

Annotated catalogue of the Evanioidea (Hymenoptera) of the Malagasy subregion

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Abstract

Currently 19 species of the families Evaniidae and Gasteruptiidae (Evanioidea) are known from the Malagasy subregion. The family Evaniidae is represented by 15 species belonging to five genera (*Evania* FABRICIUS, 1775 – two species, *Micrevania* BENOIT, 1952 – eight species, *Parevania* KIEFFER, 1907 – two species, *Prosevania* KIEFFER, 1911 – one species, *Zeuxevania* KIEFFER, 1902 – two species) and the family Gasteruptiidae by four species of the genus *Gasteruption* LATREILLE, 1796.

Key words: Evaniidae, Gasteruptiidae, catalogue, Madagascar, Mauritius, Réunion, Rodrigues, Seychelles, Malagasy subregion.

Zusammenfassung

Zur Zeit sind 19 Arten der Evanioidea aus den Familien Evaniidae und Gasteruptiidae aus der madagassischen Unterregion bekannt. Die Familie Evaniidae ist mit 15 Arten aus fünf Gattungen (*Evania* FABRICIUS, 1775 – zwei Arten, *Micrevania* BENOIT, 1952 – acht Arten, *Parevania* KIEFFER, 1907 – zwei Arten, *Prosevania* KIEFFER, 1911 – eine Art, *Zeuxevania* KIEFFER, 1902 – zwei Arten) vertreten. Von der Familie Gasteruptiidae sind nur vier Arten der Gattung *Gasteruption* LATREILLE, 1796 nachgewiesen.

Introduction

In the Malagasy subregion the superfamily Evanioidea is represented by the families Evaniidae and Gasteruptiidae. There are no records of the Aulacidae.

Recently the family Evaniidae has been catalogued by DEANS (2005). He listed 14 species from the Malagasy Subregion. MADL & GANESHAN (2008) recorded one Oriental species from Mauritius and Rodrigues. Currently 15 species belonging to five genera are known from the Malagasy subregion. The transfer of some *Micrevania* species (in DEANS 2005) to the genus *Prosevania* in MADL & GANESHAN (2008) was caused by an error in the electronic file of M. Madl and is not of taxonomic importance.

The paper of PASTEELS (1956) is still the basis for the identification of the Gasteruptiidae of the whole Ethiopian region. MADL (2013) has catalogued the species of the Ethiopian region excluding the Malagasy subregion. To date only four species of the genus *Gasteruption* LATREILLE, 1796 in the subfamily Gasteruptiinae are recorded from Madagascar. The family is apparently absent from all other islands of the region.

Host records exist only for *Evania appendigaster* (LINNAEUS, 1758) (Evaniidae), which is known from the tropical and subtropical regions worldwide. Species of Evaniidae are parasitoids of cockroaches, and gasteruptionid wasps of solitary bees and wasps.

The catalogue is organized alphabetically and not taxonomically. Printing errors are marked (!). As the countries consist of several islands, they are cited under the „Regional distribution“ chapter name of the country followed by island or island groups, e.g., Mauritius: Mauritius, Rodrigues. The known records from Madagascar are listed province by province from north to south.

Annotated catalogue

Abbreviations:

biol.	biology	distr.	distribution	syn.	synonym
cat.	catalogue	fig. (figs.)	figure (figures)	tax.	taxonomy
descr.	description	pl.	plate	typ. gen.	typus generis

Family Evaniidae

Genus *Evania* FABRICIUS, 1775

Description: FABRICIUS 1775: 345.

Typus generis: *Sphex appendigaster* LINNAEUS, 1758.

Distribution: All zoogeographical regions.

Valid species in the region: 2.

Evania animensis SPINOLA, 1840 incertae sedis

Evania animensis: SPINOLA 1840: 245 (key), 247 (descr., Madagascar). SCHLETTERER 1886: 12 (descr., Madagascar), 41 (cat.). SCHLETTERER 1889: 145 (tax., descr., Madagascar). KIEFFER 1902: 3 (cat.). DE DALLA TORRE 1902: 1076 (cat.). BRADLEY 1908: 165 (key). SCHULZ 1912: 58 (tax.). KIEFFER 1912: 93 (tax., descr., Madagascar). DEANS 2005: 27 (tax., cat.).

Evania (Hyptia?) animensis SPINOLA, 1840: WESTWOOD 1844: 243 (tax., cat.).

Prosevania animensis (SPINOLA, 1840): MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: without locality (inclusion of a recent copal).

General distribution: Endemic.

Note: As the types are apparently lost (SCHULZ 1912: 58), the generic position is uncertain.

