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<td>Insecta matsumurana. New series : journal of the Faculty of Agriculture Hokkaido University, series entomology, 54: 133-166</td>
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<tr>
<td><strong>Issue Date</strong></td>
<td>1998-03</td>
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<tr>
<td><strong>Doc URL</strong></td>
<td><a href="http://hdl.handle.net/2115/9887">http://hdl.handle.net/2115/9887</a></td>
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TYPE SPECIMENS OF MATSUMURA'S SPECIES OF FULGOROIDEA (EXCLUDING DELPHACIDAE) IN THE HOKKAIDO UNIVERSITY INSECT COLLECTION, JAPAN (HEMIPTERA: FULGOROMORPHA)

By AI-PING LIANG and MASAAKI SUWA

Abstract

LIANG, A.-P. and SUWA, M. 1998. Type specimens of Matsumura's species of Fulgoroidea (excluding Delphacidae) in the Hokkaido University Insect Collection, Japan (Hemiptera: Fulgoromorpha). Insecta Matsum. n. s. 54: 133 – 166.

Original label data associated with all extant known types of Asian species of Fulgoroidea (excluding Delphacidae) named by Shonen Matsumura in the Hokkaido University Insect Collection are recorded. Eighty-seven lectotypes are newly designated. The previous lectotype designations of Betacixius rinkihonis Matsumura, Brixia formosana Matsumura, Cixius arisanus Matsumura, C. hopponis Matsumura, C. kommonis Matsumura, C. nitobei Matsumura, C. pilosellus Matsumura, C. suturalis Matsumura, C. velox Matsumura, Kuvera longipennis Matsumura, and Oliarus oryzae Matsumura are considered as invalid and are rejected.

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Supported by the Special Grant-in-Aid for Promotion of Education and Science in Hokkaido University provided by the Ministry of Education, Science, Sports and Culture, Japan.
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INTRODUCTION

Shonen Matsumura (1872–1960) was born at Akashi, Hyogo Prefecture, Japan, and studied entomology at the Sapporo Agricultural College (now the Faculty of Agriculture of the Hokkaido University). After graduating he entered a distinguished career as a professor of entomology at the Hokkaido University (see biographies by Watanabe & Fukushima, 1949; Uchida & Watanabe, 1961).

Matsumura has been justly styled the father of entomology of Japan. Between 1895 and 1945 he published more than 240 papers and 35 books, in which he described a large number of new taxa in almost all orders of insects, mainly from Japan, Taiwan and Sakhalin. Many of the original descriptions of Matsumura’s new taxa were written in Japanese in his earlier iconographic publications without indication of new taxa and designation of types. The Matsumura collection has been housed in the Hokkaido University, Sapporo, Japan. Unfortunately species descriptions by Matsumura, like most of those by others published at that time, are no longer adequate for present-day species recognition and an examination of type material is usually an essential part of all revisionary work. Since such examinations are often impeded by a lack of information on the whereabouts of the type material in question, the present study was undertaken to document the types of Matsumura’s fulgoroid species (except delphacids) in Sapporo. The work was undertaken during a three-week visit by Liang to the Hokkaido University, in October 1997.

Matsumura’s collection of Fulgoroidea has apparently been maintained as he left it and is housed in its original cabinet with the specimens arranged under species headings. Additional specimens obtained after the publication of descriptions have been arranged together with the type series. A major problem in studying the Matsumura types was the identification of bona fide syntypes. This problem was addressed by Tomokuni (1994) who published on Matsumura’s types in Tingidae (Heteroptera). As Matsumura did not use type labels, in the modern sense, it was necessary to compare the data of all specimens of his species with the information given in the original publication. Matsumura’s descriptions also often lack information of the number of specimens examined; in such cases, all specimens that match the published data are treated as syntypes.

The list of types is arranged in alphabetical sequence by specific epithet. Each name is followed by the author, date, and page reference. The original genus-name combination is shown in parentheses ( ) following the publication data. Subsequent changed name combination is presented where applicable in brackets [ ].

Lectotype and paralectotype designations are made where appropriate. Most species of Fulgoroidea can be identified accurately only by using diagnostic characters in the males, particularly the structures of the male genitalia. Therefore, in most cases a male was designated as the lectotype when syntypes of both sexes existed. A female was designated as the lectotype when no male was present among the known syntypes.

To better preserve the historical status of the types, information from each syntype was recorded exactly as given on labels, with (1), (2), (3), etc., indicating the sequence of labels on the pin from top to bottom. Comments are given when necessary. Our printed red lectotype or yellow paralectotype label is attached to each specimen so designated though not shown in the following lines. No taxonomic changes (e.g. synonymies and new combinations) are given in the present checklist.

Superfamily Fulgoroidea
Family Cixiidae

*arisanus* Matsumura, 1914a: 396 *(Cixius)*

Holotype ♀ – (1) Formosa Matsumura [underside] Tappan 29/IV '07; (2) [Matsumura's handwriting] *C. arisanus* n. sp. det. Matsumura; (3) Lectotype.

This species was described from a single female specimen. The lectotype designation by Tsaur et al. (1991b: 186) is here considered as invalid.

*artemisiae* Matsumura, 1914a: 428 *(Oliarius) [Oecleopsis]*

Lectotype ♂, by present designation – (1) [red label] Lectotypus; (2) 5, 22 Sapporo Matsum.

Paralectotypes 3 ♂, 1 ex. [abdomen missing] [in the same lot with lectotype], by present designation – same data as lectotype.

Paralectotypes 10♂, 6 ♀, 1 ex. [abdomen missing], by present designation – (1) 5, 22 Sapporo Matsum.

Paralectotypes 3♂, 2♀, 1 ex. [abdomen missing], by present designation – (1) 5, 22 Sapporo Matsum.; (2) [Matsumura's handwriting] *Oecleopsis artemisiae* Mats.; (3) *Oecleopsis artemisiae* (Ms.) Anufriev det., 1975.

Paralectotypes 3♂, 1♀, by present designation – (1) 5, 22 Sapporo Matsum.; (2) *Oecleopsis artemisiae* (Ms.) Anufriev det., 1975.

Paralectotype 1♀, by present designation – (1) middle [in Chinese]/7 90 Jozankei [in Chinese].


*bicolor* Matsumura, 1914a: 395 *(Cixius)*


Paralectotype 1♂, by present recognition – (1) Formosa Matsumura [underside] Horisha [in
Boninensis Matsumura, 1914a: 423 (Oliarius)
Paralectotypes 2 ♂, 1 ♀, by present recognition – (1) 20.VIII.1905 Ogasawara Matsumura.

Brunneus Matsumura, 1914a: 417 (Betacixius)
Lectotype ♂, by present designation – (1) Formosa Matsumura [underside] Toroen 19/4, 07; (2) [Matsumura’s handwriting] Betacixius brunneus n. sp.; (3) [red label] Type Matsumura.

Centralis Matsumura, 1914a: 405 (Cixius)
Holotype ♀ – (1) Aomori Nitobe; (2) [Matsumura’s handwriting] Cixius centralis n. sp.

Cingulatus Matsumura, 1914a: 403 (Cixius)
Holotype ♀ – (1) VIII 1905 Hachijo; (2) [Matsumura’s handwriting] C. cingulatus Mats.

Clypealis Matsumura, 1914a: 415 (Betacixius)
Paralectotype 1 ♀ [in the same lot with lectotype], by present designation – same data as lectotype.
Paralectotypes 1 ♂, 1 ♀, by present designation – (1) Formosa Matsumura [underside] Tappan 24/IV '07; (2) [Matsumura’s handwriting] Betacixius clypealis n.; (3) [red label] Type Matsumura.

Clypealis var. vittiferons Matsumura, 1914a: 416 (Betacixius)
Lectotype ♂, by present designation – (1) Formosa Matsumura [underside] Tappan 24/IV '07; (2) [Matsumura’s handwriting] Betacixius clypealis var. vittiferons; (3) [red label] Type Matsumura.
Paralectotype 1 ♂, by present designation – (1) Formosa Matsumura.

Flavescens Matsumura, 1914a: 405 (Cixius)
Holotype ♂ – (1) Formosa Matsumura [underside] 2/VII 1906 Koshun; (2) [Matsumura’s handwriting] C. flavescens n. sp.

Flaviceps Matsumura, 1900: 208 (Oliarus) [Kuvera]
Lectotype ♀, by present designation – (1) Gifu; (2) Japan DR. MATSUMURA; (3) flaviceps n. sp.; (4) [red label] Lectotypus Kuvera flaviceps Mats. design. Anufriev, 1981.

