocantharis kurosawai* (Wittmer, 1982)** 黑澤異角菊虎

Micropodabrus kurosawai Wittmer, 1982: 132; 1995a: 112.

Fissocantharis kurosawai: Yang *et al.*, 2012: 52.

Type locality: Dawushan, Pingtung County, Taiwan. (屏東縣大武山)

Type depository: Holotype male in NSMT.

Distribution: Taiwan.

***Fissocantharis lishanensis* (Wittmer, 1982)** 梨山異角菊虎

Micropodabrus lishanensis Wittmer, 1982: 131; 1995a: 112.

Fissocantharis lishanensis: Yang *et al.*, 2012: 52.

Type locality: Lishan, Taichung City, Taiwan. (臺中市梨山)

Type depository: Holotype male in EUMJ.

Distribution: Taiwan.

***Fissocantharis laticornis* Yang, Okushima & Yang, 2012** 寬鬚異角菊虎

Fissocantharis laticornis Yang *et al.*, 2012: 51.

Type locality: Hehuanshan, Hualien County, Taiwan. (花蓮縣合歡山)

Type depository: Holotype male in KURA.
Distribution: Taiwan.

***Fissocantharis minor* (Wittmer, 1997)** 微異角菊虎

Micropodabrus minor Wittmer, 1997: 318.

Fissocantharis minor: Yang *et al.*, 2012: 52.

Type locality: near Sileng, Taoyuan County, Taiwan. (桃園縣，近四稜)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Fissocantharis mucronata* (Wittmer, 1979)** 端銳異角菊虎

Kandyosilis mucronata Wittmer, 1979: 333. — Wittmer, 1982: 136 (record from Iriomote-jima, Japan).

Micropodabrus mucronatus: Takahashi *et al.*, 2001: 70.

Fissocantharis mucronata: Yang *et al.*, 2012: 52.

Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)

Type depository: Holotype male in NHMB.

Distribution: Taiwan and the Ryukyus (Iriomote-jima), Japan.

***Fissocantharis multicostata* (Wittmer, 1982)** 多稜異角菊虎

Kandyosilis multicostata Wittmer, 1982: 136.

Micropodabrus multicostatus: Kazantsev and Brancucci, 2007: 257.

Fissocantharis multicostata: Yang *et al.*, 2012: 52.

Type locality: Nanfengshan, Kaohsiung City, Taiwan. (高雄市南鳳山)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Fissocantharis nantouensis* (Wittmer, 1995)** 南投異角菊虎

Micropodabrus nantouensis Wittmer, 1995a: 113. — Okushima, 2008: 288.

Fissocantharis nantouensis: Yang *et al.*, 2012: 52.

Type locality: Hehuanxi, Nantou County, Taiwan. (南投縣合歡溪)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Fissocantharis nodicornis* (Wittmer, 1982)** 瘤鬚異角菊虎

Kandyosilis nodicornis Wittmer, 1982: 137.

Micropodabrus nodicornis: Kazantsev and Brancucci, 2007: 257.

Fissocantharis nodicornis: Yang *et al.*, 2012: 52.

Type locality: Lalashan, Taoyuan County, Taiwan. (桃園縣拉拉山)

Type depository: Holotype male in EUMJ.

Distribution: Taiwan.

***Fissocantharis piluchiensis* (Wittmer, 1995)** 棍節異角菊虎

Micropodabrus piluchiensis Wittmer, 1995a: 114.

Fissocantharis piluchiensis: Yang *et al.*, 2012: 52.

Type locality: Biluxi, Nantou County, Taiwan. (南投縣畢祿溪)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Fissocantharis pingtungensis* (Wittmer, 1982)** 屏東異角菊虎

Micropodabrus pingtungensis Wittmer, 1982: 129; 1995a: 112. — Okushima, 2008: 288.

Fissocantharis pingtungensis: Yang *et al.*, 2012: 52.

Type locality: Kenting National Park, Pingtung County, Taiwan. (屏東縣墾丁公園)

Type depository: Holotype male in EUMJ.

Distribution: Taiwan.

***Fissocantharis satoi* (Wittmer, 1982)** 佐藤異角菊虎

Micropodabrus satoi Wittmer, 1982: 133; 1995a: 111.

Fissocantharis satoi: Yang *et al.*, 2012: 52.

Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Fissocantharis ssulingensis* (Wittmer, 1995)** 四稜異角菊虎

Micropodabrus ssulingensis Wittmer, 1995a: 116.

Fissocantharis ssulingensis: Yang *et al.*, 2012: 52.

Type locality: near Sileng, Taoyuan County, Taiwan. (桃園縣，近四稜)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Fissocantharis subniger* (Wittmer, 1972)** 近墨異角菊虎

Bisadia subnigra Wittmer, 1972: 132.

Kandyosilis subnigra: Wittmer, 1982: 139.

Micropodabrus subniger: Kazantsev and Brancucci, 2007: 258.

Fissocantharis subniger: Yang *et al.*, 2012: 52.
Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)
Type depository: Holotype male in NHMB.
Distribution: Taiwan.

***Fissocantharis taipeiana* (Wittmer, 1982) 臺北異角菊虎**

Micropodabrus taipeianus Wittmer, 1982: 134; 1995a: 111.

Fissocantharis taipeiana: Yang *et al.*, 2012: 52.
Type locality: Wulai, New Taipei City, Taiwan. (新北市烏來)
Type depository: Holotype male in NHMB.
Distribution: Taiwan.

***Fissocantharis taiwana* (Wittmer, 1979) 臺灣異角菊虎**

Kandyosilis taiwana Wittmer, 1979: 332; 1982: 136.

Micropodabrus taiwanus: Wittmer, 1997: 310.

Fissocantharis taiwana: Yang *et al.*, 2012: 52.
Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)
Type depository: Holotype male in NHMB.
Distribution: Taiwan.

***Fissocantharis taoyuana taoyuana* (Wittmer, 1995) 桃園異角菊虎**

Micropodabrus taoyuanus taoyuanus Wittmer, 1995a: 116.

Fissocantharis taoyuanus taoyuanus: Yang *et al.*, 2012: 52.
Type locality: near Sileng, Taoyuan County, Taiwan. (桃園縣，近四稜)
Type depository: Holotype male in NHMB.
Distribution: Taiwan.

***Fissocantharis taoyuana ilanensis* (Wittmer, 1995) 蘭陽異角菊虎**

Micropodabrus taoyuanus ilanensis Wittmer, 1995a: 117.

Fissocantharis taoyuanus ilanensis: Yang *et al.*, 2012: 52.
Type locality: near Chiduan, Yilan County, Taiwan. (宜蘭縣，近池端)
Type depository: Holotype male in NHMB.
Distribution: Taiwan.

***Fissocantharis uenoi* (Wittmer, 1982) 上野異角菊虎**

Micropodabrus uenoi Wittmer, 1982: 130; 1995a: 110.

Fissocantharis uenoi: Yang *et al.*, 2012: 52.
Type locality: Dongpu, Nantou County, Taiwan. (南投縣東埔)
Type depository: Holotype male in NSMT.
Distribution: Taiwan.

Genus *Micropodabrus* Pic, 1920 微雙齒菊虎屬

Micropodabrus Pic, 1920: 6.

Mimopodabrus Wittmer, 1997: 320.

Type species: *Micropodabrus obscurus* Pic, 1920, by monotypy.

Remarks. Yang *et al.* (2009) regarded *Mimopodabrus* Wittmer, 1997 as a junior synonym of *Micropodabrus*, so all of the species of *Mimopodabrus* were transferred to *Micropodabrus*.

***Micropodabrus obscurior* (Wittmer, 1954) 暗色微雙齒菊虎**

Podabrus obscurior Wittmer, 1954b: 272.

Micropodabrus obscurior: Wittmer, 1982: 129; 1995a: 112.

Mimopodabrus obscurior: Wittmer, 1997: 320. — Okushima, 2008: 288.

Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)

Type depository: Holotype male in CAS.
Distribution: Taiwan.

Genus *Lycocerus* Gorham, 1889 異菊虎屬

Lycocerus Gorham, 1889: 108. — Kasantsev, 1999: 123. — Okushima, 2005: 14.

Athemus Lewis, 1895: 110.

Athemellus Wittmer, 1972: 124.

Mikadocantharis Wittmer and Magis, 1978: 137.

Andrathemus Wittmer, 1978: 155.

Isathemus Wittmer, 1995b: 185.

Type species: *Omalysus maculicollis* Hope, 1831, subsequently designated by Delkeskamp (1977).

Remarks: Okushima (2005) regarded *Athemus* Lewis, 1895 and its subgenera, *Athemellus* Wittmer, 1972, *Andrathemus* Wittmer, 1978, *Mikadocantharis* Wittmer & Magis, 1978, and *Isathemus* Wittmer, 1995, as junior synonyms of *Lycocerus*, so all of the species previously placed in those genera were transferred to *Lycocerus*.

***Lycocerus arisanensis* (Wittmer, 1954) 阿里山異菊虎**

Athemus arisanensis Wittmer, 1954b: 278; 1983b: 161.

Lycocerus arisanensis: Okushima, 2005: 54; 2008: 278.

Type locality: Musha [=Wushe], Nantou County, Taiwan. (南投縣霧社)

Type depository: Holotype male in CAS.

Distribution: Taiwan.

***Lycocerus atroopacus* (Pic, 1937) 暗黑異菊虎**

Athemus atroopacus Pic, 1937a: 62. —Wittmer, 1954b: 278; 1983b: 158.

Lycocerus atroopacus: Kazantsev and Brancucci, 2007: 249. — Okushima, 2008: 279.

Type locality: Chosokei [=Shuangxi], New Taipei City, Taiwan. (新北市雙溪)

Type depository: Type(s) in SDEI.

Distribution: Taiwan.

***Lycocerus bipartitus* (Wittmer, 1972) 雙鬩異菊虎**

Athemellus bipartitus Wittmer, 1972: 128; 1983b: 167.

Lycocerus bipartitus: Kazantsev and Brancucci, 2007: 249. — Okushima, 2008: 279.

Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)

Type depository: Holotype male in EUMJ.

Distribution: Taiwan.

***Lycocerus chosokeiensis* (Pic, 1937) 橙艷異菊虎**

Athemus chosokeiensis Pic, 1937a: 63.

Athemus (Andrathemus) chosokeiensis: Wittmer, 1983b: 163.

Lycocerus chosokeiensis: Okushima, 2005: 152; 2008: 279.

Type locality: Chosokei [=Shuangxi], New Taipei City, Taiwan. (新北市雙溪)

Type depository: Type(s) in SDEI?.

Distribution: Taiwan.

***Lycocerus chujoi* (Wittmer, 1972) 中條異菊虎**

Athemellus chujoi Wittmer, 1972: 128; 1983b: 166.

Lycocerus chujoi: Okushima, 2005: 159; 2008: 279.

Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)

Type depository: Holotype male in EUMJ.

Distribution: Taiwan.

***Lycocerus costulatus* Wittmer, 1972 帶稜異菊虎**

Lycocerus costulatus Wittmer, 1972: 134. — Kazantsev and Brancucci, 2007: 250. — Okushima, 2008: 279.

Athemellus costulatus: Wittmer, 1983b: 168.

Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)

Type depository: Holotype male in EUMJ.

Distribution: Taiwan.

***Lycocerus elongatipes* (Wittmer, 1972) 細身異菊虎**

Athemellus elongatipes Wittmer, 1972: 127.

Athemus elongatipes: Wittmer, 1983b: 163.

Lycocerus elongaticeps [sic!]: Kazantsev and Brancucci, 2007: 250.

Lycocerus elongatipes: Okushima, 2008: 280.