Evania appendigaster (LINNAEUS, 1758)

Evania appendigaster (LINNAEUS, 1758): MÜLLER 1775: 867 (Mauritius), pl. 26 (fig. 6). OLIVIER 1792: 452 (key), 453 (tax., descr., Mauritius). WESTWOOD 1844: 241 (tax., Mauritius). SCHLETTERER 1886: 6 (key), 10 (tax., descr. ♂♀, Madagascar, Mauritius), 41 (cat.), pl. 1 (figs. 1, 6, 9). SCHLETTERER 1889: 128 (key), 130 (key), 136 (tax., descr. ♂♀, Madagascar, Mauritius), pl. 6 (figs. 4b, 5a, 6a-c). BRANCSIK 1891: 160 (Madagascar). KIEFFER 1902: 3 (cat.), pl. 1 (fig. 3). DE DALLA TORRE 1902: 1076 (cat.). ENDERLEIN 1906: 228 (Madagascar). SCHULZ 1906: 134 (tax., Mauritius). CAMERON 1907: 85 (Seychelles). KIEFFER 1912: 2 (fig. 2), 7 (fig. 9, 10), 67 (key), 83 (tax., descr. ♂♀, Seychelles, Madagascar, Réunion, Mauritius), 84 (figs. 36, 37). BORDAGE 1914: 379 (tax., biol., Réunion), 380 (fig. 16). VON SCHULTHESS 1919: 50 (Madagascar). SCHULZ 1906: 134 (tax., Mauritius). BENOIT 1952: 167 (Madagascar, Mauritius), 178 (key). WILLIAMS 1958: 113 (cat. Mauritius). WILLIAMS 1974: 4 (cat. Mauritius). WILLIAMS 1980: 5 (cat. Mauri-

tius). GANESHAN & WILLIAMS 2005: 5 (cat. Mauritius). DEANS 2005: 27 (cat.). MADL & GANESHAN 2008: 827 (Réunion, Mauritius, Rodrigues), 829 (cat. Malagasy subregion).

Evania (Evania) appendigaster (LINNAEUS, 1758): HEDICKE 1939: 4 (cat.).

Evania Desjardinsi n. sp.: BLANCHARD 1840: 299 (descr. ♂, Mauritius). GUÉRIN-MÉNEVILLE 1843: 334 (syn. of *Evania laevigata* OLIVIER, 1792). BLANCHARD 1850: 299 (tax. descr. ♂, Mauritius).

Evania desjardinsii(!) BLANCHARD, 1840: WESTWOOD 1844: 242 (tax., cat.). WESTWOOD 1851: 214 (tax.). DESMAREST 1860: 172 (biol.). SCHLETTERER 1886: 14 (syn.). DE SAUSSURE 1890: pl. 15 (figs. 31, 31a, 31s, ♂). BORDAGE 1896a: 610 (biol., Réunion). BORDAGE 1896b: 473 (biol., Réunion). SCHULZ 1906: 134 (syn.). SCHULZ 1912: 57 (tax., Réunion, Mauritius). GERSTAECKER 1862: 520 (tax., Mauritius).

Evania laevigata LATREILLE, 1807(!): SMITH 1879: 534 (cat. Rodrigues), 538 (Mauritius, Rodrigues).

Evania laevigata OLIVIER, 1792: LATREILLE 1807: 251 (tax., Mauritius).

Hosts: *Periplaneta americana* (LINNAEUS, 1758) (Blattodea: Blattidae), *Leucaphaea maderae* (FABRICIUS, 1781) (Blattodea: Blaberidae).

Regional distribution: Seychelles: Inner Seychelles (Mahé, Silhouette), Coëtivy. – Madagascar: Prov. Antsiranana: Antsiranana, Montagne d'Ambre, Nosy Be – Prov. Toamasina: Andevoranto, Baie de l'Antongil, Toamasina – Prov. Fianarantsoa: Prefecture Mananjary – Prov. Toliara: Fort Dauphin – Réunion: Réunion. – Mauritius: Mauritius, Rodrigues.

General distribution: Known from all zoogeographical regions.

Genus *Micrevania* BENOIT, 1952

Description: BENOIT 1952: 173.

Typus generis: *Micrevania minuscula* BENOIT, 1952.

Distribution: Ethiopian region.

Valid species in the region: 8.

***Micrevania albicoxa* (VON SCHULTHESS, 1918)**

Evania albicoxa: VON SCHULTHESS 1918: 97 (descr. ♀, Madagascar), 98 (fig. 1). VON SCHULTHESS 1919: 50 (Madagascar).

Evania (Evania) albicoxa VON SCHULTHESS, 1918: HEDICKE 1939: 10 (cat.). BENOIT 1952: 167 (descr. ♂, Madagascar), 179 (key).

Micrevania albicoxa (VON SCHULTHESS, 1918): DEANS 2005: 70 (tax., cat.).

Regional distribution: Madagascar: Prov. Antsiranana: Antsiranana – Prov. Antananarivo: Ambohimanga, Antsirabe, Massif de l'Ankaratra – Prov. Toamasina: Andasibe (Perinet), Andekaleka (Rogez), Ivondro – Prov. Fianarantsoa: Fianarantsoa – Prov. Toliara: Bekily, Fort Dauphin, Ranomafana (leg. Seyrig).

General distribution: Endemic.

Note: *Micrevania albicoxa* is not mentioned by MADL & GANESHAN (2008: 829).

***Micrevania berlandi* (BENOIT, 1952)**

Evania berlandi: BENOIT 1952: 169 (descr. ♂♀, fig. 2, Madagascar), 178 (key).

Micrevania berlandi (BENOIT, 1952): DEANS 2005: 70 (tax., cat.).