Flaviceps var. costalis Matsumura, 1914a: 409 (Kuvera)
Lectotype ♀, by present designation – (1) 15/VI 1904 Moiwa; (2) [Matsumura’s handwriting]
C. costalis n. sp. det. Matsumura; (3) [red label] Lectotypus Kuvera flaviceps var. costalis Mats. design. Anufriev, 1975.

flaviceps var. curvata Matsumura, 1914a: 408 (Kuvera)
Holotype ♀ – (1) 15/VI Kogota; (2) [Matsumura's handwriting] Metacixius flaviceps var. curvata det. Matsumura; (3) [red label] Lectotypus Kuvera flaviceps var. curvata design. Anufriev, 1975.

flaviceps var. fumata Matsumura, 1914a: 409 (Kuvera)

flaviceps var. pallidula Matsumura, 1914a: 409 (Kuvera)
Paralectotype 1 ex. [abdomen missing, in the same lot with lectotype], by present designation – same data as lectotype.
Paralectotypes 2 ♂ , 5 ♀ , 1 ex. [abdomen missing], by present designation – (1) Sapporo Matsum.
Paralectotypes 1 ♂, 1 ♀ , 1 ex. [abdomen missing], by present designation – (1) Jozankei [in Chinese] 8/28.
Paralectotypes 2 ♂, 3 ♀ , by present designation – (1) 9/IX Ziozan.
Paralectotypes 2 ♀ , by present designation – (1) 28/VIII Ziozan.
Paralectotypes 3 ♂ , 1 ex. [abdomen missing], by present designation – (1) 18/VIII 1905 Jozankei. Anufriev (1991: 10) raised Kuvera flaviceps var. pallidula Matsumura to Kuvera pallidula Matsumura.

flaviceps var. vittata Matsumura, 1914a: 408 (Kuvera)
Lectotype ♀ , by present designation – (1) 15/VI 00 Moiwa; (2) [Matsumura's handwriting] M. flaviceps var. vittata det. Matsumura; (3) [red label] Lectotypus Kuvera flaviceps var. vittata design. Anufriev, 1975.
Paralectotype 1 ♂ , by present designation – (1) 11/VI '04 Moiwa.

formosana Matsumura, 1914a: 432 (Brixia) [Andes]
This species was described from a single female specimen. The lectotype designation by Tsaur et al. (1991a: 68) is here considered as invalid.
formosanus Matsumura, 1914a: 427 (*Oliarus*)
Paralectotype 1 ♂, designated by Tsaur et al. (1988: 45) – (1) transcription: Hokudo 31/VII 1906; (2) [brick-red label] Paralectotype.
Paralectotypes 6 ♂, 5 ♀, designated by Tsaur et al. (1988: 45) – (1) 31/VII 1906 Hokuto; (2) [brick-red label] Paralectotype.
Paralectotypes 4 ♂, 6 ♀, by present recognition – (1) Formosa Matsumura [underside] Koshun 7/7–06; (2) [Matsumura’s handwriting] *Oliarus formosanus* Mats.
Paralectotypes 1 ♂, 3 ♀, by present recognition – (1) Formosa Matsumura [underside] Koshun 7/7–06.
Paralectotypes 4 ♂, 6 ♀, by present recognition – (1) 31/VII 1906 Hokuto.

**giganteus** Matsumura, 1914a: 394, fig. 1 (*Macrocixius*)
Paralectotype 1 ♀, designated by Tsaur et al. (1991a: 5) – (1) Kumamoto H. Kawamura [underside] June, 15th 1907; (2) [Matsumura’s handwriting] *Macrocixius giganteus* n. sp. det. Matsumura; (3) [red label] Type Matsumura.

**hachijonis** Matsumura, 1914a: 399 (*Cixius*)

**hachijonis** Matsumura, 1914a: 422 (*Oliarus*)
Holotype ♀ – (1) Hachijo Takahashi; (2) [red label] Holotypus; (3) [Matsumura’s handwriting] *O. hachijonis* Mats.

**hakonensis** Matsumura, 1914a: 404 (*Cixius*)

**harimaensis** Matsumura, 1914a: 431 (*Brixia*)

**harimaensis** Matsumura, 1914a: 421 (*Oliarus*)
Lectotype ♂, by present designation – (1) [red label] Lectotypus; (2) Takasago [in Japanese] 7/7; (3) [Matsumura’s handwriting] *O. harimennis* [sic] n. sp. det. Matsumura.
Paralectotypes 1 ♀, 1 ex. [abdomen missing] [in the same lot with lectotype], by present designation – same data as lectotype.
Paralectotypes 2 ♀, by present designation – (1) Takasago 7/– *O. harimensis* n. sp.
Paralectotypes 2 ♀, by present designation – (1) Takasago.
Paralectotypes 1 ♂, 5 ♀, by present designation – (1) Takasago [in Japanese] 7/–.
Paralectotype 1 ♀, by present designation – (1) XI 1903 Takasago.

*hopponis* Matsumura, 1914a: 406 (Cixius)
This species was described from a single female specimen. The lectotype designation by Tsaur et al. (1991b: 195) is here considered as invalid.

*hopponis* Matsumura, 1914a: 427 (Oliarus)
Holotype ♀ – (1) Formosa Matsumura [underside] 7/VIII 1906 Hoppo; (2) [Matsumura’s handwriting] *Oliarus* *hopponis* n. sp.

*horishanus* Matsumura, 1914a: 418 (Oliarus)

*ibukisanus* Matsumura, 1914a: 397 (Cixius)

*iguchii* Matsumura, 1914a: 419 (Oliarus)
Holotype ♀ – (1) Japan Matsumura [underside] Harima [in Chinese]; (2) [Matsumura’s handwriting] O. *iguchii* n. sp.; (3) [red label] Type Matsumura.

*iguchii* Matsumura, 1914a: 407 (Trirhacus)
Holotype ♀ – (1) Japan Matsumura [underside] Nagano [in Japanese] 42.10.12; (2) [Matsumura’s handwriting] *Trirhacus iguchii* n. sp.; (3) [red label] Type Matsumura.

*kagoshimensis* Matsumura, 1914a: 429 (Oliarus)
Lectotype ♂, paralectotypes 4 ♀ [in same lot with lectotype], by present designation – (1) [red label] Lectotypus; (2) [red label] paratypus; (3) 10/VII Kagoshima; (4) [Matsumura’s handwriting] O. *kagoshimensis* n. sp.
Paralectotypes 15 ♂, 3 ♀, 5 exs. [abdomen missing], by present designation – (1) 10/VII 1903 Kagoshima

*kommonis* Matsumura, 1914a: 400 (Cixius)
handwriting] *Cixius kammonis* [sic] n. sp. det. Matsumura.
This species was described from a single male specimen. The lectotype designation by Tsaur et al. (1991b: 301) is here considered as invalid.

**kotoshonis** Matsumura, 1914a: 430 (*Mundopa*)
Paralectotype 1 ♂, by present designation — (1) Kotosho [illegible characters] T. Shiraki; (2) No. 1034.

**kumejimae** Matsumura, 1914a: 415 (*Betacixius*)
Lectotype ♀, by present designation — (1) Kumejima [in Japanese] 467 Japan Matsumura [underside] III/06 Okinawa; (2) [Matsumura's handwriting] *Betacixius kumejimae* n. sp.
Paralectotype 1 ♂, by present designation — (1) Okinawa Kuroiwa [underside] Kumejima.

**kuyanianus** Matsumura, 1914a: 398 (*Cixius*)
Paralectotype 1 ♂, by present recognition — (1) Formosa Matsumura [underside] Tappan 24/IV '07.

**ligustri** Matsumura, 1914a: 409 (*Kuvera*)

**longipennis** Matsumura, 1914a: 411 (*Kuvera*)
Holotype ♀ — (1) Formosa Matsumura [underside] Tappan 24/IV '07; (2) [Matsumura's handwriting] *Meta cixius longipennis* det. Matsumura; (3) [red label] Holotypus *Kuvera longipennis* Mats.
This species was described from a single specimen. The lectotype designation by Tsaur et al. (1991a: 65) is here considered as invalid.

**maculata** Matsumura, 1914a: 430 (*Barma*) [*Borysthenes*]
Lectotype ♂, by present designation — (1) Formosa Matsumura [underside] Toroen 19/IV '07; (2) [Matsumura's handwriting] *Barma maculata* n. det. Matsumura; (3) [red label] Type Matsumura.
Paralectotypes 3 ♂, 1 ♀, by present designation — (1) 7/VIII 1906 Hopopo.

**mori** Matsumura, 1914a: 426 (*Oliarus*) [*Oecleopsis*]
Paralectotype 1 ♂, by present designation – (1) Formosa Matsumura [underside] Puli [in Chinese] 26 IV '07; (2) mulberry [in Chinese]; (3) [Matsumura's handwriting] *O. mori* n. sp.
Paralectotypes 2 ♂, 2 ♀, 1 ex. [abdomen missing], by present designation – (1) Formosa Matsumura [underside] Tappan 24/V '07.
Paralectotypes 1♂, 1 ♀, by present recognition – (1) Formosa Matsumura [underside] Toroen 19/IV '07.
Paralectotypes 1♂, 1 ♀, by present recognition – (1) Formosa Matsumura [underside] Shushu 29/IV '07.
Paralectotypes 3 ♂, 1 ♀, by present recognition – (1) Formosa Matsumura [underside] 16/VIII '06 Taikoka.
Paralectotype 1 ♂, by present recognition – (1) Formosa Matsumura [underside] 2/III 1909 Kon.

*nawae* Matsumura, 1914a: 402 (*Cixius*)

*nitobei* Matsumura, 1914a: 401 (*Cixius*)
Holotype ♂ – (1) Arisan 1912.10.20 Nitobe; (2) [Matsumura’s handwriting] *C. nitobei* Mats. det. Matsumura; (3) Lectotype.
This species was described from a single male specimen. The lectotype and paralectotype designations by Tsaur et al. (1991b: 197) are here considered as invalid. The male specimen (National Taiwan University Insect Museum, Taipei, Taiwan) designated as paralectotype by Tsaur et al. (1991b: 197) could not be a syntype since Matsumura (1914) never mentioned it in the original description.