Type locality: Fuhosho [=Wucheng], Nantou County, Taiwan. (南投縣五城)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Lycocerus fainanus* (Pic, 1910) 臺南琉璃異菊虎**

Cantharis fainana Pic, 1910b: 77.

Athemus fainanus: Wittmer, 1983b: 157.

Themus hickeri Pic, 1934: 54.

Athemus flavonotaticeps Pic, 1937a: 63.

Lycocerus flavonotaticeps: Kazantsev and Brancucci, 2007: 48, 250.

Athemus flavonotaticeps var. *obliterata* Pic, 1937a: 63.

Lycocerus fainanus: Okushima, 2007a: 130; 2008: 280. — Kazantsev and Brancucci, 2007: 250.

Type locality: Fainan [=Tainan] City, Taiwan. (Tainan誤拼，臺南市)

Type depository: Type(s) in MHNN.

Distribution: Taiwan.

Remarks: Kazantsev and Brancucci (2007) treated *Athemus flavonotaticeps* var. *obliterata* Pic, 1937 as a junior synonym of *Lycocerus flavonotaticeps* (Pic, 1937) without examining the types. However, the latter was regarded as a junior synonym of *Athemus fainanus* (Pic, 1910) in Wittmer (1983b). *Athemus flavonotaticeps* var. *obliterata* is undoubtedly a junior synonym of *Cantharis fainana* Pic, 1910 based on an examination of the holotypes, although the former is very small in size (with a body length of 11.5 mm) for this species.

***Lycocerus flavimarginalis* Okushima, 2007 黃邊琉璃異菊虎**

Lycocerus flavimarginalis Okushima, 2007a: 134.

Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)

Type depository: Holotype male in TUA.

Distribution: Taiwan.

***Lycocerus gracilitarsis* (Pic, 1921) 纖跗異菊虎**

Cantharis gracilitarsis Pic, 1921a: 30.

Athemus gracilitarsis: Wittmer, 1983b: 162.

Lycocerus gracilitarsis: Kazantsev and Brancucci, 2007: 250. — Okushima, 2008: 280.

Type locality: Taihorin [=Dalin], Chiayi County, Taiwan. (嘉義縣大林)

Type depository: Holotype male in MNHN.

Distribution: Taiwan.

***Lycocerus gressitti* (Wittmer, 1954) 嘉理思異菊虎**

Athemus gressitti Wittmer, 1954b: 279; 1983b: 160.

Lycocerus gressitti: Kazantsev and Brancucci, 2007: 250. — Okushima, 2008: 280.

Type locality: Musha [=Wushe], Nantou County, Taiwan. (南投縣霧社)

Type depository: Holotype in CAS.

Distribution: Taiwan.

***Lycocerus hansii* (Švihla, 2004) 漢斯異菊虎**

Cantharis sauteri Pic, 1926a: 68.

Athemellus sauteri: Wittmer, 1983b: 167.

Lycocerus sauteri: Kazantsev and Brancucci, 2007: 253.

Athemus (Athemellus) hansii Švihla, 2004: 179 [new name for *Cantharis sauteri* Pic, 1926].

Lycocerus hansii: Okushima, 2005: 149. — Kazantsev and Brancucci, 2007: 250.

Type locality: Taihorin [=Dalin], Chiayi County, Taiwan. (嘉義縣大林)

Type depository: Holotype female in SDEI.

Distribution: Taiwan.

***Lycocerus lalaensis* (Wittmer, 1983) 拉拉山異菊虎**

Athemus lalaensis Wittmer, 1983b: 159.

Lycocerus lalaensis: Kazantsev and Brancucci, 2007: 251.

Type locality: NE slope of Lalashan, New Taipei City, Taiwan. (新北市，拉拉山東北坡)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Lycocerus maculiceps* (Wittmer, 1983) 斑椿異菊虎**

Athemus maculiceps Wittmer, 1983b: 161.

Lycocerus maculiceps: Kazantsev and Brancucci, 2007: 251. — Okushima, 2008: 281.

Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Lycocerus maculithorax* (Wittmer, 1972) 斑胸異菊虎**

Athemellus maculithorax Wittmer, 1972: 126; 1983b: 165.

Lycocerus maculithorax: Okushima, 2005: 159; 2008: 281.

Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)

Type depository: Holotype male in EUMJ.

Distribution: Taiwan.

***Lycocerus masatakai* Okushima, 2007 正孝琉璃異菊虎**

Lycocerus masatakai Okushima, 2007a: 131; 2008: 281.

Type locality: near Lalashan, Taoyuan County, Taiwan. (桃園縣，近拉拉山)

Type depository: Holotype male in NMNS.

Distribution: Taiwan.

***Lycocerus metallescens metallescens* (Gorham, 1889) 金艷異菊虎**

Telephorus metallescens Gorham, 1889: 107.

Themus metallescens: Wittmer, 1954a: 109.

Athemellus metallescens: Wittmer, 1983b: 165.

Lycocerus metallescens metallescens: Kazantsev and Brancucci, 2007: 251. — Okushima, 2007b: 261; 2008: 281.

Type locality: Jiujiang, Jiangxi Province, China. (中國江西省，九江)

Type depository: Lectotype male in MNHN.

Distribution: China and Taiwan.

Remarks: Another subspecies *L. m. fukienensis* (Wittmer, 1954) is known from Fujian Province, China.

***Lycocerus nanshanensis* (Wittmer, 1983) 南山異菊虎**

Athemus nanshanensis Wittmer, 1983b: 162.

Lycocerus nanshanensis: Kazantsev and

Brancucci, 2007: 252. — Okushima, 2008: 281.
 Type locality: Nanshanxi, Nantou County, Taiwan. (南投縣南山溪)
 Type depository: Holotype male in NHMB.
 Distribution: Taiwan.

***Lycocerus nigricollis* Wittmer, 1984** 角鬚緋異菊虎

Lycocerus nigricollis Wittmer, 1984: 141. — Okushima, 2005: 136; 2008: 281.

Athemus nigricollis: Kasantsev, 1999: 117.
 Type locality: Taoyuan County, Taiwan. (桃園縣)
 Type depository: Holotype male in NSMT.
 Distribution: Taiwan.

***Lycocerus nigripennis* (Pic, 1938)** 小青黑異菊虎

Malthinus atripennis Pic, 1922a: 30.
Athemellus atripennis: Wittmer, 1983b: 168.
Lycocerus atripennis: Kazantsev and Brancucci, 2007: 249.

Malthinus nigripennis Pic, 1938: 121 [new name for *Malthinus atripennis* Pic, 1922].

Lycocerus nigripennis: Okushima, 2007b: 260; 2008: 282.

Podabrinus taihokuensis Wittmer, 1954b: 276.
 Type locality: Taiwan. (臺灣)
 Type depository: Holotype female in SDEI.
 Distribution: Taiwan.

***Lycocerus pictus* (Wittmer, 1983)** 紋繪異菊虎

Athemellus pictus Wittmer, 1983b: 170.
Lycocerus pictus: Okushima, 2005: 242; 2008: 282.
 Type locality: Nanshanxi, Nantou County, Taiwan. (南投縣南山溪)
 Type depository: Holotype male in NHMB.
 Distribution: Taiwan.

***Lycocerus pilipes* (Pic, 1910)** 毛足異菊虎

Podabrus pilipes Pic, 1910d: 271.
Pseudoabsidia pilipes: Wittmer, 1969: 129.
Athemus (Andrathemus) pilipes: Wittmer, 1983b: 164.
Lycocerus pilipes: Kazantsev and Brancucci, 2007: 253. — Okushima, 2008: 282.
 Type locality: Taiwan. (臺灣)
 Type depository: Holotype male in MNHN.
 Distribution: Taiwan.

***Lycocerus pubescens* (Wittmer, 1983)** 柔毫異菊虎

Athemellus pubescens Wittmer, 1983b: 167.

Lycocerus pubescens: Kazantsev and Brancucci, 2007: 253.

Type locality: Meifeng, Nantou County, Taiwan. (南投縣梅峰)
 Type depository: Holotype male in NHMB.
 Distribution: Taiwan.

***Lycocerus russulus* Okushima & Yang, 2013** 緋色異菊虎

Lycocerus pluricostatus: Wittmer, 1984: 142. [misidentification].

Lycocerus russulus Okushima and Yang, 2013: 90.

Type locality: near Tachi [=Daxi], Taoyuan County, Taiwan. (桃園縣，近大溪)
 Type depository: Holotype male in NHMB.
 Distribution: Taiwan.

***Lycocerus rhagonychiformis* (Wittmer, 1983)** 擬黑姬異菊虎

Athemellus rhagonychiformis Wittmer, 1983b: 169.

Lycocerus rhagonychiformis: Kazantsev and Brancucci, 2007: 253. — Okushima, 2008: 284.

Type locality: NE slope of Lalashan, New Taipei City, Taiwan. (新北市，拉拉山東北坡)
 Type depository: Holotype male in NHMB.
 Distribution: Taiwan.

***Lycocerus satoi* Okushima, 2007** 佐藤琉璃異菊虎

Lycocerus satoi Okushima, 2007a: 137.
 Type locality: Tengzhi, Kaohsiung City, Taiwan. (高雄市藤枝)
 Type depository: Holotype male in NMNS.
 Distribution: Taiwan.

***Lycocerus semicyaneus* (Wittmer, 1983)** 靛青異菊虎

Athemellus semicyaneus Wittmer, 1983b: 164.
Lycocerus semicyaneus: Kazantsev and Brancucci, 2007: 253. — Okushima, 2008: 284.
 Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)
 Type depository: Holotype male in NHMB.
 Distribution: Taiwan.

***Lycocerus shimomurai* (Wittmer, 1983)** 下村氏異菊虎

Athemus shimomurai Wittmer, 1983b: 160.
Lycocerus shimomurai: Kazantsev and Brancucci, 2007: 253. — Okushima, 2008: 284.
 Type locality: near Chiduan, Taoyuan County,

Taiwan. (桃園縣，近池端)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Lycocerus taoyuanus* (Wittmer, 1983)** 桃園琉璃異菊虎

Athemus taoyuanus Wittmer, 1983b: 158.

Lycocerus taoyuanus: Okushima, 2007a: 130; 2008: 284.

Type locality: near Chiduan, Taoyuan County, Taiwan. (桃園縣，近池端)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Lycocerus tsuifengensis* (Wittmer, 1983)** 翠峰異菊虎

Athemellus tsuifengensis Wittmer, 1983b: 166.

Lycocerus tsuifengensis: Kazantsev and Brancucci, 2007: 254.

Type locality: Cuifeng, Nantou County, Taiwan. (南投縣翠峰)

Type depository: Holotype male in EUMJ.

Distribution: Taiwan.

***Lycocerus wulaianus* (Wittmer, 1983)** 烏來異菊虎

Athemus wulaianus Wittmer, 1983b: 163.

Lycocerus wulaianus: Kazantsev and Brancucci, 2007: 254. — Okushima, 2008: 284.

Type locality: Wulai, New Taipei City, Taiwan. (新北市烏來)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

Genus *Habronychus* Wittmer, 1981 長角菊虎屬

Habronychus Wittmer, 1981: 399 (preliminary description); 1982: 124. — Okushima and Satô, 1999b: 388. — Brancucci, 2007: 55. — Kopetz, 2008: 195.

Type species: *Anolis rubicundus* Champion, 1926, fixed by monotypy.

