

Designation of type-species of 13 Stick-Insect genera described by J. Redtenbacher (Insecta: Orthoptera: Phasmatodea)

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Abstract

Type-species of several genera of the insect order Phasmatodea, described by Redtenbacher, are designated. The genera are: *Agrostia*, *Anisacantha*, *Antongilia*, *Brizoides*, *Citrina*, *Euclis*, *Euphasma*, *Hypocyrtus*, *Mirophasma*, *Neophasma*, *Paraphasma*, *Paraprisopus*, *Perliodes*.

Key words: Phasmatodea, genera, type-species, Neotropics, Redtenbacher.

Zusammenfassung

Typus-Arten einiger von Redtenbacher beschriebener Genera der Insektenordnung Phasmatodea werden designiert. Die Genera sind: *Agrostia*, *Anisacantha*, *Antongilia*, *Brizoides*, *Citrina*, *Euclis*, *Euphasma*, *Hypocyrtus*, *Mirophasma*, *Neophasma*, *Paraphasma*, *Paraprisopus*, *Perliodes*.

Introduction

The insect order Phasmatodea is still poorly researched, even so it includes several of the largest known insects. More than 200 species are cultured by enthusiasts, but the systematics and taxonomy of this order is still in need of updating. The author started a suprageneric revision of the New-World genera, of which the first part, dealing with the subfamily Heteronemiinae, is in press. The next part (in progress) shall revise the Pseudophasmatidae, which includes mainly winged species from South America.

In the famous monograph of Karl BRUNNER v. WATTENWYL and Josef REDTENBACHER, published in three parts in 1906, 1907, and 1908, the latter author erected many new genera in this order, but he did not designate type-species. Many have been designated subsequently, but some genera are still without a designated type-species.

The following designations aim to support further works in this order. The type-species selected are as far as possible based on species where both sexes are known and figured by Redtenbacher in the monograph. All are labelled as having been examined by Redtenbacher; many of them are present in more than one museum collection.

The majority of the types of the mentioned species is deposited in the Naturhistorisches Museum, Vienna, and listed by BROCK (1998). Only material examined by the author is listed.

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***Agrostia* REDTENBACHER, 1906: 110.**

Type-species: *Agrostia bipunctata* REDTENBACHER, 1906: 110, pl. 4: 15, **by present designation.**

Material examined: Syntypes of *Agrostia bipunctata*: 1 ♂, Alto Amazonas, Coary, Staudinger [Naturhistorisches Museum, Vienna]; 1 ♂, Paraguay [Museo Nacional de Ciencias Naturales, Madrid, Spain].

***Anisacantha* REDTENBACHER, 1906: 162.**

Type-species: *Anisacantha difformis* REDTENBACHER, 1906: 163, pl. 6: 6-7, **by present designation.**

Material examined: Syntypes of *Anisacantha difformis*: 1 ♂, 1 ♀, Antongil, Madagasc., Mocqueris leg. [Naturhistorisches Museum, Vienna]; 1 ♂, Antongil, Madag. [Zoologisches Museum der Universität, Hamburg]; 1 ♀, no label [Zoologisches Museum der Universität, Hamburg].

Further type-material is listed by BROCK (1998: 25).

***Antongilia* REDTENBACHER, 1906: 24.**

Type-species: *Antongilia squamigera* REDTENBACHER, 1906: 27, pl. 2: 12-13, **by present designation.**

Material examined: Syntypes of *Antongilia squamigera*: 2 ♂♂, 1 ♀, Antongil, Madagasc., Mocqueris leg. [Naturhistorisches Museum, Vienna].

Further type-material is listed by BROCK (1998: 60).

***Brizoides* REDTENBACHER, 1906: 112.**

Type-species: *Brizoides nigricornis* REDTENBACHER, 1906: 112, **by present designation.**

Described by Redtenbacher in both sexes.

Material examined: Syntypes of *Brizoides nigricornis*: 1 ♂, 1 ♀, Chiriqui, (Panama), Staudinger [Naturhistorisches Museum, Vienna].

Further type-material is listed by BROCK (1998: 45).

***Citrina* REDTENBACHER, 1906: 109.**

Type-species: *Phasma prasinum* AUDINET-SERVILLE, 1839: 272, renamed as *Citrina servillei* **nom.nov.**, **by present designation** (see below).

Figured by REDTENBACHER (1906: 110, pl. 4: 14).

The type(s) of this species, could not be traced and seem(s) to be lost. The type locality is not known ("patrie inconnue"). *Phasma prasinum* has been selected as the type-species, because the other species included by Redtenbacher, *Phasma venilia* WESTWOOD, 1859, was not examined by Redtenbacher.