*obliquus* Matsumura, 1914a: 414 (*Betacixius*)
Lectotype ♀, by present designation – (1) Ibuki [in Japanese] 8/22 Japan Matsumura; (2) 2/5; (3) [Matsumura's handwriting] *Betacixius obliquus* n.

*obliquus* var. *pallens* Matsumura, 1914a: 415 (*Betacixius*)
Paralectotype 1 ♂ [in the same lot with lectotype], by present designation – same data as lectotype.
Paralectotypes 1 ♂, 1 ♀, by present designation – (1) Takao [in Japanese] 7/19; (2) [Matsumura’s handwriting] *Betacixius obliquus* var. *pallens* n.

*ocellata* Matsumura, 1914a: 433 (*Brixia*) [Andes]
Holotype ♀ – (1) Formosa Matsumura [underside] 2/VII 1906 Koshun; (2) [Matsumura’s handwriting] *Brixia ocellata* n. det. Matsumura.
This species was described from a single female specimen. The lectotype designation by Tsaur et al. (1991a: 72) is here considered as invalid.
ocellatus Matsumura, 1914a: 412, fig. 3 (Betacixius)

ogasawarensis Matsumura, 1914a: 422 (Oliarus) [Pentastiridius]
Paralectotypes 6 ♂, 5 ♀, by present recognition – (1) 20 VIII 1905 Ogasawara Matsumura.

okinawanus Matsumura, 1936: 83 (Cixius)
Lectotype ♂, by present designation – (1) SHURI Okinawa-Ken 1935,3,17 Chiro, Yohena; (2) [Matsumura's handwriting] Cixius okinawanus; (3) [pink label] no data.

oryzae Matsumura, 1911a: 134 (Oliarus)
This species was described from an unspecified number of male and female specimens from Taichu and Chuo in Taiwan. Tsaur et al. (1988: 64) designated the male lectotype and paralectotypes (an unspecified number and sexes of specimens) without any label data. It is obvious that Tsaur et al.'s lectotype and paralectotype designations cannot be regarded as valid. We have not been able to find the syntypes studied by Tsaur et al. (1988). We found only one female syntype and two non-type male specimens. The female specimen is from the type locality and bears Matsumura's determination label and is here designated as lectotype. The other two male specimens were collected from Koshun, Taiwan and are not syntypes.

pachyceps Matsumura, 1914a: 420 (Oliarus) [Pentastiridius]

pilosellus Matsumura, 1914a: 405 (Cixius)
This species was described from a single female specimen. The lectotype designation by Tsaur et al. (1991b: 305) is here considered as invalid.

quadricinctus Matsumura, 1914a: 419 (Oliarus) [Reptalus]
Lectotype ♂, by present designation – (1) 28/VI Maiko; (2) [Matsumura’s handwriting] O. 4-cinctus n. sp.; (3) [red label] Type Matsumura.
Paralectotypes 2♂, 1♀ [in the same lot with lectotype], by present designation – same data as lectotype.

*rinkihonis* Matsumura, 1914a: 417 (*Betacixius*)
This species was described from a single male specimen. The lectotype designation by Tsaur et al. (1991a: 44) is here considered as invalid.

*speciosus* Matsumura, 1914a: 424 (*Oliarus*)
Paralectotype 1♀, by present recognition – (1) Formosa Matsumura [underside] 1/VII 1906 Koshun; (2) [Matsumura’s handwriting] *O. speciosus* n. sp.

*suturalis* Matsumura, 1914a: 401 (*Cixius*)
This species was described from a single female specimen. The lectotype designation by Tsaur et al. (1991b: 302) is considered here as to be invalid and is rejected.

*tappanella* Matsumura, 1914a: 410 (*Kuvera*)
Lectotype ♂, designated by Tsaur et al. (1991a: 54); Paralectotype 1♂ [in the same lot with lectotype], by present recognition – (1) Formosa Matsumura [underside] Torren 19/IV; (2) [Matsumura’s handwriting] Meta*cixius tappanella* n. sp. det. Matsumura; (3) [red label] Lectotypus *Kuvera tappanella* Mats. design. Anufriev, 1981; (4) [red label] Paralectotypus *Kuvera tappanella* Mats. design. Anufriev, 1981.
Paralectotypes 2♂, 2♀, by present recognition – (1) Formosa Matsumura [underside] Torren 19/IV '07; (2) [red label] PARALECTOTYPUS *Kuvera tappanella* Mats. design. anufriev, 1981.

*tappanus* Matsumura, 1914a: 398 (*Cixius*)
Lectotype ♂, designated by Tsaur et al. (1991b: 197) – (1) Formosa Matsumura [underside] Tappan 24/IV 07; (2) [Matsumura’s handwriting] *Cixius tappanus*; (3) Lectotype.
Paralectotype 1♂, by present recognition – (1) Formosa Matsumura [underside] Tappan 24/IV '07.
tappanus Matsumura, 1914a: 424 (Oliarus)

tonkinensis Matsumura, 1914a: 413 (Betacixius)
Lectotype ♀, by present designation – (1) Tonkin Montes Mauson April, Mai 2–3000’ H. Fruhstorfer; (2) [Matsumura’s handwriting] Betacixius tonkinensis n. sp. det. Matsumura.
Paralaectotypes 1♂, 1♀ [in the same lot with lectotype], by present designation – same data as lectotype.
Paralaectotypes 1♂, 1♀ [abdomen missing], by present designation – (1) Tonkin Montes Mauson April, Mai 2–3000′; (2) H. Fruhstorfer.

toroensis Matsumura, 1914a: 410 (Kuvera)

towadensis Matsumura, 1914a: 402 (Cixius)
Lectotype ♂, by present designation – (1) Hakone 7/27.
Paralaectotype 1♀, by present designation – (1) late [in Chinese] VII 1905 Towada; (2) [Matsumura’s handwriting] Cixius towadensis; (3) [red label] Type Matsumura.

velox Matsumura, 1914a: 403 (Cixius)
This species was described from a single female specimen. The lectotype designation by Tsaur et al. (1991b: 304) is here considered as invalid.

velox Matsumura, 1914a: 425 (Oliarus)

Family Meenoplidae

formosana Matsumura, 1914b: 284, figs. 9a–d (Paranisia) [Anigrus]
Lectotype ♂, designated by Tsaur et al. (1986: 113) – (1) Formosa Matsumura [underside] 30/ VII 1906 Hokuto; (2) [purple-ringed round label] LECTOTYPE; (3) LECTOTYPE ♂ Paranisia
Paralectotype 1 ♂, designated by Tsaur et al. (1986: 113) - (1) Formosa Matsumura; (2) [underside] Hokuto 30.VIII.1906; (3) [blue-ringed round label] PARALECTOTYPE; (4) Paralectotype ♂ Paranisia formosana desig. Tsaur, Yang & M. R. Wilson, 1986.
Paralectotypes 2 ♂, 2 ♀ [in same lot], designated by Tsaur et al. (1986: 113) - (1) Formosa Matsumura [underside] 31/VII 1906 Hokuto; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotypes 2 ♂ 2 ♀ Paranisia formosana desig. Tsaur, Yang & M. R. Wilson, 1986.
Paralectotype 1 ♀, designated by Tsaur et al. (1986: 113) - (1) Formosa Matsumura [underside] 31/VII 1906 Hokuto; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype ♀ Paranisia formosana desig. Tsaur, Yang & M. R. Wilson, 1986.
Paralectotype 1 ♂, designated by Tsaur et al. (1986: 113) - (1) Formosa Matsumura [underside] Hokuto 6/V 1907; (2) [blue-ringed round label] PARALECTOTYPE; (3) [Matsumura’s handwriting] Paranisia formosana n. sp.; (4) Paralectotype ♀ Paranisia formosana desig. Tsaur, Yang & M. R. Wilson, 1986.
Paralectotype 1 ♂, designated by Tsaur et al. (1986: 113) - (1) Formosa Matsumura [underside] 31/VII 1906 Shiriu; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotypes 1 ♂ 1 ♀ Paranisia formosana desig. Tsaur, Yang & M. R. Wilson, 1986.
Paralectotypes 1 ♀, 1 ♀ [in same lot], designated by Tsaur et al. (1986: 113) - (1) Formosa Matsumura [underside] 21/VII 1906 Shoka; (2) [Matsumura’s handwriting] Paranisia formosana n. sp.; (4) Paralectotype ♂ Paranisia formosana desig. Tsaur, Yang & M. R. Wilson, 1986.
Paralectotypes 1 ♂, 1 ♀ [in same lot], designated by Tsaur et al. (1986: 115) - (1) Formosa Matsumura [underside] 21/VII 1906 Shoka; (2-3) [blue-ringed round label] PARALECTOTYPE; (4) Paralectotypes 1 ♂ 1 ♀ Paranisia frequens desig. Tsaur, Yang & M. R. Wilson, 1986.
Paralectotypes 1 ♂, 1 ♀, designated by Tsaur et al. (1986: 115) - (1) Formosa Matsumura [underside] 20/VII 1906 Shoka; (2-3) [blue-ringed round label] PARALECTOTYPE; (4) Paralectotypes 1 ♂ 1 ♀ Paranisia frequens desig. Tsaur, Yang & M. R. Wilson, 1986.
Paralectotypes 2 ♂, designated by Tsaur et al. (1986: 115) - (1) Formosa Matsumura [underside] 31/VII 1906 Hokuto; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype ♂ Paranisia frequens desig. Tsaur, Yang & M. R. Wilson, 1986.
Paralectotypes 3 ♀ [in same lot], designated by Tsaur et al. (1986: 115) - (1) 7/3 Hokuto [in Japanese] Formosa Matsumura; (2-4) [blue-ringed round label] PARALECTOTYPE; (5) Paralectotype ♀ Paranisia frequens desig. Tsaur, Yang & M. R. Wilson, 1986.
Paralectotype 1 ♀, designated by Tsaur et al. (1986: 115) - (1) Formosa Matsumura [underside] Koshun; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype 1 ♀ Paranisia frequens desig. Tsaur, Yang & M. R. Wilson, 1986.
Paralectotypes 1 ♂, 1 ♀ [in same lot], designated by Tsaur et al. (1986: 115) - (1) Formosa Matsumura [underside] 5/VII 1906 Koshun; (2-3) [blue-ringed round label]
Paralectotype; (4) Paralectotype Paralectotype Paralectotype Paralectotype Paralectotype

