



## Revision of the Neotropical moth genera *Mallogeta* Butler and *Erruca* Walker, revalidated (Noctuidae, Arctiinae, Arctiini, Euchromiina)

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## Abstract

*Mallodeta* Butler and *Erruca* Walker, **revalidated**, are redescribed and revised. *Mallodeta* henceforth includes only its type-species, *Glaucopis (Lycorea) clavata* Walker, and *Erruca* is resurrected with seven species: *E. deyrolii* Walker (type-species), *E. consors* (Walker), **new combination**, *E. erythrarchos* (Walker), **new combination**, *E. cardinalis* (Hampson), **new combination**, *E. hanga* (Herrich-Schäffer), **new combination**, *E. cruenta* (Perty), **new combination** and *E. sanguipuncta* (Druce), **new combination**. Six **new synonyms** are established, four specific and two generic (junior synonyms in parentheses): *Zygaena capistrata* Fabricius (= *Mallodeta cubana* Gaede), *Glaucopis (Lycorea) clavata* Walker (= *M. simplex* Rothschild), *Erruca deyrolii* Walker (= *Laemocharis aecyra* Herrich-Schäffer and *Glaucopis (Hyda) sortita* Walker), and *Erruca* Walker (= *Aristodaema* Wallengren and *Rezia* Kirby). **Lectotypes** are designated to the following species: *Erruca deyrolii* Walker, *Laemocharis deyrollei* Herrich-Schäffer, *Laemocharis hanga* Herrich-Schäffer, *Laemocharis aecyra* Herrich-Schäffer, *Laemocharis norma* Herrich-Schäffer, *Cosmosoma cardinalis* Hampson and *Mallodeta sanguipuncta* Druce. Illustrations of adults and male and female genitalia of *Mallodeta* and *Erruca* are provided, as well as a key to the species of the latter.

**Key words:** taxonomy, *Cosmosoma*, synonyms, lectotypes, *Phoenicoprocta*

## Resumo

*Mallodeta* Butler e *Erruca* Walker, **revalidado**, são redescritos e revisados. *Mallodeta* passa a incluir somente sua espécie-tipo, *Glaucopis (Lycorea) clavata* Walker e *Erruca* é revalidado com sete espécies: *E. deyrolii* Walker (espécie-tipo), *E. consors* (Walker), **combinação nova**, *E. erythrarchos* (Walker), **combinação nova**, *E. cardinalis* (Hampson), **combinação nova**, *E. hanga* (Herrich-Schäffer), **combinação nova**, *E. cruenta* (Perty), **combinação nova**, e *E. sanguipuncta* (Druce), **combinação nova**. Seis **novos sinônimos** são estabelecidos, quatro específicos e dois genéricos (sinônimos juniores entre parênteses): *Zygaena capistrata* Fabricius (= *Mallodeta cubana* Gaede), *Glaucopis (Lycorea) clavata* Walker (= *M. simplex* Rothschild), *Erruca deyrolii* Walker (= *Laemocharis aecyra* Herrich-Schäffer e *Glaucopis (Hyda) sortita* Walker), e *Erruca* Walker (= *Aristodaema* Wallengren e *Rezia* Kirby). **Lectótipos** são aqui designados para as seguintes espécies: *Erruca deyrolii* Walker, *Laemocharis deyrollei* Herrich-Schäffer, *Laemocharis hanga* Herrich-Schäffer, *Laemocharis aecyra* Herrich-Schäffer, *Laemocharis norma* Herrich-Schäffer, *Cosmosoma cardinalis* Hampson e *Mallodeta sanguipuncta* Druce. Ilustrações dos adultos e das genitálias dos machos e fêmeas de *Mallodeta* e *Erruca* são apresentadas, bem como uma chave para as espécies deste último gênero.

**Palavras-chave:** taxonomia, *Cosmosoma*, sinónimas, lectótipos, *Phoenicoprocta*

## Introduction

Moths of the subfamily Arctiinae (Noctuidae) are brightly colored as adults, and the very setose larvae are commonly known as woolly bears. Arctiinae show interesting ecological characteristics, such as participation in mimicry rings, the ability to emit ultrasound during courtship and as a defense against insectivorous bats, and sequestration of plant secondary compounds that renders them unpalatable (Cardoso 1997; Weller *et al.* 1999).

Historically, the taxonomic rank of arctiines varied from family (*e.g.*, Hampson 1898) to subfamily (*e.g.*, Kiriakoff 1963). In the classification recently proposed by Lafontaine & Fibiger (2006), which is currently adopted (*e.g.*, Kristensen *et al.* 2007, Schmidt & Opler 2008), the former Arctiidae is considered a subfamily of Noctuidae. Although categories below family were downgraded to accommodate for the change in rank, characters justifying above-genera groups have not been re-evaluated by Lafontaine & Fibiger (2006).

Initially composed of two genera (Leach 1815), the configuration of Arctiinae (*sensu* Lafontaine & Fibiger 2006) changed drastically in the past two centuries. Two of its current subtribes, Euchromiina and Ctenuchina, were for a long time placed within Zygaenidae (*e.g.*, Herrich-Schäffer 1854), but Hampson (1898) considered them both part of Arctiinae (his Arctiades) under the name Syntomidae. Subsequent authors maintained these groups as sister taxa which together merited family rank, but family names varied. While Zerny (1912) and Draudt (1915) adopted Hampson's (1898) Syntomidae, names used by other authors include Amatidae (*e.g.*, Janse 1917), Euchromiidae (*e.g.*, Forbes 1939), and Ctenuchidae (*e.g.*, Kiriakoff