Remarks. *Macrohabronychus* Wittmer, 1981 was described as a subgenus of *Habronychus* which was actually published 1 year later than the former. Accordingly Brancucci (2007) argued for using *Macrohabronychus* as the valid genus name and rendered *Habronychus* as a subgenus of the former. Another subgenus, *Habronychus* (*Monohabronychus*) Okushima & Satô, 1999, was placed in *Macrohabronychus* by Brancucci (2007). *Habronychus* was reinstated as the valid genus name by Kopetz (2008) who claimed

the diagnosis of *Habronychus* given by Wittmer (1981) satisfied ICZN Article 13, and *Anolis rubicundus* Champion should be fixed as its type species by monotypy. Designation of *Malthinus sauteri* Pic, 1934 as the type species by Wittmer (1982) is invalid. This viewpoint was followed by Yang *et al.* (2009) and this study.

***Habronychus* (*Habronychus*) *kurosawai* Wittmer, 1982** 黑澤長角菊虎

Habronychus kurosawai Wittmer, 1982: 126.

Habronychus (*Habronychus*) *kurosawai*: Okushima and Satô, 1999b: 393.

Macrohabronychus (s. str.) *kurosawai*: Brancucci, 2007: 55.

Macrohabronychus (*Habronychus*) *kurosawai*: Kazantsev and Brancucci, 2007: 254. — Okushima, 2008: 284.

Type locality: Bilu-Shenmu, Hualien County, Taiwan. (花蓮縣碧綠神木)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Habronychus* (*Habronychus*) *nantouanus* Wittmer, 1982** 南投長角菊虎

Habronychus nantouanus Wittmer, 1982: 125.

Habronychus (*Habronychus*) *nantouanus*: Okushima and Satô, 1999b: 391.

Macrohabronychus (s. str.) *nantouanus*: Brancucci, 2007: 55.

Macrohabronychus (*Habronychus*) *nantouanus*: Kazantsev and Brancucci, 2007: 255.

Type locality: Meifeng, Nantou County, Taiwan. (南投縣梅峰)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Habronychus* (*Habronychus*) *sauteri* (Pic, 1934)** 紹德長角菊虎

Malthinus sauteri Pic, 1934: 46.

Habronychus sauteri: Wittmer, 1982: 125.

Habronychus (*Habronychus*) *sauteri*: Okushima and Satô, 1999b: 390.

Macrohabronychus (s. str.) *sauteri*: Brancucci, 2007: 55.

Macrohabronychus (*Habronychus*) *sauteri*: Kazantsev and Brancucci, 2007: 255. — Okushima, 2008: 285.

Type locality: Gangkou, Pingtung County, Taiwan. (屏東縣港口)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

Subgenus *Monohabronychus* Okushima & Satô, 1999 單爪菊虎亞屬

Monohabronychus Okushima and Satô, 1999b: 394.

Type species: *Podabrinus intermixtus* Wittmer, 1954, by original designation.

***Habronychus (Monohabronychus) furcatus* (Wittmer, 1986)** 叉形單爪菊虎

Stenothemus furcatus Wittmer, 1986: 131.

Habronychus (Monohabronychus) furcatus: Okushima and Satô, 1999b: 397.

Macrohabronychus (Monohabronychus) furcatus: Brancucci, 2007: 55.

Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Habronychus (Monohabronychus) intermixtus* (Wittmer, 1954)** 中線單爪菊虎

Podabrinus intermixtus Wittmer, 1954b: 275.

Athemellus intermixtus: Wittmer, 1972: 124; 1983b: 168.

Habronychus (Monohabronychus) intermixtus: Okushima and Satô, 1999b: 394.

Macrohabronychus (Monohabronychus) intermixtus: Brancucci, 2007: 55. — Okushima, 2008: 285.

Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)

Type depository: Holotype in CAS.

Distribution: Taiwan.

***Habronychus (Monohabronychus) lalashanensis* Okushima & Satô, 1999** 拉拉山單爪菊虎

Habronychus (Monohabronychus) lalashanensis Okushima and Satô, 1999b: 400.

Macrohabronychus (Monohabronychus) lalashanensis: Brancucci, 2007: 55.

Type locality: Lalashan, Taoyuan County, Taiwan. (桃園縣拉拉山)

Type depository: Holotype male in KURA.

Distribution: Taiwan.

***Habronychus (Monohabronychus) longicornis* Okushima & Satô, 1999** 長角單爪菊虎

Habronychus (Monohabronychus) longicornis Okushima and Satô, 1999b: 398.

Macrohabronychus (Monohabronychus) longicornis: Brancucci, 2007: 55.

Type locality: Fushan Botanical Garden, Yilan County, Taiwan. (宜蘭縣福山植物園)

Type depository: Holotype male in EUMJ.

Distribution: Taiwan.

***Habronychus (Monohabronychus) multilimbatus* (Pic, 1910)** 粗腿單爪菊虎

Podabrus multilimbatus Pic, 1910d: 271.

Podabrinus multilimbatus: Wittmer, 1954b: 275.

Pseudoabsidia multilimbata: Wittmer, 1969: 128.

Athemellus multilimbatus: Wittmer, 1972: 126; 1983b: 171.

Habronychus (Monohabronychus) multilimbatus: Okushima, 2003: 351.

Stenothemus multilimbatus: Švihla, 2004: 203.

Macrohabronychus (Monohabronychus) multilimbatus: Brancucci, 2007: 55. — Okushima, 2008: 285.

Podabrinus ? humeralis Wittmer, 1952 [1951]: 100.

Podabrinus humeralis: Wittmer, 1955: 40.

Pseudoabsidia humeralis: Wittmer, 1969: 128.

Athemellus humeralis: Wittmer, 1972: 124.

Type locality: Taiwan. (臺灣)

Type depository: Holotype female in MNHN.

Distribution: Taiwan and China (Fujian Province).

Genus *Prothemus* Champion, 1926 圓胸菊虎屬

Prothemus Champion, 1926: 195.

Type species: *Prothemus neglectus* Champion, 1926, by original designation.

***Prothemus chinensis* Wittmer, 1987** 中華圓胸菊虎

Prothemus monochrous: Wittmer, 1984: 147. [misidentification]

Prothemus chinensis Wittmer, 1987: 75. — Okushima, 2008: 289.

Type locality: Bilu-Shenmu, Hualien County, Taiwan. (花蓮縣碧綠神木)

Type depository: Holotype male in NHMB.

Distribution: China and Taiwan.

***Prothemus hisamatsui* Wittmer, 1984** 灰胸圓胸菊虎

Prothemus hisamatsui Wittmer, 1984: 144. — Okushima, 2008: 289.

Type locality: Songgang-Meifeng, Nantou

County, Taiwan. (南投縣松崗至梅峰)
Type depository: Holotype male in EUMJ.
Distribution: Taiwan.

***Prothemus kanoi* Wittmer, 1984** 鹿野氏圓胸菊虎

Prothemus kanoi Wittmer, 1984: 146. — Okushima and Satô, 1997b: 339 (record from Ryukyu, Japan). — Okushima, 2008: 289.

Type locality: Taiheizan [=Taipingshan], Yilan County, Taiwan. (宜蘭縣太平山)

Type depository: Holotype male in NSMT.

Distribution: Taiwan and the Ryukyus (Ishigaki-jima and Iriomote-jima), Japan.

***Prothemus limbolarius* (Fairmaire, 1900)** 邊紋圓胸菊虎

Telephorus limbolarius Fairmaire, 1900 [1899]: 628.

Prothemus limbolarius: Wittmer, 1954a: 110; 1954b: 280; 1984: 146. — Okushima, 2008: 289.

Cantharis limbolaria var. *fainanensis* Pic, 1916: 4.

Type locality: Sichuan Province, China. (中國四川省)

Type depository: Type(s) in MNHN.

Distribution: China and Taiwan.

***Prothemus minor* Wittmer, 1984** 姬圓胸菊虎

Prothemus minor Wittmer, 1984: 145.

Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

Remarks: Kazantsev and Brancucci (2007) mentioned that this species is distributed in Taiwan and also in Fujian Province (China) without voucher specimens. The record is a mistake because we could find no other references or specimens of the species from Fujian. Therefore, we consider *P. minor* not to be distributed in China.

***Prothemus notsui* Wittmer, 1984** 野津氏圓胸菊虎

Prothemus notsui Wittmer, 1984: 144. — Okushima, 2008: 289.

Type locality: Kenting, Pingtung County, Taiwan. (屏東縣墾丁)

Type depository: Holotype male in EUMJ.

Distribution: Taiwan.

***Prothemus piluensis* Wittmer, 1987** 碧綠圓胸菊虎

Prothemus piluensis Wittmer, 1987: 80.

Type locality: Bilu-Shenmu, Hualien County, Taiwan. (花蓮縣碧綠神木)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Prothemus shibatai* Okushima, 2008** 柴田氏圓胸菊虎

Prothemus shibatai Okushima, 2008: 274.

Type locality: Songgang, Nantou County, Taiwan. (南投縣松崗)

Type depository: Holotype male in NMNS.

Distribution: Taiwan.

***Prothemus varicolor* Wittmer, 1954** 多色圓胸菊虎

Prothemus varicolor Wittmer, 1954b: 280; 1984: 144. — Okushima, 2008: 290.

Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)

Type depository: Holotype in CAS.

Distribution: Taiwan.

***Prothemus watanabei* Okushima & Satô, 2002** 渡邊氏圓胸菊虎

Prothemus watanabei Okushima and Satô, 2002: 348. — Okushima, 2008: 290.

Type locality: Meifeng, Nantou County, Taiwan. (南投縣梅峰)

Type depository: Holotype male in TUA.

Distribution: Taiwan.

Genus *Rhagonycha* Eschscholtz, 1830 黑姬菊虎屬

Rhagonycha Eschscholtz, 1830: 64. — Kazantsev, 1995: 91.

Type species: *Cantharis fulva* Scopoli, 1763, subsequently designated by Delkeskamp (1977).

***Rhagonycha (Rhagonycha) micheli* Okushima & Yang, 2013** 米榭黑姬菊虎

Rhagonycha limbatipennis: Wittmer, 1982: 135. [misidentification]

Rhagonycha (Rhagonycha) micheli Okushima and Yang, 2013: 93.

Type locality: Shitoushan, Miaoli County, Taiwan. (苗栗縣獅頭山)

Type depository: Holotype male in MHNH.

Distribution: Taiwan.

***Rhagonycha (Rhagonycha) taiwanonigra* Wittmer, 1982** 臺灣黑姬菊虎

Rhagonycha taiwanonigra Wittmer, 1982: 135.
Rhagonycha (Rhagonycha) taiwanonigra:
Kazantsev and Brancucci, 2007: 267.

Type locality: near Sileng, Taoyuan County,
Taiwan. (桃園縣, 近四稜)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

Genus *Stenothemus* Bourgeois, 1907 狹胸菊虎屬

Stenothemus Bourgeois, 1907: 292. — Wittmer,
1974: 49. — Okushima and Satô, 1999a: 132.

Type species: *Themus harmandi* Bourgeois, 1902,
subsequently designated by Wittmer (1974).

***Stenothemus mamorui* Okushima & Satô, 1999**
棕背狹胸菊虎

Stenothemus mamorui Okushima and Satô,
1999a: 137.

Type locality: Xicun, Taoyuan County,
Taiwan. (桃園縣西村)

Type depository: Holotype male in NSMT.

Distribution: Taiwan.

***Stenothemus owadai* Okushima & Satô, 1997**
和田氏狹胸菊虎

Stenothemus owadai Okushima and Satô, 1997a:
85; 1999a: 132. — Hsiao, 2014: 56.

Type locality: Meifeng, Nantou County,
Taiwan. (南投縣梅峰)

Type depository: Holotype male in KURA.

Distribution: Taiwan.

***Stenothemus taiwanus* Okushima & Satô, 1997**
臺灣狹胸菊虎

Stenothemus taiwanus Okushima and Satô,
1997a: 88; 1999a: 136. — Hsiao and Yang, 2014:
22.

Type locality: Meifeng, Nantou County,
Taiwan. (南投縣梅峰)

Type depository: Holotype male in KURA.