Paralectotype 1 ♂, designated by Tsaur et al. (1986: 115) – (1) Formosa Matsumura [underside] Koshun 7/VII 1906; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype ♀ Paralectotype Paralectotype Paralectotype Paralectotype

Paralectotype 1 ♂, designated by Tsaur et al. (1986: 115) – (1) Formosa Matsumura [underside] 5/VII 1906 Koshun; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype ♀ Paralectotype Paralectotype Paralectotype Paralectotype


Paralectotype 1 ♂, designated by Tsaur et al. (1986: 115) – (1) Formosa Matsumura [underside] 1906 Taihokan; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype ♀ Paralectotype Paralectotype Paralectotype Paralectotype

Paralectotypes 2♂, 3 ♂, designated by Tsaur et al. (1986: 115) – (1) 29/VII 1906 Tansui; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype Paralectotype Paralectotype Paralectotype Paralectotype

Paralectotype 1 ♂, designated by Tsaur et al. (1986: 115) – (1) Formosa Matsumura [underside] 7/VII 1906 Koshun; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype ♀ Paralectotype Paralectotype Paralectotype Paralectotype

Paralectotype 1 ♂, designated by Tsaur et al. (1986: 115) – (1) Formosa Matsumura [underside] 16/VIII 1906 Taihokan; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype 1 ♂ Paralectotype Paralectotype Paralectotype Paralectotype

Paralectotype 1 ♂, designated by Tsaur et al. (1986: 115) – (1) Formosa Matsumura [underside] 16/VIII 1906 Taihokan; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype 1 ♂ Paralectotype Paralectotype Paralectotype Paralectotype

Paralectotype 1 ♂, designated by Tsaur et al. (1986: 115) – (1) Formosa Matsumura [underside] 12/VII 1906 Ako; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype Eponisia guttula designated Tsaur, Yang & M. R. Wilson, 1986.

Paralectotype 1 ♂, designated by Tsaur et al. (1986: 115) – (1) Formosa Matsumura [underside] 7/VII 1906 Hoppo; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype Eponisia guttul nervis designated Tsaur, Yang & M. R. Wilson, 1986.

Paralectotype 1 ♂, designated by Tsaur et al. (1986: 115) – (1) Formosa Matsumura [underside] 1906 Taihokan; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype Eponisia guttinervis designated Tsaur, Yang & M. R. Wilson, 1986.

Paralectotype 1 ♂, designated by Tsaur et al. (1986: 115) – (1) Formosa Matsumura [underside] 15/VII 1906 Koshun; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype ♂ Eponisia guttinervis designated Tsaur, Yang & M. R. Wilson, 1986.

Paralectotype 1 ♂, designated by Tsaur et al. (1986: 115) – (1) Formosa Matsumura [underside] 15/VII 1906 Koshun; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype ♂ Eponisia guttinervis designated Tsaur, Yang & M. R. Wilson, 1986.

Paralectotype 1 ♂, designated by Tsaur et al. (1986: 115) – (1) Formosa Matsumura [underside] 15/VII 1906 Koshun; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype ♂ Eponisia guttinervis designated Tsaur, Yang & M. R. Wilson, 1986.

Paralectotype 1 ♂, designated by Tsaur et al. (1986: 115) – (1) Formosa Matsumura [underside] 15/VII 1906 Koshun; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype ♂ Eponisia guttinervis designated Tsaur, Yang & M. R. Wilson, 1986.

Paralectotype 1 ♂, designated by Tsaur et al. (1986: 115) – (1) Formosa Matsumura [underside] 15/VII 1906 Koshun; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype ♂ Eponisia guttinervis designated Tsaur, Yang & M. R. Wilson, 1986.

Paralectotype 1 ♂, designated by Tsaur et al. (1986: 115) – (1) Formosa Matsumura [underside] 15/VII 1906 Koshun; (2) [blue-ringed round label] PARALECTOTYPE; (3) Paralectotype ♂ Eponisia guttinervis designated Tsaur, Yang & M. R. Wilson, 1986.
**nigricans** Matsumura, 1914b: 285 (*Paranisia*)

Lectotype ♂, designated by Tsaur et al. (1986: 115) – (1) Formosa Matsumura; (2) [underside] Hoppo 8/VIII.1906; (3) [purple-ring round label] LECTOTYPE; (4) Lectotype ♂ *Paranisia nigricans* desig. Tsaur, Yang & M. R. Wilson, 1986.


Paralectotype 1 ♀, by present recognition – (1) Formosa Matsumura [underside] Tainan 2/4 '07.

Paralectotypes 1 ♂, 1 ♀, by present recognition – (1) Formosa Matsumura [underside] 20/VII 1906 Shoka.


Paralectotypes 2 ♂, 1 ♀, by present recognition – (1) Formosa Matsumura [underside] 23/7 '06 Shinsha.

Tsaur et al. (1986: 113) synonymised this species with *Anigrus frequens* (Matsumura).

**Family Derbidae**

**albicennervis** Matsumura, 1914b: 292 (*Lamenia*)


Paralectotypes 2 ♂, 1 ♀, by present designation – (1) Formosa Matsumura [underside] 7/5 1905 Koshun [in Chinese].

Paralectotype 1 ♂, by present designation – (1) Formosa Matsumura [underside] Taibyo 8/V '07.

**albipennis** Matsumura, 1914b: 289 (*Vekunta*)


Paralectotype 1 ♀, by present designation – (1) Arisan 1912.10.20 Nitobe; (2) No. 1028; (3) [Matsumura’s handwriting] *Meenoplus albipennis* n. sp. [underside] Shirokofukiunka [in Japanese].


Paralectotype 1 ♀, by present designation – (1) Formosa Matsumura [underside] Toroen 19/4 '07.

Paralectotype 1 ♀, by present designation – (1) Koshun 7/3 1906.

**boninensis** Matsumura, 1914b: 290, figs. 11a–d (*Tempora*) (*Nesokaha (Tempora))

Lectotype ♂, by present designation – (1) 20 VIII 1905 Ogasawara Matsumura; (2) [Matsumura’s handwriting] *Tempora boninensis* det. Matsumura.

Paralectotype 1 ♀ [in the same lot with lectotype], by present designation – same data as lectotype.

Paralectotype 1 ♀, by present designation – (1) 20 VIII 1905 Ogasawara Matsumura.
coccinea Matsumura, 1940b: 47 (Rhotana) [Saccharodite]
(2) [Matsumura’s handwriting] Rhotana coccinea n. det. Matsumura.

formosana Matsumura, 1914b: 295 (Rhotana)
Lectotype ♀, by present designation – (1) Formosa Matsumura [underside] Kanshirei 7 X ’09;
(2) Rhotana formosana Matsumura lectotype.
Paralectotype 1 ♀, by present designation – (1) Formosa Matsumura [underside] Kaannai [not “Kanshirei” as in the original description] 29 VII ’06.

formosana Matsumura, 1914b: 297, figs. 12a–d (Shizuka)

formosanus Matsumura, 1914b: 301, figs. 15a–d (Mesotiocerus) [Megatropis]
Holotype ♂ – (1) 23/VII 1906 Shinsha; (2) [Matsumura’s handwriting] Mesotiocerus formosanus n. sp. det. Matsumura.

hibarensis Matsumura, 1935: 79 (Nomuraida) [Losbanosia]
Holotype ♀ – (1) Lake HIBARA Fukusima, ken 1935.8.22 S. Nomura; (2) [Matsumura’s handwriting] Nomuraida hibarana M. det. Matsumura.
Chou et al. (1985) transferred hibarensis from Nomuraida to Losbanosia. Yang & Wu (1994) accepted this generic placement.

hopponis Matsumura, 1914b: 292 (Lamenia)

hopponis Matsumura, 1914b: 294 (Rhotana) [Sumangala]
Holotype ♂ – (1) Formosa Matsumura [underside] 7/VIII 1906 Hoppo; (2) [Matsumura’s handwriting] Rhotana hopponis det. Matsumura; (3) considered to be the holotype (by B. Zelazny, 1979).

horishana Matsumura, 1914b: 302 (Zoraida)
Lectotype ♀ [right forewing and hindwing missing], by present designation – (1) 143; (2) [Matsumura’s handwriting] Zoraida horishana var. nakaunrao det. Matsumura [underside] Horishahanenagatlnka [in Japanese]; (3) [red label] Type Matsumura.
Paralectotype 1 ♀, by present designation – (1) Formosa Matsumura [underside] Horisha 26/X ’07; (2) [Matsumura’s handwriting] Zoraida horishana det. Matsumura; (3) Horishahanenagatlnka [in Japanese].
Paralectotype 1 ♀, by present designation – (1) Formosa Matsumura [underside] Horisha 26/X ’07.
Paralectotype 1 ♀, by present designation – (1) Formosa Matsumura [underside] Kanshirei 21/IX '07.