As *Phasma prasinum* BURMEISTER, 1838, with which the species *Necroscia roseipennis* AUDINET-SERVILLE, 1839: 272, was synonymized by REDTENBACHER (1908: 526), was described before AUDINET-SERVILLES species, the one of the latter author must be re-named: *Citrina servillei* **nom.nov.**

***Eucles* REDTENBACHER, 1906: 101.**

Type-species: *Eucles imperialis* REDTENBACHER, 1906: 101, **by present designation.**

Described by REDTENBACHER in both sexes.

Material examined: Syntypes of *Eucles imperialis*: 1 ♂, 1 ♀, Peru, Iquitos, Staudinger [Naturhistorisches Museum, Vienna].

***Euphasma* REDTENBACHER, 1906: 125.**

Type-species: *Euphasma bicornis* REDTENBACHER, 1906: 126, **by present designation.**

Described by REDTENBACHER in both sexes.

Syntypes of *Euphasma bicornis*: 1 ♀, no locality [Naturhistorisches Museum, Vienna]; 1 ♂, 1 ♀, Amer. mer. [Staatliches Museum für Tierkunde, Dresden]; 1 ♀, 832; *Salpingus* Westw.? Columb. Somllr.; *Euphasma bicornis* Redt. Brunner det. [Zoologisches Museum der Humboldt-Universität, Berlin].

***Hypocyrtus* REDTENBACHER, 1908: 355.**

Type-species: *Hypocyrtus substrumosus* REDTENBACHER, 1908: 355, **by present designation.**

Described by REDTENBACHER in both sexes.

Material examined: Syntypes of *Hypocyrtus substrumosus*: 1 ♀, Mexico, Jalapa, Mus. Hamburg [Naturhistorisches Museum, Vienna]; 1 ♂, Jalapa, Salas & Morales 1882 [Zoologisches Museum der Universität, Hamburg].

Further type-material is listed by BROCK (1998: 61).

***Miropasma* REDTENBACHER, 1906: 64.**

Type-species: *Miropasma cirsium* REDTENBACHER, 1906: 64, **by present designation.**

Material examined: Syntypes of *Miropasma cirsium*: 1 ♀, Columb. Steinheil [Naturhistorisches Museum, Vienna]; 1 ♀ nymph, Type, Columbian. O. Thieme; Historages; 135; *Miropasma cirsium* Redt. Brunner det. [Zoologisches Museum der Humboldt-Universität, Berlin].

***Neophasma* REDTENBACHER, 1906: 124.**

Type-species: *Neophasma subapterum* REDTENBACHER, 1906: 125, **by present designation.**

Figured by REDTENBACHER in both sexes (1906: 125, pl. 5: 3, 4).

Material examined: Syntypes of *Neophasma subapterum*: 1 ♂, 1 ♀, Merida, Boucard [Naturhistorisches Museum, Vienna].

***Paraphasma* REDTENBACHER, 1906: 114.**

Type-species: *Paraphasma marginale* REDTENBACHER, 1906: 115, **by present designation.**

Present in most of the collections. A description of the egg by the author is in progress.

Material examined: Lectotype of *Paraphasma marginale*, designated by BROCK (1998: 41): 1 ♂, Pto. 14 de Mayo, G. Boggani, I.1897 [Museo Civico di Storia Naturale "Giacomo Doria", Genova];

Paralectotypes: 1 ♂, 2 ♀♀: as lectotype [Museo Civico di Storia Naturale "Giacomo Doria", Genova].

Further type-material listed by BROCK (1998: 41).

***Paraprisopus* REDTENBACHER, 1906: 156.**

Type-species: *Paraprisopus foliculatus* REDTENBACHER, 1906: 156, by present designation.

Material examined: Holotype of *Paraprisopus foliculatus*: 1 ♀, Ida Pfeiffer, Guayaquil, 1855 [Naturhistorisches Museum, Vienna].

This species is selected even so Redtenbacher figures *Paraprisopus merismus* (WESTWOOD, 1859), because he has not seen Westwood's specimens.

***Perliodes* REDTENBACHER, 1906: 136.**

Type-species: *Perliodes grisescens* REDTENBACHER, 1906: 137, by present designation.

Described by REDTENBACHER from both sexes.

Material examined: Syntypes of *Perliodes grisescens*: 1 ♂, Paramaribo, Michaelis, Vindobon [Naturhistorisches Museum, Vienna]; 2 ♂♂, 1 ♀, Brasil [Staatliches Museum für Tierkunde, Dresden].

Further type-material listed by BROCK (1998: 32).

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