Distribution: Taiwan.

***Stenothemus wittmeri* Okushima & Satô, 1999**
魏氏狹胸菊虎

Stenothemus wittmeri Okushima and Satô, 1999a:
133. — Okushima, 2008: 290.

Type locality: Songgang, Nantou County,
Taiwan. (南投縣松崗)

Type depository: Holotype male in EUMJ.

Distribution: Taiwan.

Genus *Themus* Motschulsky, 1857 麗菊虎屬

Themus Motschulsky, 1857: 27. — Wittmer,
1973b: 186; 1983a: 189. — Švihla, 2008: 184.

Type species: *Themus cyanipennis* Motschulsky,
1857, by monotypy.

***Themus (Themus) explanaticollis* (Pic, 1917)**
大麗菊虎

Cantharis explanaticollis Pic, 1917: 5.

Themus explanaticollis: Wittmer, 1954b: 276.

Themus (Haplothemus) explanaticollis: Wittmer,
1983b: 149. — Okushima, 2008: 290.

Themus (Themus) explanaticollis: Švihla, 2008:
184.

Type locality: Taiwan. (臺灣)

Type depository: Type(s) in MNHN.

Distribution: Taiwan.

***Themus (Themus) formosanus* Wittmer, 1954**
蓬萊麗菊虎

Themus hypopelius formosanus Wittmer, 1954b:
277.

Themus (s. str.) *formosanus*: Wittmer, 1983b: 149.

Themus (Themus) formosanus: Kazantsev and
Brancucci, 2007: 271. — Okushima, 2008: 292.

Type locality: Alishan, Chiayi County,
Taiwan. (嘉義縣阿里山)

Type depository: Holotype in CAS.

Distribution: Taiwan.

***Themus (Themus) nobuoi* Okushima & Satô,
2000** 大林氏麗菊虎

Themus (Themus) nobuoi Okushima and Satô,
2000: 147.

Type locality: Lushan Hot Springs, Nantou
County, Taiwan. (南投縣廬山溫泉)

Type depository: Holotype male in EUMJ.

Distribution: Taiwan.

***Themus (Themus) pallidipes* Wittmer, 1954**
黛青麗菊虎

Themus pallidipes Wittmer, 1954b: 277.

Themus (Haplothemus) pallidipes: Wittmer,
1983b: 151.

Themus (Themus) pallidipes: Okushima, 2008:
292.

Type locality: Alishan, Chiayi County,
Taiwan. (嘉義縣阿里山)

Type depository: Holotype in CAS.

Distribution: Taiwan.

***Themus (Themus) purpuratus* Wittmer, 1983** 紫翅麗菊虎

Themus (s. str.) *purpuratus* Wittmer, 1983b: 151.
Themus (Themus) purpuratus: Kazantsev and Brancucci, 2007: 272. — Okushima, 2008: 293.

Type locality: Lianhuachi, Nantou County, Taiwan. (南投縣蓮花池)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Themus (Themus) satoi* Wittmer, 1983** 佐藤麗菊虎

Themus leechianus: Wittmer, 1954b: 277 [misidentification].

Themus (Haplothemus) satoi Wittmer, 1983b: 149. — Okushima, 2008: 292.

Themus (Themus) satoi: Švihla, 2008: 185.

Type locality: Taiwan. (臺灣)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Themus (Themus) subopacipennis* (Pic, 1910)** 翠瑩麗菊虎

Cantharis subopacipennis Pic, 1910b: 77.

Themus (s. str.) *subopacipennis*: Wittmer, 1983b: 150.

Themus (Themus) subopacipennis: Kazantsev and Brancucci, 2007: 273. — Okushima, 2008: 293.

Type locality: Taiwan. (臺灣)

Type depository: Type(s) in MNHN.

Distribution: Taiwan.

***Themus (Themus) taiwanus* Wittmer, 1983** 臺灣麗菊虎

Themus confusus: Wittmer, 1954b: 277 [misidentification].

Themus (s. str.) *taiwanus* Wittmer, 1983b: 148.

Themus (Themus) taiwanus: Kazantsev and Brancucci, 2007: 273. — Okushima, 2008: 293.

Type locality: Lishan-Tianxiang, Taichung City to Hualien County, Taiwan. (臺中市梨山至花蓮縣天祥)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

Subgenus *Telephorops* Fairmaire, 1886 凹翅麗菊虎亞屬

Telephorops Fairmaire, 1886: 339. — Wittmer, 1983a: 197. — Švihla, 2008: 185.

Tryblius Fairmaire, 1897: 228.

Type species: *Telephorops impressipennis* Fairmaire, 1886, by monotypy.

***Themus (Telephorops) bicoloricornis* Wittmer, 1983** 雙色凹翅麗菊虎

Themus (Telephorops) bicoloricornis Wittmer, 1983b: 153; Wittmer, 1983a: 197.

Type locality: Songgang-Cuifeng, Nantou County, Taiwan. (南投縣松崗至翠峰)

Type depository: Holotype male in EUMJ.

Distribution: Taiwan.

***Themus (Telephorops) impressipennis* (Fairmaire, 1886)** 壓印凹翅麗菊虎

Telephorops impressipennis Fairmaire, 1886: 339.

Themus (Telephorops) impressipennis: Wittmer, 1983b: 153. — Okushima, 2008: 292.

Type locality: K.Tchéou [=Guizhou Province], China. (中國貴州省)

Type depository: Holotype male in MNHN.

Distribution: China and Taiwan.

***Themus (Telephorops) sauteri* (Pic, 1912)** 梭德凹翅麗菊虎

Cantharis sauteri Pic, 1912b: 46.

Themus sauteri: Wittmer, 1954b: 276.

Themus (Telephorops) sauteri: Wittmer, 1983a: 197; 1983b: 153. — Okushima, 2008: 292.

Type locality: Tai Korinsko [=Dalin], Chiayi County, Taiwan. (可能是Taihorinsho誤拼，嘉義縣大林)

Type depository: Holotype male in SDEI.

Distribution: Taiwan.

***Themus (Telephorops) uniformis* Wittmer, 1983** 純色凹翅麗菊虎

Themus (s. str.) *bitinctus uniformis* Wittmer, 1983a: 218.

Themus (s. str.) *cribripennis* Wittmer, 1983b: 151.

Themus (Themus) bitinctus uniformis: Kazantsev and Brancucci, 2007: 271.

Themus (Themus) cribripennis: Kazantsev and Brancucci, 2007: 271.

Themus (Telephorops) bitinctus uniformis: Švihla, 2008: 187.

Themus (Telephorops) cribripennis: Švihla, 2008: 187.

Themus (Telephorops) uniformis: Yang *et al.*, 2013: 5.

Type locality: Fujian Province, China. (中國福建)

Type depository: Holotype male in NHMB.
Distribution: China (Fujian Province) and Taiwan.

Genus *Walteriella* Kazantsev, 2001 華爾特菊虎屬

Walteria Kasantsev, 1999: 117.

Walteriella Kazantsev, 2001: 1081 [new name for *Walteria* Kasantsev, 1999].

Type species: *Lycocerus particularis* Pic, 1923, by original designation.

***Walteriella brunnea* (Wittmer, 1955), comb. nov.** 褐艷華爾特菊虎

Figs. 1, 2.

Podabrinus brunneus Wittmer, 1955: 40.

Pseudoabisidia brunneus Wittmer, 1969: 128.

Athemellus brunneus: Wittmer, 1972: 124.

Lycocerus brunneus: Kazantsev and Brancucci, 2007: 249.

Type locality: Taiheizan [=Taipingshan], Yilan County, Taiwan. (宜蘭縣太平山)

Type depository: Holotype male in CAS.

Distribution: Taiwan.

Material examined. 2 ♂♂, Lalashan, Taoyuan, Taiwan, 14. V. 2009, C.-F. Lee leg. (TARI).

Remarks: We examined photos of the holotype taken by an NMNS team in CAS and some determined specimens in TARI. We do not think it is proper to place the species in *Lycocerus*, *Podabrinus*, *Pseudobidia*, or *Athemellus* as previous studies have done. Instead, the species appears to match *Walteriella* Kazantsev, 2001 with a combination of the following features: antennomeres more or less depressed; pronotum elongate and narrowed posteriorly, with lateral margins flattened and dilated at anterior angles; elytra reddish and covered with dense double pubescence; and leg with long bristling hairs; aedeagus oval, with an apical lock of the dorsal plate, which is likely a synapomorphy of this genus. Although this species does not fit *Walteriella* by the indistinct costae and the lack of a small tooth at the base of each outer claw, we prefer to place this species in the genus *Walteriella*.

***Walteriella sanguinea brevemarginata* (Wittmer, 1983)** 短邊華爾特菊虎

Athemellus sanguineus brevemarginatus Wittmer, 1983b: 169.

Lycocerus sanguineus brevemarginatus: Kazantsev and Brancucci, 2007: 253.

Walteriella sanguinea brevemarginata: Okushima, 2008: 293.

Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)

Type depository: Holotype female in NHMB.

Distribution: Taiwan.

***Walteriella taiwana* (Kasantsev, 1999)** 臺灣華爾特菊虎

Lycocerus subquadraticollis: Wittmer, 1984: 141 [misidentification].

Walteria taiwana Kasantsev, 1999: 120.

Walteriella taiwana: Kazantsev and Brancucci, 2007: 273. — Okushima, 2008: 294.

Type locality: near Chiduan, Taoyuan County, Taiwan. (桃園縣，近池端)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

SILINAE 熒菊虎亞科

Tribe Silini 熒菊虎族

Genus *Laemoglyptus* Fairmaire, 1886 櫛角菊虎屬

Laemoglyptus Fairmaire, 1886: 334. — Wittmer, 1948: 169; 1984: 149.

Drilosilis Pic, 1911b: 188.

Type species: *Laemoglyptus fussiventris* Fairmaire, 1886, by monotypy.

***Laemoglyptus atripes* Pic, 1921** 黑足櫛角菊虎

Laemoglyptus grandis var. *atripes* Pic, 1921b: 7.

Laemoglyptus atripes: Wittmer, 1948: 169; 1984: 152 [incertae sedis]. — Kazantsev and Brancucci, 2007: 275.

Type locality: Taiwan. (臺灣)

Type depository: Holotype female in MNHN.

Distribution: Taiwan.

***Laemoglyptus chujoi* Wittmer, 1972** 中條氏櫛角菊虎

Laemoglyptus chujoi Wittmer, 1972: 138; 1984: 151. — Okushima, 2008: 294.

Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)

Type depository: Holotype in EUMJ.

Distribution: Taiwan.

***Laemoglyptus grandis* Pic, 1921** 華巍櫛角菊虎

Laemoglyptus grandis Pic, 1921b: 7. — Wittmer,

1948: 170; 1972: 139; 1984: 151. — Okushima, 2008: 294.

Type locality: Taiwan. (臺灣)

Type depository: Lectotype male in MNHN.

Distribution: Taiwan.

***Laemoglyptus pingtungensis* Wittmer, 1984** 屏東櫛角菊虎

Laemoglyptus pingtungensis Wittmer, 1984: 150. — Okushima, 2008: 295.

Type locality, Kenting, Pingtung County, Taiwan. (屏東縣墾丁)

Type depository: Holotype in EUMJ.

Distribution: Taiwan.

***Laemoglyptus rubrithorax* (Pic, 1912)** 紅胸櫛角菊虎

Drilosilis rubrithorax Pic, 1912a: 13.

Laemoglyptus rubrithorax: Wittmer, 1948: 172; 1984: 151. — Okushima, 2008: 295.

Type locality: Taihorinsho [=Dalin], Chiayi County, Taiwan. (嘉義縣大林)

Type depository: Holotype female in MNHN.