_infumata_ Matsumura, 1914b: 303, figs. 16a-d (Shirakia) [Shirakiana]
Lectotype ♂, by present designation – (1) Formosa Matsumura [underside] 7/VIII 1906 Hoppo; (2) [Matsumura’s handwriting] _Shirakia infumata_ det. Matsumura.
Paralectotype 1 ♂, by present designation – (1) Shoka 7/20.

_kagoshimana_ Matsumura, 1914b: 294 (Rhotana) [Saccharadite]
Zelazny (1981: 236) transferred _kagoshimana_ from _Rhotana_ to _Saccharadite_.

_koannania_ Matsumura, 1914b: 302 (Zaraida)
Lectotype ♂, by present designation – (1) Formosa Matsumura [underside] Koshun 7/5 1906; (2) [Matsumura’s handwriting] _Zaraida koannania_ Mats. det. Matsumura; (3) [red label] Type Matsumura.
Paralectotype 1 ♂, by present designation – (1) Formosa Matsumura [underside] 21/III 1909 Koannania.
Paralectotype 1 ♂, by present designation – (1) 5/VII 1906 Koshun; (2) Kanshihanenagaunka [in Japanese].

_koreana_ Matsumura, 1915: 177 (Kamendaka)

_kotoshonis_ Matsumura, 1940b: 47 (Vekunta)
Lectotype ♂, by present designation – (1) Kotosho Matsumura [underside] Kano 1938; (2) [Matsumura’s handwriting] _Vekunta kotoshonis_ n. det. Matsumura; (3) [pink label] [no data].

_kuwayamae_ Matsumura, 1913: 63, pl. 8, fig. 13 (Thoracia) [Zaraida]
Lectotype ♂, by present designation – (1) Sapporo Matsumura [underside] Jozankei [in Chinese] Em VIII '07; (2) [Matsumura’s handwriting] _Thoracia kuwayamae_ n. sp.
Paralectotype 1 ♂, by present designation – (1) 6 7; (2) VII. 25/05 Moiwa [in Japanese] Sapporo [in Chinese].

_maculata_ Matsumura, 1914b: 295 (Rhotana)
Holotype ♂ – (1) Arisan 1912.10.20 Nitobe; (2) No. 1024; (3) Rirohoshi [in Japanese] [Matsumura’s handwriting] _Rh. maculata_ n. sp.; (4) considered to be the holotype (by B. Zelazny).
maculata Matsumura, 1914b: 288 (Yekunta)
Lectotype ♂, by present designation – (1) Formosa Matsumura [underside] Koshun 7/7–06;
(2) [Matsumura’s handwriting] Yekunta maculata n. p. [sic]; (3) [red label] Type Matsumura.
Paralectotype 1 ♀, by present designation – (1) Formosa Matsumura [underside] 7/VII 1906
Koshun.
Paralectotype 1 ♂, by present designation – (1) Formosa Matsumura [underside] 5/VII 1906
Koshun.
Paralectotype 1 ♂, by present designation – (1) 29/VI 1906 Koshun.
Paralectotype 1 ♂, by present designation – (1) Formosa Matsumura [underside] 7/VII 1906
Koshun.
Paralectotypes 2♂, 1 ♀, by present designation – (1) 7/4 Koshun [in Chinese] Formosa
Matsumura.
Paralectotype 1 ♀, by present designation – (1) Koshun 5/7 '06.
Paralectotype 1 ♂, by present designation – (1) Formosa Matsumura [underside] 7/VIII 1906
Hoppo.
Paralectotype 1 ♂, by present designation – (1) 23/VII 1906 Shinsha.
Paralectotypes 1♂, 2 ♀, by present designation – (1) Japan Matsumura [underside] Tanba [in

malloti Matsumura, 1914b: 288 (Yekunta)
Lectotype ♂, by present designation – (1) Kumamoto H. Kawamura [underside] X.11 1907;
(2) 5.
Paralectotypes 1 ♂, 1 ♀, by present designation – (1) Kumamoto H. Kawamura [underside]
X.11 1907.
Paralectotypes 3 ♀, by present designation – (1) 19/IX 1906 Nagasaki.
Paralectotypes 1♂, 1 ♀, by present designation – (1) Kamakura; (2) [Matsumura’s handwriting]
Yekunta okadai Muir.
Paralectotypes 2♂, 3 ♀, by present designation – (1) Japan Matsumura [underside] Matsuyama
Paralectotype 1 ex. [abdomen missing], by present designation – (1) Satsuma [in Japanese]
Japan Dr. Matsumura.
Paralectotype 1 ♀, by present designation – (1) Formosa Matsumura [underside] 21/III 1909
Gyochi.
Paralectotype 1 ♀, by present designation – (1) Formosa Matsumura [underside] Taipin [in
Chinese] 8/V '07.

nigricans Matsumura, 1914b: 293 (Lamenia)
(2) [Matsumura’s handwriting] L. nigricans Mats. det. Matsumura.
Paralectotype 1 ♀, by present designation – (1) Formosa Matsumura [underside] 6/VII 1906
Koshun.

nitobei Matsumura, 1914b: 293 (Lamenia)
Holotype ♂ – (1) No. C. Shimaunka [in Japanese]; (2) [Matsumura’s handwriting] Lamenia
nitobei det. Matsumura.

saccharivora Matsumura, 1910b: 13, pl. 15, fig. 6 (Nicertoides) [Kamendaka (Nicertoides)]
Lectotype ♂, by present designation – (1) Formosa Matsumura [underside] 11/VII 1906 Ako;
(2) [Matsumura’s handwriting] Chro[illegible]na saccharivora det. Matsumura; (3) 6.
Paralectotypes 8♂, 1 ♀, 1 ex., [in the same lot with lectotype], by present designation – same data as lectotype.
Paralectotypes 1♂, 2 ♀, by present designation – (1) Sugarcane [in Chinese]; (2) 7/11 Ako.
Paralectotype 1♂ [all wings missing], by present designation – (1) Formosa Matsumura [underside] 21/VII 1906 Ako.
Paralectotypes 1♂, 1 ♀, by present designation – (1) Formosa Matsumura [underside] 20/VII 1906 Shoka.
Paralectotype 1♂, by present designation – (1) Formosa Matsumura [underside] 24/XI 1906 Giran.

**sapporoensis** Matsumura, 1900: 209 *(Otiocerus) [Mysidioides]*

**satsumana** Matsumura, 1914b: 294 *(Rhotana)*
Holotype ♂ – (1) Kagoshima [in Japanese] 7/10; (2) [Matsumura’s handwriting] *Rhotana satsumana* det. Matsumura; (3) considered to be the holotype (by B. Zelazny).

**shirakii** Matsumura, 1914b: 289 *(Vekunta)*
Lectotype ♀, by present designation – (1) No. 1026; (2) [Matsumura’s handwriting] *Vekunta shirakii* det. Matsumura; (3) [red label] Type Matsumura.

**stigmata** Matsumura, 1914b: 290 *(Vekunta)*
Lectotype ♀, by present designation – (1) 6 VII 1906 Koshun; (2) [Matsumura’s handwriting] *Vekunta stigmata* det. Matsumura.
Paralectotype 1♂, by present designation – (1) Formosa Matsumura.

**tamagawana** Matsumura, 1914b: 291 *(Lamenia)*

**toroensis** Matsumura, 1914b: 296 *(Rhotana) [Saccharodite]*
Holotype ♂ – (1) Formosa Matsumura [underside] Toroen 19/4 '07; (2) [Matsumura’s handwriting] *Rhotana toroensis* n. det. Matsumura; (3) considered to be the holotype (by B. Zelazny).
Zelazny (1981: 236) transferred *toroensis* from *Rhotana* to *Saccharodite*.

**wanriana** Matsumura, 1914b: 292 *(Lamenia)*
Family Achilidae

**flaveola** Matsumura, 1914b: 271 (*Akotropis*)
Holotype ♀ – (1) S. 8/16; (2) Saigon; (3) [Matsumura’s handwriting] *Akotropis flaveola* M. det. Matsumura.

**formosana** Matsumura, 1914b: 275, figs. 6a–e (*Betatropis*)
Lectotype ♀, designated by Chen et al. (1989: 63) – (1) Formosa Matsumura; (2) [purple-ringed round label] LECTOTYPE; (3) [Matsumura’s handwriting] *Betatropis formosana* n. sp.; (4) [red label] Type Matsumura.
Paral ectotypes 1♂, 1♀, by present recognition – (1) Arisan 1912.10.20 Nitobe; (2) No. 1017; (3) [blue-ringed round label] PARALECTOTYPE.
Paral ectotype 1♀, by present recognition – (1) 23/VII 1906 Shinsha.

