

# Type specimens and identity of the mirid species described by Japanese authors in 1906-1917 (Heteroptera: Miridae)

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Of the 16 nominal species of Miridae described by the Japanese authors in 1906-1917, 13 are represented by type specimens in the collection of S. Matsumura, Entomological Institute of the Hokkaido University. Lectotypes of 11 species are designated. The following new combinations and new synonymies are established: *Orthops udonis* (Matsumura, 1917), comb. n. (*Lygus*) = *O. sachalinus* (Carvalho, 1959), syn. n.; *Tingitotopsis oryzae* (Matsumura, 1910), comb. n. (*Lygus*) = *T. dromedarius* Poppius, 1915, syn. n.; *Orthotylus flavosparsus* (C.R. Sahlberg, 1841) = *Tuponia guttula* Matsumura, 1917 (synonymy confirmed) = *O. nigropilosus* Lindberg, 1934, syn. n.; *Phylus stundfuki* Kulik, 1973 = *Heterocordylus flavipes* (Nitobe, 1906), nom. praeocc., syn. n..

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## Introduction

Sixteen new species of Miridae were described from Japan, Sakhalin and Taiwan by Japanese authors in the first half of XX century (Nitobe, 1906; Matsumura, 1910, 1911b, 1913, 1917; Shiraki, 1913), including one species (Nawa, 1910) for which an available name was given by a German author (Schumacher, 1917). Most of these species were described by the eminent Japanese entomologist S. Matsumura. In 1996 S. Yasunaga has had opportunities to examine Matsumura's collection in Systematic Entomology, Faculty of Agriculture, Hokkaido University, Sapporo (abbreviated to SEHU in the later text; for characteristic of this collection, see Tomokuni, 1994). Some observations in Matsumura's collection were made earlier and partly published by S. Miyamoto. I.M. Kerzhner examined types of some taxa from China and Russia related to this study.

This paper contains a review of species, lectotype designations and notes on taxonomy of some poorly known species. The following are the current names of some localities of Sakhalin and Taiwan cited in S. Matsumura's works: Chipsani = Ozerskiy; Galkinowraskoe

= Dolinsk; Gunkawa = about 10 km NW of Yuzhno-Sakhalinsk; Otani = Sokol; Solowiyofka = Solov'evka; Taichu = Taichung; Tonnaitcha = Tunaycha Lake; Toyohara = Yuzhno-Sakhalinsk. The current names of two localities in Taiwan (Kagi, or Kaji, and Rinkihō) are unknown to us.

## Type material

The species are listed in alphabetical order of their original names. All the type material discussed in this section is kept in SEHU. Lectotypes (designated in this paper) and paralectotypes are provided with respective type labels by Yasunaga; these labels are not cited in the following text. Inscriptions in Japanese characters are transliterated and cited in square brackets [ ].

*Atractotomus rubrolineatus* Matsumura, 1913: 248, 249, pl. 15, fig. 27; 1930: 196 (Jap.), 38 (Engl.), pl. 16, fig. 27; 1931: 1217, fig. Described from 2 females collected by Matsumura in Honshu. The type locality was indicated as Harima in the English text but Kyoto in the Japanese text. Only one syntype is found in SEHU. *Lectotype*: ♀, 07.