Distribution: Taiwan.

***Laemoglyptus sauteri* (Pic, 1911)** 梭德櫛角菊虎

Drilosilis sauteri Pic, 1911c: 188.

Laemoglyptus sauteri: Wittmer, 1948: 172; 1984: 152 [incertae sedis]. — Kazantsev and Brancucci, 2007: 275.

Type locality: Kosempo [=Jiashian], Kaohsiung City and Taihorinsho [=Dalin] Chiayi County, Taiwan. (高雄市甲仙；嘉義縣大林)

Type depository: Syntype in SDEI.

Distribution: Taiwan.

***Laemoglyptus subspinosus* Pic, 1910** 疏毛櫛角菊虎

Laemoglyptus subspinosus Pic, 1910c: 259; 1937b: 188. — Champion, 1926: 205. — Wittmer, 1948: 172; 1984: 150. — Okushima, 2008: 295.

Type locality: Taihorinsho [=Dalin] Chiayi County, Taiwan. (嘉義縣大林)

Type depository: Lectotype in SDEI.

Distribution: Taiwan.

Remarks: Kazantsev and Brancucci (2007) listed both Taiwan and the Ryukyus (Japan) as the geographic distribution of this species without voucher specimens. The record of the Ryukyu is likely based on Wittmer (1970). In fact, the species found in the Ryukyus was later described

as *Laemoglyptus iriomotoensis* Wittmer, 1972. We also found no other references or specimens of *L. subspinosus* from the Ryukyus. Therefore, the record of *L. subspinosus* from the Ryukyus should be excluded.

***Laemoglyptus taihorinensis* Wittmer, 1984** 大林櫛角菊虎

Laemoglyptus taihorinensis Wittmer, 1984: 152.

Type locality: Taihorin [=Dalin] Chiayi County, Taiwan. (嘉義縣大林)

Type depository: Holotype in MNHUB.

Distribution: Taiwan.

Genus *Macrosilis* Pic, 1911 巨熒菊虎屬

Macrosilis Pic, 1911a: 173.

Type species: *Macrosilis fortunei* Pic, 1911, subsequently designated by Delkeskamp (1977).

***Macrosilis brevior* Pic, 1917** 短巨熒菊虎

Macrosilis brevior Pic, 1917: 5. — Wittmer, 1984: 149. — Okushima, 2008: 295.

Type locality: Taiwan. (臺灣)

Type depository: Type(s) in MNHN.

Distribution: Taiwan.

MALTHININAE 尖鬚菊虎亞科

Tribe Malthinini 尖鬚菊虎族

Genus *Caccodes* Sharp, 1885 短翅尖鬚菊虎屬

Caccodes Sharp, 1885: 157. — Brancucci, 1980: 306.

Type species: *Malthodes oecaniae* Bourgeois, 1884, subsequently designated by Wittmer (1958).

***Caccodes niponicus formosanus* (Pic, 1937)** 蓬萊短翅尖鬚菊虎

Malthodes niponicus var. *formosanus* Pic, 1937a: 64. — Wittmer, 1954b: 282; 1984: 164.

Caccodes niponicus var. *formosanus*: Wittmer, 1973a: 121.

Caccodes formosanus: Delkeskamp, 1977: 361.

Caccodes niponicus formosanus: Kazantsev and Brancucci, 2007: 276.

Type locality: Anping, Tainan City, Taiwan. (臺南市安平)

Type depository: Type(s) in SDEI.

Distribution: Taiwan.

Remarks: The record *Malthodes niponicus* var. *formosanus* in Wittmer (1984) should be miswritten because he had transferred this species

from *Malthodes* to *Caccodes* in 1973 and didn't give any reason for the confusing combination.

Genus *Malthinellus* Kiesenwetter, 1874 長鞘尖鬚菊虎屬

Malthinellus Kiesenwetter, 1874: 280. — Brancucci, 1980: 304. — Takahashi and Takahashi, 2007: 143.

Type species: *Malthinellus bicolor* Kiesenwetter, 1874, by monotypy.

***Malthinellus crenulatomimus* (Wittmer, 1984)** 橙楯長鞘尖鬚菊虎

Malthinus crenulatomimus Wittmer, 1984: 154.

Malthinellus crenulatomimus: Takahashi and Takahashi, 2007: 147.

Malthinus (Malthinus) crenulatomimus: Kazantsev and Brancucci, 2007: 278.

Type locality: Nanfengshan, Kaohsiung City, Taiwan. (高雄市南鳳山)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Malthinellus crenulatus* (Wittmer, 1979)** 褐楯長鞘尖鬚菊虎

Malthinus crenulatus Wittmer, 1979: 335; 1984: 154.

Malthinellus crenulatus: Takahashi and Takahashi, 2007: 147.

Malthinus (Malthinus) crenulatus: Kazantsev and Brancucci, 2007: 278.

Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)

Type depository: Holotype in NHMB.

Distribution: Taiwan.

Genus *Malthinus* Latreille, 1806 尖鬚菊虎屬

Malthinus Latreille, 1806: 261. — Brancucci, 1980: 303.

Type species: *Cantharis flaveolus* Herbst, 1786, subsequently designated by Delkeskamp (1977).

***Malthinus (Malthinus) fenchihuensis* Wittmer, 1979** 奮起湖尖鬚菊虎

Malthinus fenchihuensis Wittmer, 1979: 335; 1984: 155.

Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)

Type depository: Holotype in NHMB.

Distribution: Taiwan.

***Malthinus (Malthinus) notsui* Wittmer, 1984** 野津氏尖鬚菊虎

Malthinus notsui Wittmer, 1984: 158.

Type locality: Nanshanxi, Nantou County, Taiwan. (南投縣南山溪)

Type depository: Holotype in EUMJ.

Distribution: Taiwan.

***Malthinus (Malthinus) ohbai* Wittmer, 1984** 大場氏尖鬚菊虎

Malthinus ohbai Wittmer, 1984: 158. — Okushima, 2008: 295.

Type locality: Nanshanxi, Nantou County, Taiwan. (南投縣南山溪)

Type depository: Holotype in NHMB.

Distribution: Taiwan.

***Malthinus (Malthinus) palingensis* Wittmer, 1993** 巴稜尖鬚菊虎

Malthinus palingensis Wittmer, 1993b: 291.

Type locality: near Baling, Taoyuan County, Taiwan. (桃園縣，近巴陵)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Malthinus (Malthinus) reductelineatus* Pic, 1922** 單線尖鬚菊虎

Malthinus reductelineatus Pic, 1922a: 30. — Wittmer, 1984: 156. — Okushima, 2008: 295.

Type locality: Hokuto [=Beitou], Taipei City, Taiwan. (臺北市北投)

Type depository: Holotype male in MNHN.

Distribution: Taiwan.

***Malthinus (Malthinus) shimomurai* Wittmer, 1984** 下村氏尖鬚菊虎

Malthinus taiwanus shimomurai Wittmer, 1984: 157.

Malthinus shimomurai: Wittmer, 1993b: 289.

Type locality: Nanfengshan, Kaohsiung City, Taiwan. (高雄市南鳳山)

Type depository: Holotype in NHMB.

Distribution: Taiwan.

***Malthinus (Malthinus) sinensis* Pic, 1910** 中華尖鬚菊虎

Malthinus sinensis Pic, 1910a: 61. — Wittmer, 1984: 154; 1988: 372.

Type locality: Hong Kong, China. (中國香港特別行政區)

Type depository: Type(s) in MNHN.
Distribution: China (Hong Kong) and Taiwan.

***Malthinus (Malthinus) ssulingensis* Wittmer, 1993** 四稜尖鬚菊虎

Malthinus ssulingensis Wittmer, 1993b: 289.
Type locality: near Sileng, Taoyuan County, Taiwan. (桃園縣，近四稜)
Type depository: Holotype male in NHMB.
Distribution: Taiwan.

***Malthinus (Malthinus) taiwanoniger* Wittmer, 1979** 臺灣黑尖鬚菊虎

Malthinus taiwanoniger Wittmer, 1979: 336; Wittmer, 1984: 155.
Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)
Type depository: Holotype male in NHMB.
Distribution: Taiwan.

***Malthinus (Malthinus) taiwanus* Wittmer, 1984** 臺灣尖鬚菊虎

Malthinus taiwanus Wittmer, 1984: 157.
Type locality: Meifeng, Nantou County, Taiwan. (南投縣梅峰)
Type depository: Holotype in OMNH.
Distribution: Taiwan.

***Malthinus (Malthinus) vixlimbatus* Wittmer, 1984** 缺緣尖鬚菊虎

Malthinus vixlimbatus Wittmer, 1984: 155.
Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)
Type depository: Holotype in NHMB.
Distribution: Taiwan.

***Malthinus (Malthinus) yangmingensis* Wittmer, 1984** 陽明山尖鬚菊虎

Malthinus yangmingensis Wittmer, 1984: 156.
Type locality: Yangmingshan, Taipei City, Taiwan. (臺北市陽明山)
Type depository: Holotype in NHMB.
Distribution: Taiwan.

Tribe Malthodini 小菊虎族

Genus *Malthodes* Kiesenwetter, 1852 小菊虎屬

Malthodes Kiesenwetter, 1852: 242. — Brancucci, 1980: 307. — Takahashi, 2001: 90.
Type species: *Malthinus marginatus* Latreille,

1806, subsequently designated by Brancucci (1980).

***Malthodes (Malthodes) brancuccii* Wittmer, 1984** 布氏小菊虎

Malthodes brancuccii Wittmer, 1984: 160.
Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)
Type depository: Holotype in NHMB.
Distribution: Taiwan.

***Malthodes (Malthodes) fenchihuensis* Wittmer, 1984** 奮起湖小菊虎

Malthodes fenchihuensis Wittmer, 1984: 160.
Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)
Type depository: Holotype in NHMB.
Distribution: Taiwan.

***Malthodes (Malthodes) makiharai* Wittmer, 1984** 槇原氏小菊虎

Malthodes makiharai Wittmer, 1984: 162.
Type locality: Kunmin [=Kunyang], Nantou County, Taiwan. (南投縣昆陽)
Type depository: Holotype in KUEC.
Distribution: Taiwan.
Remarks: The type locality is a typo and should be Kunyo (Makihara, personal communication with the second author, Okushima).

***Malthodes (Malthodes) nantouensis nantouensis* Wittmer, 1984** 南投小菊虎

Malthodes nantouensis Wittmer, 1984: 162.
Type locality: Hehuanxi, Nantou County, Taiwan. (南投縣合歡溪)
Type depository: Holotype male in NHMB.
Distribution: Taiwan.

***Malthodes (Malthodes) nantouensis taoyuanus* Wittmer, 1984** 桃園小菊虎

Malthodes nantouensis taoyuanus Wittmer, 1984: 163.
Type locality: near Sileng, Taoyuan County, Taiwan. (桃園縣，近四稜)
Type depository: Holotype male in NHMB.
Distribution: Taiwan.

***Malthodes (Malthodes) niitakaensis* Wittmer, 1955** 新高小菊虎

Malthodes niitakaensis Wittmer, 1955: 42; 1984: 160.

Type locality: Taataka [=Tatajia] to Niitakaguti [=Yushan], Nantou County, Taiwan. (南投縣塔塔加至玉山)

Type depository: Holotype male in EIHU.

Distribution: Taiwan.

***Malthodes (Malthodes) taipehanus taipehanus* Wittmer, 1956** 臺北小菊虎

Malthodes taipehanus Wittmer, 1956: 307, 1984: 161. — Okushima, 2008: 295.

Type locality: Taipei, Taiwan. (臺北)

Type depository: Holotype male in CAS.

Distribution: Taiwan.