**formosana** Matsumura, 1914b: 277 (*Magadha*)
Lectotype ♀, designated by Chen et al. (1989: 38) – (1) Formosa Matsumura; (2) [purple-ringed round label] LECTOTYPE; (3) [Matsumura’s handwriting] *Magadha formosana* M. det. Matsumura.
Paral ectotype 1♀, by present recognition – (1) Formosa Matsumura [underside] 9/VIII 1906 Hoppo; (2) [blue-ringed round label] PARALECTOTYPE.

**formosana** Matsumura, 1914b: 279 (*Rhotala*)

**formosanus** Matsumura, 1914b: 283 (*Plectoderoides*)
Holotype ♀ – (1) [red-ringed round label] Holotype; (2) Formosa Matsumura [underside] Toroen 19/4 ’07; (3) [Matsumura’s handwriting] *Plectoderes* [sic] *formosana* M.

**fumata** Matsumura, 1914b: 270, figs. 4a–e (*Akotropis*)
Lectotype ♀, designated by Chen et al. (1989: 13) – (1) [purple-ringed red label] LECTOTYPE; (2) FORMOSA MATSUMURA ♀; (3) *Akotropis fumata* Mats. ♀ det. M.R. Wilson, 1987; (4) [red label] Type Matsumura.
Paral ectotypes 1♂, 3♀, by present recognition – (1) Formosa Matsumura [underside] Koshun [in Chinese] 7/5; (2) [blue-ringed round label] PARALECTOTYPE.
Paral ectotypes 1♂, 2♀, by present recognition – (1) 7/4 Koshun [in Chinese] Formosa Matsumura; (2) [Matsumura’s handwriting] *Hemitropis fumata* M. det. Matsumura; (3) [blue-ringed round label] PARALECTOTYPE.
Paralectotypes 3 ♀, by present recognition – (1) 29/VII 1906 Tansui.

**horishana** Matsumura, 1914b: 276 (*Betatropis*) [**Semibetatropis**]

**ibukisana** Matsumura, 1914b: 280 (*Rhotala*)
Holotype ♀ – (1) Gifu, Mt. Ibuki [in Japanese], Y. Nawa Japan Dr Matsumura; (2) [Matsumura's handwriting] *Rhotala ibukisana* M.; (3) [red label] Type Matsumura; (4) Ibukihirataunka [in Japanese].

**jozankeana** Matsumura, 1914b: 278 (*Rhotala*)

**lineola** Matsumura, 1914b: 274 (*Okatropis*)

**maculatus** Matsumura, 1914b: 282, figs. 8a–d (*Plectoderoides*)
Holotype ♂ – (1) Formosa Matsumura [underside] 14/III 1909 Koannania [not “Kanshirei” as in the original description]; (2) [Matsumura's handwriting] *Plectoderoides maculatus* M.

**malayana** Matsumura, 1914b: 271 (*Akotropis*)

**nawae** Matsumura, 1914b: 279 (*Rhotala*)

**nitobei** Matsumura, 1914b: 272 (*Akotropis*) [**Semibetatropis**]

**okunii** Matsumura, 1914b: 281 (*Helicoptera*) [**Epiptera**]
rubrostigma Matsumura, 1914b: 273, figs. 5a-e (Okatropis) [Deferunda]


Paralectotype 1♀, by present recognition – (1) Formosa Matsumura [underside] 7/VIII 1906 Hoppo.

striatella Matsumura, 1914b: 272 (Akotropis) [Phenelia]


vittata Matsumura, 1914b: 280 (Rhotala)


yanonis Matsumura, 1914b: 276, figs. 7a–d (Usana)


Paralectotype 1♀, designated by Chen et al. (1989: 25) – same data as lectotype.


Family Dictyopharidae

formosicola Matsumura, 1940a: 15 (Dictyophora [sic])

Holotype ♀ – (1) Formosa, Taikokan, 14 iv 1925, Matsumura.

fuscovittata Matsumura, 1910a: 110 (Dictyophora [sic])


Paralectotypes 3♀, by present designation – same data as lectotype.

gibbosa Matsumura, 1910a: 112 (Saigona)


Paralectotype 1♀, by present designation – (1) Formosa Matsumura [underside] Tappan 24/IV
"07; (2) [Matsumura’s handwriting] Saigona gibbosa n. sp.
Paralectotypes 6♂, 1 ♀, by present designation – (1) Formosa Matsumura [underside] Tappan 24/IV '07.

ishidae Matsumura, 1905: 55, pl. 21, fig. 5 (Dictyophora [sic]) [Saigona]
Lectotype ♂ , by present designation – (1) [underside] 4/7 [18]90 Jozankei [in Chinese]; (2) Sapporo DR. MATSUMURA; (3) [Matsumura’s handwriting] ishidae n. sp. det. Dr. Matsumura.
Paralectotype 1♀ , by present designation – (1) Sapporo DR. MATSUMURA; (2) [underside] 4/7 [18]90 Jozankei [in Chinese].
Paralectotype 1♀ , by present designation – (1) Urakawa.

koreana Matsumura, 1915: 176 (Dictyophora [sic])
Holotype ♀ – (1) Korea Seoul Ikuma [all in Chinese], [underside] 1914 (20); (2) [Matsumura’s handwriting] Dictyophora koreana n. sp. det. Matsumura.

maculata Matsumura, 1910a: 108 (Dictyophora [sic])
Paralectotype 1♀ , by present designation – same data as lectotype.
Paralectotypes 2♀ , by present designation – (1) 21/X 1903 Maiko.
Melichar (1912) synonymised this species with Dictyophora cummingi Distant.

mitsuhashii Matsumura, 1910a: 104 (Tenguella)
Lectotype ♂ , by present designation – (1) Kumamoto H. Kawamura [underside] X.10 1907; (2) 200.
Paralectotype 1♂ , by present designation – (1) 28/VIII 1904; (2) Kawasaki Mitsuhashi.
Paralectotypes 1♀, 1 ex. [abdomen missing], by present designation – (1) Kumamoto H. Kawam [underside] X.8 1907.
Paralectotype 1♀, by present designation – (1) Kumamoto H. Kawam [underside] X.8 1907; (2) [red label] Type Matsumura; (3) Mitsuhashitengusukeba [in Japanese].

nakanonis Matsumura, 1910a: 109 (Dictyophora [sic])

okinawensis Matsumura, 1906: 31, pl. 1, fig. 7 (Dictyophora [sic])
Lectotype ♂ , by present designation – (1) 556 Japan Yaeyama Matsumura.
Paralectotype 1♀ , by present designation – (1) VIII 1905 Okinawa [underside] Kuroiwa [in Chinese]; (2) [Matsumura’s handwriting] Dictyophora okinawensis n. sp.
Paralectotype 1♀ , by present designation – (1) Japan Matsumura 556 Yaeyama.

tengi Matsumura, 1905: 56, pl. 21, fig. 6 (Dictyophora [sic])
Lectotype ♀ , by present designation – (1) Takasago [in Japanese] 11/6 Japan Matsumura; (2)


This species was not included by Metcalf (1946) in his catalogue of world Dictyopharidae.

*watanabei* Matsumura, 1910a: 105 (*Tenguna*)

Lectotype ♀, by present designation – (1) 8/7 Hoppo; (2) [Matsumura’s handwriting] *D. watanabei* n. sp.; (3) [red label] Type Matsumura.

Paratype 1 ♀, by present designation – (1) Formosa Matsumura [underside] 8/VIII 1906 Hoppo.


Paratype 1 ♀, by present designation – (1) Formosa Matsumura [underside] Koannai 29/VII ‘06.

**Family Fulgoridae**

*watanabei* Matsumura, 1913: 54, pl. 8, fig. 1 (*Fulgora (Hotinus)*) [Pyrops]*

Lectotype ♀, by present designation – (1) Formosa Matsumura [underside] Hoppo 1st VII ‘07; (2) [Matsumura’s handwriting] *Hotinus watanabei* det. Matsumura; (3) [red label] Type Matsumura; (4) [Matsumura’s handwriting] *Hotinus watanabei* Mats.

Paratype 1 ♀, by present designation – (1) Hoppo.


**Family Issidae**

*bizonatus* Matsumura, 1916: 96 (*Hemisphaerius*) [Gergithus]


Paratype 1 ♂, by present designation – (1) Formosa Matsumura [underside] 20/VII 1906 Shoka.

Paratypes 3 ♂, by present designation – (1) 23/VII 1906 Shinsha.


Hori (1969: 57) synonymised this species with *Gergithus bistriatus* (Schumacher).

*coccineus* Matsumura, 1916: 95 (*Hemisphaerius*)

Lectotype ♀, by present designation – (1) Formosa Matsumura [underside] 20/VII 1906 Shoka; (2) Type Matsumura [underside, Matsumura’s handwriting] *Hemisphaerius coccineus* n.; (3) [red label] type *Hemisphaerius coccineus* MATSUMURA.

Paratype 1 ♂, by present designation – same data as lectotype.