***Malthodes (Malthodes) taiwanus* Wittmer, 1984** 臺灣小菊虎

Malthodes taiwanus Wittmer, 1984: 161.

Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)

Type depository: Holotype in NHMB.

Distribution: Taiwan.

Genus *Maltypus* Motschulsky, 1859 姬菊虎屬

Maltypus Motschulsky, 1859: 61. — Brancucci, 1980: 310. — Takahashi, 2004: 192.

Falsomalthodes Pic, 1924: 28.

Type species: *Maltypus niger* Motschulsky, 1859, subsequently designated by Delkeskamp (1977).

***Maltypus ryukyuanus* Wittmer, 1970** 琉球姬菊虎

Maltypus ryukyuanus Wittmer, 1970: 24; 1984: 164. — Takahashi, 2004: 193.

Type locality: Ryukyu: I. Taketomi, Japan (日本沖繩縣竹富島)

Type depository: Holotype female in EUMJ.

Distribution: Taiwan and the Ryukyus (Miyako-jima, Ishigaki-jima, Taketomi-jima, and Iriomote-jima), Japan.

CHAULIOGNATHINAE 麗艷菊虎亞科

Tribe Ichthyurini 隱翅菊虎族

Genus *Ichthyurus* Westwood, 1848 隱翅菊虎屬

Ichthyurus Westwood, 1848: 83. — Brancucci, 1983: 258.

Type species: *Ichthyurus lateralis* Westwood, 1848, subsequently designated by Delkeskamp (1977).

***Ichthyurus bilineatus* Pic, 1915** 姬雙帶隱翅菊虎

Ichthyurus bilineatus Pic, 1915: 6. — Wittmer, 1954b: 281. — Brancucci, 1983: 264. — Okushima, 2008: 296.

Ichthyurus nigrosignatus Pic, 1954: 15.

Type locality: Taiwan. (臺灣)

Type depository: Holotype female in MNHN.

Distribution: Taiwan.

***Ichthyurus heidiae* Brancucci, 1983** 雙帶隱翅菊虎 (海蒂隱翅菊虎)

Ichthyurus heidiae Brancucci, 1983: 265; 1985a: 240. — Okushima, 2008: 296.

Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Ichthyurus klapperichi* Brancucci, 1983** 黑足隱翅菊虎

Ichthyurus klapperichi Brancucci, 1983: 261; 1985a: 240. — Okushima, 2008: 296.

Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Ichthyurus nigripennis* Pic, 1913** 暗色隱翅菊虎

Ichthyurus nigripennis Pic, 1913: 17. — Wittmer, 1954b: 282. — Brancucci, 1983: 259; 1985a: 239. — Okushima, 2008: 298.

Ichthyurus sauteri Pic, 1937a: 65.

Ichthyurus pici Delkeskamp, 1939: 210 [new name for *Ichthyurus sauteri* Pic, 1937].

Type locality: Fainan [=Tainan] City, Taiwan. (Tainan誤拼, 臺南市)

Type depository: Holotype female in MNHN.

Distribution: Taiwan.

Genus *Microichthyurus* Pic, 1919 微隱翅菊虎屬

Microichthyurus Pic, 1919a: 14. — Brancucci, 1983: 267.

Type species: *Microichthyurus impressicollis* Pic, 1919, subsequently designated by Delkeskamp (1977).

***Microichthyurus apicipennis* (Pic, 1913)** 端翅微隱翅菊虎

Ichthyurus apicipennis Pic, 1913: 18. — Wittmer, 1954b: 281.

Microichthyurus apicipennis: Brancucci, 1983: 270.

Type locality: Fainan [=Tainan] City, Taiwan. (Tainan誤拼，臺南市)

Type depository: Type male in MNHN.

Distribution: Taiwan.

Microichthyurus haennii Brancucci, 1983 亨尼微隱翅菊虎

Microichthyurus haennii Brancucci, 1983: 268; 1985a: 240.

Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

Microichthyurus ilanensis Brancucci, 1985 蘭陽微隱翅菊虎

Microichthyurus ilanensis Brancucci, 1985a: 240.

Type locality: Yilan County, Taiwan. (宜蘭縣)

Type depository: Holotype male in EUMJ.

Distribution: Taiwan.

Microichthyurus satoi Brancucci, 1983 佐藤微隱翅菊虎

Microichthyurus satoi Brancucci, 1983: 273. — Okushima, 2008: 298.

Type locality: Nanshanxi, Nantou County, Taiwan. (南投縣南山溪)

Type depository: Holotype male in EUMJ.

Distribution: Taiwan.

Microichthyurus shimomurai Brancucci, 1983 下村微隱翅菊虎

Microichthyurus shimomurai Brancucci, 1983: 271; 1985a: 240.

Type locality: near Sileng, Taoyuan County, Taiwan. (桃園縣，近四稜)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

Genus *Trypherus* LeConte, 1851 短翅菊虎屬

Trypherus LeConte, 1851: 346. — Brancucci, 1983: 274; 1985b: 256.

Type species: *Malthinus latipennis* Germar, 1824, by monotypy.

Trypherus chujoi Brancucci, 1983 中條氏短翅菊虎

Trypherus chujoi Brancucci, 1983: 295; 1985b: 284.

Type locality: Alishan, Chiayi County, Taiwan. (嘉義縣阿里山)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

Trypherus fenchihuensis Brancucci, 1983 奮起湖短翅菊虎

Trypherus fenchihuensis Brancucci, 1983: 282; 1985b: 269.

Type locality: Fenqihu, Chiayi County, Taiwan. (嘉義縣奮起湖)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

Trypherus kanoi Brancucci, 1983 鹿野氏短翅菊虎

Trypherus kanoi Brancucci, 1983: 276; 1985a: 243; 1985b: 263.

Type locality: Dongpu, Nantou County, Taiwan. (南投縣東埔)

Type depository: Holotype male in NSMT.

Distribution: Taiwan.

Trypherus m-signatus Pic, 1919 M紋短翅菊虎

Trypherus m-signatus Pic, 1919b: 24. — Wittmer, 1954b: 282. — Brancucci, 1983: 285; 1985b: 271.

Trypherus m-signatus var. *bimaculatus* Pic, 1919b: 24.

Type locality: Hokuto [=Beitou], Taipei City, Taiwan. (臺北市北投)

Type depository: Lectotype male in MNHN.

Distribution: Taiwan.

Trypherus nakanei Brancucci, 1983 中根氏短翅菊虎

Trypherus nakanei Brancucci, 1983: 278; 1985a: 243; 1985b: 265.

Type locality: Hehuanxi, Nantou County, Taiwan. (南投縣合歡溪)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

Trypherus natouensis Brancucci, 1983 南投短翅菊虎

Trypherus natouensis Brancucci, 1983: 289; 1985a: 243; 1985b: 271.

Type locality: Hehuanxi, Nantou County, Taiwan. (南投縣合歡溪)

Type depository: Holotype male in NHMB.

Distribution: Taiwan.

***Trypherus ohbayashii* Brancuccci, 1985** 大林氏短翅菊虎

Trypherus ohbayashii Brancuccci, 1985b: 264.
 Type locality: Yenyangfu [=Yuanyang Lake], Yilan County, Taiwan. (宜蘭縣，鴛鴦湖)
 Type depository: Holotype male in EUMJ.
 Distribution: Taiwan.

***Trypherus parilis* Brancuccci, 1983** 近瀾短翅菊虎

Trypherus parilis Brancuccci, 1983: 283; 1985b: 271.
 Type locality: Yeliou, New Taipei City, Taiwan. (新北市野柳)
 Type depository: Holotype male in NHMB.
 Distribution: Taiwan.

***Trypherus perplexus* Brancuccci, 1983** 混惑短翅菊虎

Trypherus perplexus Brancuccci, 1983: 292; 1985b: 284.
 Type locality: Sun Moon Lake, Nantou County, Taiwan. (南投縣日月潭)
 Type depository: Holotype male in NSMT.
 Distribution: Taiwan.

***Trypherus plagiocephalus* Brancuccci, 1983** 寬首短翅菊虎

Trypherus plagiocephalus Brancuccci, 1983: 286; 1985b: 271.
 Type locality: near Chiduan, Yilan County, Taiwan. (宜蘭縣，近池端)
 Type depository: Holotype male in NHMB.
 Distribution: Taiwan.

***Trypherus pseudoparilis* Brancuccci, 1983** 偽近瀾短翅菊虎

Trypherus pseudoparilis Brancuccci, 1983: 279; 1985b: 265.
 Type locality: Dongpu, Nantou County, Taiwan. (南投縣東埔)
 Type depository: Holotype male in NSMT.
 Distribution: Taiwan.

***Trypherus sauteri* (Gestro, 1911)** 梭德氏短翅菊虎

Ichthyurus sauteri Gestro, 1911: 50.
Trypherus sauteri: Brancuccci, 1983: 281; 1985b: 269.
 Type locality: Kosampo [=Jiaxian], Kaohsiung City, Taiwan. (高雄市甲仙)

Type depository: Holotype female in MSNG.
 Distribution: Taiwan.

***Trypherus similis* Brancuccci, 1983** 似形短翅菊虎

Trypherus similis Brancuccci, 1983: 296; 1985b: 285.
 Type locality: Hattûkan [=Batongguan], Nantou County, Taiwan. (南投縣八通關)
 Type depository: Holotype male in EIHU.
 Distribution: Taiwan.

***Trypherus simulator* Brancuccci, 1983** 仿態短翅菊虎

Trypherus simulator Brancuccci, 1983: 288; 1985b: 271.
 Type locality: Wulai, New Taipei City, Taiwan. (新北市烏來)
 Type depository: Holotype male in NHMB.
 Distribution: Taiwan.

***Trypherus taihorinensis* Brancuccci, 1983** 南華短翅菊虎

Trypherus taihorinensis Brancuccci, 1983: 291; 1985b: 284.
 Type locality: Taihorin [=Dalin], Chiayi County, Taiwan. (嘉義縣大林)
 Type depository: Holotype male in NHMB.
 Distribution: Taiwan.

***Trypherus taiwanensis* Brancuccci, 1983** 臺灣短翅菊虎

Trypherus taiwanensis Brancuccci, 1983: 293; 1985a: 244; 1985b: 284. — Okushima, 2008: 298.
 Type locality: Nanshanxi, Nantou County, Taiwan. (南投縣南山溪)
 Type depository: Holotype male in NHMB.
 Distribution: Taiwan.

Species excluded from the Taiwanese fauna

Podabrus (Anolisus) bicoloripes (Pic, 1927): Wittmer, 1984: 164 [incertae sedis].

Remarks: This species was originally described from Chapa [= Sapa], NW Vietnam. Wittmer (1984) recorded female specimens of *Podabrus (Anolisus) bicoloripes* from Taiwan. M. Okushima, one of the authors of this study, examined one of the specimens used by Wittmer (1984), which is deposited in EUMJ (Satô's Collection) and found that it is actually a species of *Habronychus (Monohabronychus)*. Although its specific name could not be determined, it

might belong to one of the known species listed in this checklist. Based on current knowledge, Taiwan and Vietnam share no common species of cantharids. It is reasonable to infer that Pic's *Podabrus bicoloripes* is not really the same species as the Taiwan material examined by Wittmer (1984), although we did not examine Pic's type specimens. We propose excluding "*Podabrus (Anolisus) bicoloripes*" from the Taiwanese fauna at present.

Micropodabrus pieli (Pic, 1937): Kazantsev and Brancucci, 2007: 258.

Remarks: Kazantsev and Brancucci (2007) listed both Fujian Province (China) and Taiwan in the geographic region of this species without voucher specimens. The record of *M. pieli* should be a mistake, because we found no other references or specimens of the species from Taiwan. Therefore, the record of *M. pieli* from Taiwan should be excluded.

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REFERENCES

Bourgeois, J. 1907. Sur quelques Malacodermes de l'Inde. Ann. Soc. Entomol. Belg. 51: 291-293.

- Brancucci, M. 1980. Morphologie comparée, evolution et systématique des Cantharidae (Insecta: Coleoptera). Entomol. Basiliens. 5: 215-388.
- Brancucci, M. 1983. La famille des Cantharidae (Coleoptera) sur l'île de Taiwan. 4. La sous-famille des Chauliognathinae. Entomol. Basiliens. 8: 256-309.
- Brancucci, M. 1985a. La famille des Cantharidae (Coleoptera) sur l'île de Taiwan. 4. La sous-famille des Chauliognathinae, supplement 1. Entomol. Basiliens. 10: 239-244.
- Brancucci, M. 1985b. Révision du genre *Tryptherus* Leconte (Coleoptera, Cantharidae). Entomol. Basiliens. 10: 251-322.
- Brancucci, M. 2007. Cantharidae. New Acts and Comments, p. 55. In I. Löbl and A. Smetana (eds.). Catalogue of Palaearctic Coleoptera., Vol. 4. Apollo Books, Stenstrup, Denmark. pp. 234-298.
- Champion, G. C. 1926. Some Indian (and Tibetan) Coleoptera (20.). Entomol. Month. Mag. 62: 194-210.
- Delkeskamp, K. 1939. Cantharidae. In S. Schenkling (ed.). Coleopterorum Catalogus Vol. 9. W. Junk, Gravenhage. pp. 1-357.
- Delkeskamp, K. 1977. Cantharidae. In J. A. Wilcox (ed.). Coleopterorum Catalogus Supplementa. W. Junk, Hague. pp. 1-485.
- Eschscholtz, J. F. G. von. 1830. Nova genera Coleopterorum faunae Europaeae. Bull. Soc. Imp. Nat. Moscou 2: 16-65.
- Fairmaire, L. 1886. Descriptions de coléoptères de l'intérieur de la Chine (2. partie). Ann. Soc. Entomol. Fr. 6: 303-356.
- Fairmaire, L. 1897. Coléoptères de l'Inde et de la Malaisie. Notes Leyden Mus. 18: 225-240.
- Fairmaire, L. 1900. Description des coléoptères nouveaux recueillis en Chine par M. de Latouche. Ann. Soc. Entomol. Fr. 68[1899]: 616-649.
- Gorham, H. S. 1889. Descriptions of new species and of a new genus of Coleoptera of the family Telephoridae. Proc. Zool. Soc. 1889: 96-111.
- Hsiao, Y. 2014. A description of the female of *Stenothemus owadai* (Coleoptera: Cantharidae). Formosan Entomol. 34: 55-58.
- Hsiao, Y. and P.-S. Yang. 2014. Description of the female of *Stenothemus taiwanus* Okushima and Satô, 1997 (Coleoptera, Cantharidae). Far East. Entomol. 275: 21-24.
- Kazantsev, S. V. 1995. A key to *Rhagonycha*

- (Coleoptera, Cantharidae) east of the Ural Mountains with the description of a new subgenus. *Entomol. Basiliens.* 18: 91-98.
- Kazantsev, S. 1999. Revision of *Lycocerus* Gorham of Indochina and adjacent regions, with the description of *Walteria*, a new genus (Coleoptera, Cantharidae). *Entomol. Basiliens.* 21: 115-134.
- Kazantsev, S. V. 2001. New taxa of soldier-beetles (Coleoptera, Cantharidae) from Central Asia and the Caucasus. *Zoologich. J.* 80: 1076-1082.
- Kazantsev, S. V. and M. Brancucci. 2007. Cantharidae. In I. Löbl and A. Smetana (eds.), *Catalogue of Palaearctic Coleoptera.*, Vol. 4. Apollo Books, Stenstrup, Denmark. pp. 234-298.
- Kiesenwetter, E. A. H. von. 1852. Beiträge zu einer Monographie der Malthinen. *Linn. Entomol.* 7: 239-324, pls. 1, 2.
- Kiesenwetter, E. A. H. von. 1874. Die Malacodermen Japans nach dem Ergebnisse der Sammlungen des Herrn G. Lewis während der Jahre 1869-1871. Berlin. *Entomol. Zeitschrift* 18: 241-288.
- Kopetz, A. 2008. Zur Kenntnis der Familie Cantharidae im Himalaya (Insecta: Coleoptera). *Vernate Erfurt* 27: 191-205.
- Latreille, P. A. 1806. *Genera crustaceorum et insectorum: secundum ordinem naturalem in familias disposita, iconibus exemplisque plurimis explicata.* Apud Amand Knig, Bibliopolam, Parisiis et Argentorati.
- Leconte, J. L. 1851. Synopsis of the Lampyridae of temperate North America. *Proc. Acad. Nat. Sci. Phila.* 5: 331-347.
- Lewis, G. 1895. On the Dascillidae and malacoderm Coleoptera of Japan. *Ann. Mag. Nat. Hist.* (6) 16: 98-122.
- Motschulsky, V. de. 1857. *Entomologie spéciale. Insectes du Japon.* Études Entomol. 6: 25-41, 1 pl.
- Motschulsky, V. de. 1859. *Insectes des Indes orientales, et de contrées analogues.* 2: me série. Coléoptères. Études Entomol. 8: 25-118, 2 pls.
- Okushima, Y. 2003. Further records of "*Athemellus multilimbatus*" (Coleoptera, Cantharidae) from Taiwan. *Elytra Tokyo* 31(2): 351-352
- Okushima, Y. 2005. A taxonomic study on the genus *Lycocerus* (Coleoptera, Cantharidae) from Japan, with zoogeographical considerations. *Jpn. J. Syst. Entomol. Monogr. Ser.* 2: 1-383.
- Okushima, Y. 2007a. Three new metallic species of the genus *Lycocerus* (Coleoptera, Cantharidae) from Taiwan. *Elytra Tokyo* 35(1): 129-141.
- Okushima, Y. 2007b. Taxonomic notes on some *Lycocerus* species (Coleoptera, Cantharidae) preserved in the Muséum National d'Histoire Naturelle, Paris. *Jpn. J. Syst. Entomol.* 13(2): 257-265.
- Okushima, Y. 2008. A new species of the genus *Prothemus* (Coleoptera: Cantharidae) from Taiwan, with records of Taiwanese Cantharidae in the Shibata collection. *Special Publ. Jpn. Coleopterol. Soc.* 2: 273-300.
- Okushima, Y. and Y.-X. Yang. 2013. Two new species of the subfamily Cantharinae (Coleoptera, Cantharidae) from Taiwan. *Elytra Tokyo* 3(1): 89-96.
- Okushima, Y. and M. Satô. 1997a. Two new species of the genus *Stenothemus* (Coleoptera, Cantharidae) from Taiwan. *Elytra Tokyo* 25(1): 85-91.
- Okushima, Y. and M. Satô. 1997b. Cantharid beetles of the genus *Prothemus* (Coleoptera, Cantharidae) of the Ryukyu Islands, southwest Japan. *Elytra Tokyo* 25: 333-342.
- Okushima, Y. and M. Satô. 1999a. Cantharid beetles of the genus *Stenothemus* (Coleoptera, Cantharidae) from Taiwan. *Elytra Tokyo* 27: 131-140.
- Okushima, Y. and M. Satô. 1999b. Cantharid beetles of the genus *Habronychus* (Coleoptera, Cantharidae) from Taiwan, with description of a new subgenus. *Elytra Tokyo* 27: 387-403.
- Okushima, Y. and M. Satô. 2000. A new species of the genus *Themus* (Coleoptera, Cantharidae) from Taiwan. *Jpn. J. Syst. Entomol.* 6(1): 147-149
- Okushima, Y. and M. Satô. 2002. A new small species of the genus *Prothemus* (Coleoptera, Cantharidae) from Taiwan. *Special Bull. Jpn. Soc. Coleopterol.* (5): 347-350.
- Pic, M. 1910a. Coléoptères exotiques nouveaux ou peu connus (suite). *L'Échange Rev. Linn.* 26: 60-63.
- Pic, M. 1910b. Coléoptères exotiques nouveaux ou peu connus. *L'Échange Rev. Linn.* 26: 74-78, 86-87.
- Pic, M. 1910c. Malacodermes et Hétéromères nouveaux d'Afrique et d'Asie. *Naturaliste* 32:

- 259.
- Pic, M. 1910d. Malacodermes et hétéromères nouveaux d'Afrique et d'Asie. *Naturaliste* 32: 271-272.
- Pic, M. 1911a. Coléoptères exotiques nouveaux ou peu connus (suite). L'Échange Rev. Linn. 27: 172-174.
- Pic, M. 1911b. Quatre nouveaux genres de Malacodermes. L'Échange Rev. Linn. 27: 186-188.
- Pic, M. 1911c. H. Sauter's Formosa-Ausbeute. Cantharidae, Lampyridae, Mordellidae (Col.). *Deutsche Entomol. Natl.-Bibliothek* 2: 188-189.
- Pic, M. 1912a. Étude dichotomique du genre *Drilosilis* Pic. *Mélanges Exotico-Entomol.* 2: 12-14.
- Pic, M. 1912b. Coléoptères exotiques nouveaux ou peu connus. L'Échange Rev. Linn. 28: 46-47.
- Pic, M. 1913. Espèces et variétés nouvelles, ou peu connues, rentrant dans diverses familles. *Mélanges Exotico-Entomol.* 7: 10-20.
- Pic, M. 1915. Genres nouveaux, espèces et variétés nouvelles. *Mélanges Exotico-Entomol.* 16: 2-13.
- Pic, M. 1916. Diagnoses abrégées diverses. *Mélanges Exotico-Entomol.* 21: 2-20.
- Pic, M. 1917. Descriptions abrégées diverses. *Mélanges Exotico-Entomol.* 26: 2-24.
- Pic, M. 1919a. Nouveautés diverses. *Mélanges Exotico-Entomol.* 31: 11-24.
- Pic, M. 1919b. Coléoptères exotiques en partie nouveaux (Suite). L'Échange Rev. Linn. 35: 24.
- Pic, M. 1920. Nouveautés diverses. *Mélanges Exotico-Entomol.* 32: 1-28.
- Pic, M. 1921a. Nouveautés diverses. *Mélanges Exotico-Entomol.* 33: 1-32.
- Pic, M. 1921b. Nouveautés diverses. *Mélanges Exotico-Entomol.* 34: 1-32.
- Pic, M. 1922a. Nouveautés diverses. *Mélanges Exotico-Entomol.* 36: 1-32.
- Pic, M. 1922b. Nouveautés diverses. *Mélanges Exotico-Entomol.* 37: 1-32.
- Pic, M. 1926a. H. Sauter's Formosa Ausbeute. Mordellidae, Lycidae, Cantharidae. *Entomol. Mitteilungen* 15: 67-69.
- Pic, M. 1926b. Nouveaux coléoptères du globe. *Bull. Soc. Entomol. Fr.* 51: 235-238.
- Pic, M. 1934. Neue exotische Coleopteren (Malacodermata). III. *Entomol. Anzeiger* 14: 45-47, 54-55.
- Pic, M. 1937a. Nova Coleoptera Malacodermata. *Entomol. Blätter* 33: 58-65.
- Pic, M. 1937b. Contribution à l'étude du genre *Laemoglyptus* Fairm. (Coleopteres Malacodermes). *Bull. Soc. Entomol. Fr.* 62: 187-190.
- Pic, M. 1938. Descriptions de Coléoptères et notes synonymiques. *Bull. Soc. Entomol. Fr.* 43: 121-124.
- Pic, M. 1954. Coléoptères du globe (Suite). L'Échange Rev. Linn. 70: 9-12, 13-16.
- Sharp, D. 1885. Memoirs on the Coleoptera of the Hawaiian Islands. *Sci. Transact. R. Dublin Soc.* 3: 119-289, 300, pls. 4, 5.
- Švihla, V. 2004. New taxa of the subfamily Cantharinae (Coleoptera, Cantharidae) from southeastern Asia with notes on other species. *Entomol. Basiliens.* 26: 155-238.
- Švihla, V. 2008. Redefinition of the subgenera of the genus *Themus* Motschulsky, 1858, with description of five new species (Coleoptera: Cantharidae). *Vernate Erfurt* 27: 183-190.
- Švihla, V. 2011. New taxa of the subfamily Cantharinae (Coleoptera: Cantharidae) from south-eastern Asia, with notes on other species III. *Zootaxa* 2895: 1-34.
- Takahashi, K. 2002. A new species of the genus *Asiopodabrus* (Coleoptera, Cantharidae) from eastern Honshu, Japan. *Elytra Tokyo* 30: 195-201.
- Takahashi, K. 2011. Six new species and a new subspecies of the genus *Asiopodabrus* (Coleoptera, Cantharidae) from Taiwan. *Special Publ. Jpn. Soc. Scarabaeoidol.* 1: 223-233.
- Takahashi, N. 2001. Taxonomic study of the genus *Malthodes* from Japan (Coleoptera: Cantharidae) I. Discovery of new species in the Nansei Islands, southwest Japan. *Entomol. Sci.* 4(1): 89-108.
- Takahashi, N. 2004. Notes on *Maltypus ryukyuanus* Wittmer (Coleoptera: Cantharidae), with a new distributional record in Japan. *Esakia* 44: 191-198.
- Takahashi, K. and I. Kiriyama. 2000. Eighteen new species and two new subspecies of the genus *Podabrus* (Coleoptera, Cantharidae) mainly from Gifu Prefecture, central Honshu, Japan. *Jpn. J. Syst. Entomol.* 6: 121-146.
- Takahashi, K. and N. Takahashi. 2007. A new species of the genus *Malthinellus* (Coleoptera, Cantharidae) from Okinawa Island, southwest Japan, with notes on the genus *Malthinellus*.