Paratype 1 ♂, by present designation – (1) Formosa Matsumura [underside] 7/VII 1906 Koshun; (2) Type Matsumura [underside, Matsumura’s handwriting] *Hemisp. coccineus*; (3) [red label] type *Hemisphaerius coccineus* MATSUMURA.
Paralectotype 1 ♂, by present designation — (1) Formosa Matsumura [underside] 9/VII 1906 Koshun; (2) Type Matsumura [underside, Matsumura’s handwriting] *Hem. coccineus* Mats.; (3) [red label] type *Hemisphaerius coccineus* MATSUMURA.

Paralectotype 1 ♀, by present designation — (1) Formosa Matsumura [underside] Rinkiho [in Japanese] 28/IV’07; (2) Type Matsumura [underside, Matsumura’s handwriting] *Hem. coccineus* n.; (3) [red label] type *Hemisphaerius coccineus* MATSUMURA.

Hori (1969: 61) synonymised this species with *Hemisphaerius formosus* Melichar.

**formosana** Matsumura, 1913: 56, pl. 8, fig. 4 (*Tonga*)


Paralectotypes 2 ♂, 1 ♀, by present designation — same data as lectotype.

Paralectotype 1 ♀, by present designation — (1) Koshun 7/4’1906.


Paralectotype 1 ♀, by present designation — (1) 7/5 Koshun [in Chinese].

**formosanum** Matsumura, 1916: 112 (*Sarima*)


**harimensis** Matsumura, 1913: 61, pl. 8, fig. 11 (*Issus*)


Paralectotype 1 ♀, by present designation — (1) 6/29.

Paralectotype 1 ♀, by present designation — (1) Formosa Matsumura [underside] Horisha [in Japanese] 30/IV’07; (2) [Matsumura’s handwriting] *Gergithus harishanus* M.; (3) [red label] Type Matsumura.

Paralectotypes 2 ♀, by present designation — (1) 30/IV’07.

Paralectotype 1 ♀, by present designation — (1) 30/IV’07.


**hokutonis** Matsumura, 1916: 90 (*Conocaliscelis*)

Lectotype ♂, by present designation — (1) Formosa Matsumura [underside] 31/VII 1906 Hokuto; (2) Type Matsumura [underside, Matsumura’s handwriting] *Conocaliscelis hokutonis*; (3) [red label] type *Conocaliscelis hokutonis* MATSUMURA.

Paralectotype 1 ♀, by present designation — (1) 31/VII 1906 Hokuto; (2) Type Matsumura [underside, Matsumura’s handwriting] *Conocaliscelis hokutonis* n.; (3) [red label] type *Conocaliscelis hokutonis* MATSUMURA.

**horishanus** Matsumura, 1916: 102 (*Gergithus*)


*iguchii* [sic, lap. cal.] (= *iguchi*) Matsumura, 1916: 98 (*Gergithus* [*Ishiharanus*])

Holotype ♀ — (1) Japan Matsumura [underside] Shuhei Iguchi [in Chinese] 4/8 30; (2) Type Matsumura [underside, Matsumura’s handwriting, illegible]; (3) [Matsumura’s handwriting] *H. iguchi* M.; (4) [red label] Type Matsumura; (5) Iguchimaruunka [in Japanese].

*karaiftonis* Matsumura, 1911b: 31 (*Ommatidiotus*)


Paralectotype 1 ♀, by present designation — same data as lectotype.

*koreanus* Matsumura, 1915: 176, pl. 1, fig. 2 [not “fig. 1” as in the original description] (*Ommatidiotus*)


*koshunensis* Matsumura, 1916: 91 (*Conocaliscelis*)

Lectotype ♀, by present designation — (1) Formosa Matsumura [underside] 7/VII 1906 Koshun; (2) Type Matsumura [underside, Matsumura’s handwriting] *Conocaliscelis koshunensis*; (3) [red label] type *Conocaliscelis koshunensis* MATSUMURA.

Paralectotype 1 ♀, by present designation — (1) Formosa Matsumura [underside] 7/VII 1906 Koshun; (2) Type Matsumura; (3) [red label] type *Conocaliscelis koshunensis* MATSUMURA.

Paralectotype 1 ♀, by present designation — (1) Formosa Matsumura [underside] 3/VII 1906 Shirin; (2) Type Matsumura; (3) [red label] type *Conocaliscelis koshunensis* MATSUMURA.

Paralectotypes 1 ♀, 2 ♀, by present designation — (1) Formosa Matsumura [underside] 2/VII 1906 Koshun.


Hori (1969: 55) synonymised this species with *Gergithus affinis* Schumacher.

*koshunense* Matsumura, 1916: 113 (*Sarima*)


Paralectotype 1 ♂, by present designation — same data as lectotype.

Paralectotype 1 ♀, by present designation — (1) Formosa Matsumura [underside] 6/VII 1906 Koshun; (2) Type Matsumura [underside, Matsumura’s handwriting] *koshunensis*; (3) [red label] Type Matsumura.


Koshun.

kuroiwae Matsumura, 1916: 106 (Okissus)

kuyanianum Matsumura, 1916: 112 (Sarima)
Lectotype 6', by present designation – (1) Formosa Matsumura [underside] Kuyaniya [in Japanese] 25/4 '07; (2) Type Matsumura [underside, Matsumura’s handwriting] Sarima kuyanianum; (3) [red label] type Sarima kuyanianum MATSUMURA.
Paralectotype 1♂, by present designation – (1) Taitung [in Chinese] 8 VI 1914 Col. I. Nitobe; (2) 6; (3) Type Matsumura [underside] [Matsumura’s handwriting] Sarima kuyanianum n.; (4) [red label] type Sarima kuyanianum MATSUMURA.

Hori (1969: 56) synonymised this species with Gergithus longulus Schumacher.

nigritus Matsumura, 1911b: 32 (Ommatidiotus)
Lectotype ♂, by present designation – (1) Sakhalin, 30.IX.1905 Yoichiro Ikuma [all in Chinese]; (2) [Matsumura’s handwriting] Ommatidiotus nigritus n. sp.
This species was described from four female specimens. We have found only one female syntype.

nitobei Matsumura, 1916: 104 (Daruma) [Darumara]
Lectotype ♂, by present designation – (1) Arisan 1912.10.20 Nitobe [underside] ♂; (2) Type Matsumura [underside, Matsumura’s handwriting] Daruma Nitobei; (3) [red label] type Daruma nitobei MATSUMURA.
Paralectotype 1 ♀, by present designation – (1) Formosa Matsumura [underside] 23/VII 1906 Shinsha ♂; (2) Type Matsumura [underside, Matsumura’s handwriting] Issanop[sic] Nitobei; (3) [red label] type Daruma nitobei MATSUMURA.
Paralectotypes 2 ♀, by present designation – (1) Formosa Matsumura [underside] Horisha [in Japanese] 30/IV '07 ♀; (2) Type Matsumura [underside, Matsumura’s handwriting] Daruma Nitobei; (3) [red label] type Daruma nitobei MATSUMURA.

reticulatus Matsumura, 1916: 101 (Gergithus)
Lectotype ♂, by present designation – (1) Formosa Matsumura [underside] 7/VII 1906 Koshun; (2) Type Matsumura [underside] Gergithus reticulatus; (3) [red label] Type Matsumura.
Paralectotype 1♂, by present designation – (1) Formosa Matsumura [underside] 20/VII 1906 Shoka.
Paralectotypes 2 ♂, by present designation – (1) Formosa Matsumura [underside] Koshun 7/7–06.
Paralectotype 1 ♂, by present designation – (1) Formosa Matsumura.
rinkihonis Matsumura, 1916: 114 (Sarima)

Lectotype ♂, by present designation – (1) Formosa Matsumura [underside] Shinsha 29/4 '07; (2) Type Matsumura [underside, Matsumura's handwriting] Sarima rinkihonis n.; (3) [red label] type Sarima rinkihonis MATSUMURA.

Paralectotype 1 ♂, by present designation – (1) Formosa Matsumura [underside] Rinkiho [in Japanese] 26/IV 07; (2) Type Matsumura [underside, Matsumura's handwriting] Sarima rinkihonis n.; (3) [red label] type Sarima rinkihonis MATSUMURA.

rubricans Matsumura, 1916: 112 (Sarima) [Eusarima]

Holotype ♀ – (1) 7/4 Koshun [in Chinese] Formosa Matsumura; (2) Type Matsumura [underside, Matsumura's handwriting] rubricans; (3) [red label] Holotype Sarima rubricans MATSUMURA.

Chan & Yang (1994: 146) transferred rubricans from Sarima to Eusarima.

satsumana Matsumura, 1916: 111 (Sarima)

Lectotype ♀ [abdomen missing], by present designation – (1) Kagoshima [in Japanese] 7/10; (2) Type Matsumura [underside, Matsumura's handwriting] satsumae; (3) [red label] Type Matsumura.


satsumensis Matsumura, 1916: 101 (Gergithus)

Lectotype ♂, by present designation – (1) Kagoshima [in Japanese] 7/10; (2) Type Matsumura [underside, Matsumura's handwriting] Gergithus satsumensis n.; (3) [red label] type Gergithus satsumensis MATSUMURA.

Paralectotype 1 ♂, by present designation – (1) 10/VII 1903 Kagoshima.

Paralectotype 1 ♂, by present designation – (1) Okinawa Kuroiwa; (2) 224.