- Elytra Tokyo 35: 142-148.
- Takahashi, N., Y. Okushima, and T. Ichita. 2001. Cantharid beetles Coleoptera, Cantharidae of Aomori Prefecture, northern Honshu, Japan, V. Bull. Kurashiki Mus. Nat. Hist. 16: 65-78.
- Westwood, J. O. 1848. The cabinet of Oriental entomology: being a selection of some of the rarer and more beautiful species of insects, natives of India and the adjacent islands, the greater portion of which are now for the first time described and figured. William Smith, London.
- Wittmer, W. 1948. Notas sinonimicas y sistematicas sobre Malacodermata (1^a nota). Anal. Soc. Cien. Argentina 145: 167-173.
- Wittmer, W. 1952. Neue Cantharidae aus Herrn Joh. Klapperichs' Südchina Ausbeute (14. Beitrag zur Kenntnis der palaearktischen Malacodermata Col.). Entomol. Blätter 47[1951]: 96-103.
- Wittmer, W. 1954a. 20. Beitrag zur Kenntnis der palaearktischen Malacodermata (Col.). Mitteilungen Schweizerischen Entomol. Gesellschaft 27: 109-114.
- Wittmer, W. 1954b. Zur Kenntnis der Cantharidae der Insel Formosa. (19. Beitrag zur Kenntnis der palaearktischen Malacodermata, Col.). Rev. Suisse Zool. 61: 271-282.
- Wittmer, W. 1955. 21. Beitrag zur Kenntnis der palaearktischen Malacodermata (Coleoptera). Mushi 29: 39-45, pls. 4, 5.
- Wittmer, W. 1956. Neue Malacodermata aus der Sammlung der California Academy of Sciences (16. Beitrag zur Kenntniss der palaearktischen Malacodermata, Col.). Mitteilungen Schweizerischen Entomol. Gesellschaft 29: 303-313.
- Wittmer, W. 1969. Synonymische und systematische Notizen tiber Coleopteren. Mitteilungen Schweizerischen Entomol. Gesellschaft 42: 126-134.
- Wittmer, W. 1970. Coleoptera of the Loo-Choo Archipelago (II). Cantharidae und Malachiidae von den Inseln Okinawa und Ryukyu, Gesammelt durch Herrn Prof. Dr. Michio Chûjô (46. Beitrag zur Kenntnis der palaearktischen Cantharidae und Malachiidae.). Mem. Fac. Educ. Kagawa Univ. 2(192): 22-27.
- Wittmer, W. 1972. 55. Beitrag zur Kenntnis der palaearktischen Cantharidae und Malachiidae (Col.). Entomol. Arbeiten Mus. G. Frey Tutzing 23: 122-141.
- Wittmer, W. 1973a. Zur Kenntnis der Gattung *Pseudoabsidia*. Mitteilungen Entomol. Gesellschaft Basel 23: 117-120.
- Wittmer, W. 1973b. Zur Kenntnis der Gattung *Themus* Motsch. (Col. Cantharidae). Entomol. Arbeiten Mus. G. Frey Tutzing 24: 186-227.
- Wittmer, W. 1974. Zur Kenntnis der Gattung *Stenothemus* Bourg. (Col. Cantharidae). Mitteilungen Schweizerischen Entomol. Gesellschaft 47: 49-62.
- Wittmer, W. 1978. Ergebnisse der Bhutan-Expedition 1972 des Naturhistorisches Museums in Basel. Coleoptera: Fam. Cantharidae (4. Teil) und Bemerkungen zu cinigen Arten aus angrenzenden Gebieten. Entomol. Basiliens. 3: 151-161.
- Wittmer, W. 1979. 64. Beitrag zur Kenntnis der palaearktischen Cantharidae, Phengodidae und Malachiidae (Col.). Entomol. Basiliens. 4: 327-346.
- Wittmer, W. 1981. Die Gattung *Habronychus* (Col. Cantharidae) auf dem indischen Subcontinent (34. Beitrag zur Kenntnis der indo-malaiischen Cantharidae). Entomol. Basiliens. 6: 399-405.
- Wittmer, W. 1982. Die Familie Cantharidae (Col.) auf Taiwan (1. Teil). Entomol. Rev. Jpn. 37: 119-140, pls. 4-8.
- Wittmer, W. 1983a. Beitrag zur einer Revision der Gattung *Themus* Motsch. Coleoptera: Cantharidae. Entomol. Arbeiten Mus. G. Frey Tutzing 31-32: 189-239.
- Wittmer, W. 1983b. Die Familie Cantharidae (Col.) auf Taiwan (2. Teil). Entomol. Rev. Jpn. 38: 147-172, pls. 10-14.
- Wittmer, W. 1984. Die Familie Cantharidae (Col.) auf Taiwan (3. Teil). Entomol. Rev. Jpn. 39: 141-166, pls. 4-9.
- Wittmer, W. 1986. Nachtrag zu den Fam. Cantharidae und Malachiidae (Col.) auf Taiwan. Entomol. Rev. Jpn. 41: 131-135.
- Wittmer, W. 1987. Zur Kenntnis der Gattung *Prothemus* Champion (Coleoptera: Cantharidae). Mitteilungen Entomol. Gesellschaft Basel 37(2): 69-88.
- Wittmer, W. 1993a. Zur Kenntnis der palaearktischen und indo-malaiischen Cantharidae (Coleoptera). Entomol. Basiliens. 16: 203-253.
- Wittmer, W. 1993b. 79. Beitrag zur Kenntnis der palaearktischen Fauna (Coleoptera-Cantharidae). Entomol. Basiliens. 16: 279-305.

- Wittmer, W. 1995a. Neue Cantharidae (Col.) aus dem indo-malaiischen und palaearktischen Faunengebiet mit Mutationen. Entomol. Basiliens. 18: 109-169.
- Wittmer, W. 1995b. Zur Kenntnis der Gattung *Athemus* Lewis (Col. Cantharidae). Entomol. Basiliens. 18: 171-286.
- Wittmer, W. 1995c. 46. Beitrag zur Kenntnis der indo-malaiischen Cantharidae (Coleoptera). Special Bull. Jpn. Soc. Coleopterol. 4: 407-418.
- Wittmer, W. 1997. Neue Cantharidae (Col.) aus dem indo-malaiischen und palaearktischen Faunengebiet mit Mutationen. 2. Beitrag. Entomol. Basiliens. 20: 223-365.
- Wittmer, W. and N. Magis. 1978. Zur Kenntnis einiger mit *Cantharis* L. verwandter Gattungen (Coleoptera, Cantharidae). Bull. Ann. Soc. d'Entomol. Belg. 114: 133-139.
- Wittmer, W. and S. Kasantsev. 1997. On the classification of the genus *Cantharis* Linnaeus (Coleoptera, Cantharidae). Entomol. Basiliens. 20: 367-372.
- Yang, Y.-X., M. Brancucci, and X.-K. Yang. 2009. Synonymical notes on the genus *Micropodabrus* Pic and related genera (Coleoptera, Cantharidae). Entomol. Basiliens. Collect. Frey 31: 49-54.
- Yang, Y.-X., A. Kopetz, and X.-K. Yang. 2013. Taxonomic and nomenclatural notes on the genera *Themus* Motschulsky and *Lycocerus* Gorham (Coleoptera, Cantharidae). Zookeys 340: 1-19.
- Yang, Y.-X., Y. Okushima, and X.-K. Yang. 2012. Synonym, new species and checklist of the genus *Fissocantharis* Pic from Taiwan (Coleoptera, Cantharidae). Zootaxa 3262: 46-53.

Table 1. Total number of species of Taiwanese Cantharidae.

Subfamily	Genus	Number of species
Cantharinae	<i>Asiopodabrus</i>	8+1 subsp.
	<i>Taiwanocantharis</i>	2
	<i>Habronychus</i>	8
	<i>Lycocerus</i>	31
	<i>Fissocantharis</i>	27+1subsp.
	<i>Micropodabrus</i>	1
	<i>Prothemus</i>	10
	<i>Rhagonycha</i>	2
	<i>Stenothemus</i>	4
	<i>Themus</i>	12
	<i>Walteriella</i>	3
Subtotal: 108+2subsp.		
Silinae	<i>Laemoglyptus</i>	8
	<i>Macrosilis</i>	1
Subtotal: 9		
Malthininae	<i>Caccodes</i>	1
	<i>Malthinellus</i>	2
	<i>Malthinus</i>	12
	<i>Malthodes</i>	7+1subsp.
	<i>Maltypus</i>	1
Subtotal: 23+1subsp.		
Chauliognathinae	<i>Ichthyurus</i>	4
	<i>Microichthyurus</i>	5
	<i>Trypherus</i>	16
Subtotal: 25		
Total: 21 genera, 165 species + 3 subspecies (subsp.)		



Figs. 1, 2. 1. Holotype of *Podabrinus brunneus* Wittmer, 1955; 2. Aedeagus, ventral view. (The photo was taken by an NMNS team under an agreement with CAS).

臺灣產菊虎科名錄(鞘翅目:叩頭蟲總科)

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本名錄提供臺灣4亞科21屬165種菊虎科昆蟲之學名與中文名錄，附異名表、原始文獻出處、模式標本產地、模式標本館藏地與分布資料；將 *Podabrus (Anolisus) bicoloripes* (Pic, 1927) 與 *Micropodabrus pieli* (Pic, 1937) 除名並提出一個新組合: *Walteriella brunnea* (Wittmer 1955), comb. nov.

關鍵詞：臺灣，菊虎科，名錄，新組合。