Paralectotype 1 ♀, by present designation – (1) Okinawa Kuroiwa; (2) 225; (3) Satumamarunka [in Japanese].

taimokko Matsumura, 1916: 115 (Sarimodes)

Holotype ♂ – (1) Formosa Matsumura [underside] Taimokko [in Chinese]; (2) Type Matsumura [underside, Matsumura's handwriting] Sarimodes taimoko [sic]; (3) [red label] Type Matsumura.

Paralectotype 1 ♂, by present designation – (1) Formosa Matsumura [underside] Taimokko [in Chinese]; (2) Type Matsumura [underside, Matsumura's handwriting] Sarimodes taimoko [sic]; (3) [red label] Type Matsumura.


tappanum Matsumura, 1916: 114 (Sarima)

Holotype ♂ – (1) Formosa Matsumura [underside] Tappan 24/IV '07; (2) Type Matsumura [underside] Sarima tappana n.; (3) [red label] Holotype Sarima tappana MATSUMURA.

tappanus Matsumura, 1916: 96 (Hemisphaerius) [Epyhemisphaerius]


Paralectotype 1 ♂, by present designation – (1) Formosa Matsumura [underside] Horisha [in Japanese] 21/V '07; (2) Type Matsumura [underside, Matsumura's handwriting] Hemisp. tappanus n.; (3) [red label] type Hemisphaerius tappanus MATSUMURA.

Chan & Yang (1994) transferred tappanus from Hemisphaerius to Epyhemisphaerius.

terauchii Matsumura, 1915: 176, pl. 1, fig. 3 [not fig. 2 as in the original description] (Caloseelis)

Holotype ♀ – (1) Korea, Seoul, Kongo Ikuma [all in Chinese], [underside] late [in Chinese/X 20 1914]; (2) Type Matsumura; (3) [Matsumura's handwriting] Caloseelis terauchii n.; (4) [red label] Type Matsumura.
tessellatus Matsumura, 1916: 100 (Gergithus)

Paralectotypes 3 ♀, by present designation – same data as lectotype.
Paralectotypes 2 ♂, 1 ♀, by present designation – same data as lectotype except 8/VII 1906.
Paralectotype 1 ♀, by present designation – (1) Formosa Matsumura [underside] 7/VII 1906 Koshun; (2) Type Matsumura [underside, Matsumura's handwriting] Gergithus tessellatus; (3) [red label] Type Matsumura.

yayeyamana Matsumura, 1916: 108 (Tonga)

Lectotype ♀, by present designation – (1) Japan Matsum 5 5 7 [underside] Yayeyama [in Chinese] V/’09; (2) Type Matsumura [underside, Matsumura’s handwriting] Tonga yayeyamana; (3) [red label] Type Matsumura.

yohenai Matsumura, 1936: 82 (Sarima)

Holotype ♂ [in very poor condition, only wings and a fragment of thrax remain] – (1) SHURI Okinawa Ken 1935,3,17 Chiro, Yohena; (2) [Matsumura’s handwriting] Sarima yohenai n.; (3) [pink label] [no data.]
Hori (1970: 81) synonymised this species with S. satsumana Matsumura.

Family Nogodinidae

subfasciata var. kotoshonis Matsumura, 1938: 150 (Mindura)

Lectotype ♂, by present designation – (1) 30.VI; (2) Formosa Matsumura [underside] Kotosho [in Japanese]; (3) [Matsumura’s handwriting] subfasciata ♀ kotoshonis n.; (4) [pink label] [no data.]

kotoshonis Matsumura, 1938: 150 (Nagodina [sic])

Holotype ♀ – (1) 26: (2) Formosa Matsumura Kano [in Japanese] Kotosho [in Japanese]; (3) [Matsumura’s handwriting] Nagodina kotoshonis M.; (4) [red label] [no data].

Family Flatidae

kotoshonis Matsumura, 1940b: 48 (Atracis)


maritima Matsumura, 1900: 212 (Mimophantia)

Paralectotypes 2 ♂, 4 ♀, by present designation – same data as lectotype.
Paralectotypes 2 ♀, by present designation – (1) [underside] 7/19; (2) Japan DR. MATSUMURA; (3) Mimophantia.
Paralectotype 1 ♂, by present designation – (1) Japan DR. MATSUMURA; (2)
maritima.

Family Tropiduchidae

bizonata Matsumura, 1914b: 265 (Tambinia)
Lectotype ♂, by present designation — (1) Kotoshio [illegible Japanese characters] 30 T. Shiraki; (2) No. 1031; (3) [Matsumura’s handwriting] Tambinia bizonata M.; (4) [red label] Type Matsumura.

boninensis Matsumura, 1914b: 263 (Mesepora) [Paricana]
Lectotype ♀, by present designation — (1) 10 VIII 1905 Ogasawara Matsumura; (2) [Matsumura’s handwriting] Betaepora boninensis det. Matsumura; (3) [red label] Type Matsumura.
Paralectotype 1 ♀, by present designation — same data as lectotype.
Paralectotypes 2 ♂, by present designation — (1) 20 VIII 1905 Ogasawara Matsumura.


hopponis Matsumura, 1914b: 268, figs. 3a–e (Sogana) Lectotype ♂, by present designation — (1) Formosa Matsumura [underside] Shoka 7/20–06.
Paralectotype 1 ♀, by present designation — (1) 8/VIII Hoppo; (2) [Matsumura’s handwriting] Sogana hopponis n. sp.; (3) [red label] Type Matsumura.
Paralectotypes 2 ♀, by present designation — (1) Formosa Matsumura [underside] 20/VII 1906 Shoka.

issiformis Matsumura, 1914b: 263 (Mesepora) [Eodryas] Lectotype ♂, by present designation — (1) 20 VIII 1905 Ogasawara Matsumura; (2) [Matsumura’s handwriting] Mesepora [sic] issiformis n. sp.
Paralectotype 1 ♀, by present designation — same data as lectotype.
Paralectotypes 4 ♂, 8 ♀, by present designation — (1) 20 VIII 1905 Ogasawara Matsumura.

ogasawarana Matsumura, 1914b: 263 (Mesepora) [Eodryas] Lectotype ♂, paralectotype 1 ♀, by present designation — (1) 20 VIII 1905 Ogasawara
Matsumura; (2) [Matsumura's handwriting] *Mesoepora* [sic] *ogasawarana* n. sp.
Paralectotypes 5♂, 6♀, 1 ex. [abdomen missing], by present designation – (1) 20VIII1905 Ogasawara Matsumura.

**Onukii** Matsumura, 1914b: 262, fig. 1 (*Mesoepora*)
Paralectotype 1 ♂, by present designation – same data as lectotype.
Paralectotype 1 ♀, by present designation – (1) Formosa Matsumura [underside] Koshun 7/7–06.
Paralectotype 1 ♀, by present designation – (1) Formosa Matsumura [underside] Koshun 7/7–06.
Paralectotypes 1 ♂, 1 ♀, by present designation – (1) Formosa Matsumura [underside] Koshun 7–7–06.
Paralectotypes 2 ♀, by present designation – (1) Koshun 7/3 1906.

**Quadrivittata** Matsumura, 1913: 59, pl. 8, fig. 8 (*Platyepora*)
Paralectotypes 1 ♂, 1 ♀, by present designation – (1) Formosa Matsumura [underside] 30/VII 1906 Hokuto.
Paralectotype 1 ♀, by present designation – (1) Kotosho 16/V07; (2) Formosa Matsumura.
Paralectotype 1 ♀, by present designation – (1) Kumamoto H. Kawamura [underside] IX.23 1907.
Paralectotypes 1 ♂, 1 ♀, by present designation – (1) 20/IX 1906 Moji.
Paralectotype 1 ♂, by present designation – (1) Kumamoto H. Kawamura [underside] IX.2 1907.
Matsumura (1914b: 264) synonymised this species with *Ossoides lineatus* Bierman.

**Suturalis** Matsumura, 1914b: 265 (*Taxilia*) [Kallitaxilia]
Lectotype ♂, by present designation – (1) 10 VIII 1905 Ogasawara Matsumura; (2) [Matsumura's handwriting] *Tambinia suturalis* n. sp.; (3) [red label] Type Matsumura.
Paralectotypes 2 ♂, by present designation – same data as lectotype.
Paralectotypes 1 ♂, 1 ♀, by present designation – (1) 10 VIII 1905 Ogasawara Matsumura.

**Vittata** Matsumura, 1914b: 266, figs. 2a–d (*Catullia*)
Lectotype ♀, by present designation – (1) Kumamoto H. Kawamura [underside] IX.23 1907; (2) 2; (3) [Matsumura's handwriting] *Chodon vittata* n.; (4) [red label] Type Matsumura.

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ACKNOWLEDGEMENTS

Dr. Liang's travel to the Hokkaido University was funded by the International Exchange Fund, the National Natural Science Foundation of China grant No. 19710141076. Dr. Suwa and his family kindly provided the living expenses for Liang in Sapporo. We thank the colleagues at the Laboratory of the Systematic Entomology, Faculty of Agriculture, Hokkaido University, for access to the Matsumura collection, generous support, answers to numerous questions, and bibliographical help. This work was partially supported by the National Natural Science Foundation of China grant No. 39470111 awarded to the senior author.

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