Prosevania berlandi (BENOIT, 1952): MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Antsiranana: Montagne d'Ambre – Prov. Toamasina: Ivondro – Prov. Toliara: Ranomafana (leg. Seyrig).

General distribution: Endemic.

***Micrevania difficilis* BENOIT, 1952**

Micrevania difficilis: BENOIT 1952: 174 (descr. ♂, Madagascar). DEANS & HUBEN 2003: 868 (fig. 13), 873 (fig. 34). DEANS 2005: 70 (tax., cat.). MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Toamasina: Ivondro.

General distribution: Endemic.

***Micrevania ivondroensis* (BENOIT, 1952)**

Evania ivondroensis: BENOIT 1952: 167 (descr. ♂♀, Madagascar), 179 (key).

Micrevania ivondroensis (BENOIT, 1952): DEANS 2005: 70 (tax., cat.).

Prosevania ivondroensis (BENOIT, 1952): MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Toamasina: Ivondro.

General distribution: Endemic.

***Micrevania microphthalma* (BENOIT, 1952)**

Evania microphthalma: BENOIT 1952: 168 (descr. ♂, Madagascar), 179 (key).

Micrevania microphthalma (BENOIT, 1952): DEANS 2005: 70 (tax., cat.).

Prosevania microphthalma (BENOIT, 1952): MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Toamasina: Ivondro – Prov. Toliara: Ranomafana (leg. Seyrig).

General distribution: Endemic.

***Micrevania minuscula* BENOIT, 1952**

Micrevania minuscula: BENOIT 1952: 173 (typ. gen., descr. ♂, Madagascar). MUESEBECK & WALKLEY 1956: 369 (cat. typ. gen.). DEANS 2005: 70 (tax., cat.). MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Toliara: Bekily.

Endemic.

***Micrevania scintilla* (BENOIT, 1952)**

Evania scintilla: BENOIT 1952: 172 (descr. ♀, Madagascar), 178 (key).

Micrevania scintilla (BENOIT, 1952): DEANS 2005: 70 (tax., cat.).

Prosevania scintilla (BENOIT, 1952): MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Fianarantsoa: Fianarantsoa.

General distribution: Endemic.

***Micrevania seyrigi* (BENOIT, 1952)**

Evania seyrigi: BENOIT 1952: 170 (descr. ♂♀, Madagascar), 171 (fig. 3), 178 (key).

Micrevania seyrigi (BENOIT, 1952): DEANS 2005: 70 (tax., cat.).

Prosevania seyrigi (BENOIT, 1952): MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Toliara: Behara, Bekily.

General distribution: Endemic.

Genus *Parevania* KIEFFER, 1907

Description: KIEFFER 1907: 270.

Typus generis: *Parevania semirufa* KIEFFER, 1907.

Distribution: Ethiopian, Oriental and Palaeartic regions.

Valid species in the region: 2.

***Parevania madegassa* BENOIT, 1952**

Parevania madegassa: BENOIT 1952: 174 (descr. ♂♀, Madagascar). DEANS 2005: 74 (cat.). MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Parevania madegassa (!) BENOIT, 1952: CEBALLOS 1966: 203 (cat.).

Regional distribution: Madagascar: Prov. Toliara: Antanimora, Bekily.

General distribution: Endemic.

***Parevania plana* BENOIT, 1952**

Parevania plana: BENOIT 1952: 176 (descr. ♂, Madagascar). CEBALLOS 1966: 203 (cat.). DEANS 2005: 75 (cat.). MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Toliara: Antanimora.

General distribution: Endemic.

Genus *Prosevania* KIEFFER, 1911

Description: KIEFFER 1911: 157 (described as subgenus).

Typus generis: *Evania afra* KIEFFER, 1911.

Distribution: Ethiopian, Oriental and Palaeartic regions.

Valid species in the region: 1.

***Prosevania erythrosoma* (SCHLETTERER, 1886)**

Prosevania erythrosoma (SCHLETTERER, 1886): MADL & GANESHAN 2008: 828 (Mauritius, Rodrigues), 829 (cat. Malagasy subregion).

Regional distribution: Réunion: Réunion (see note), Mauritius: Mauritius, Rodrigues.

General distribution: Known from the Oriental region.

Note: I have seen good pictures of *Prosevania erythrosoma* from Réunion by Mr. Martiré.

Genus *Zeuxevania* KIEFFER, 1902

Description: KIEFFER 1902: 4.

Typus generis: *Evania dinarica* SCHLETTERER, 1889 (= *Zeuxevania splendidula* (COSTA, 1884)).

Distribution: Ethiopian and Palaeartic regions.

Valid species in the region: 2.

***Zeuxevania lamellata* BENOIT, 1952**

Zeuxevania lamellata: BENOIT 1952: 176 (descr. ♂, Madagascar). DEANS 2005: 108 (cat.). MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Toliara: Behara, Bekily.

General distribution: Endemic.

***Zeuxevania variabilis* BENOIT, 1952**

Zeuxevania variabilis: BENOIT 1952: 177 (descr. ♂♀, Madagascar). DEANS 2005: 110 (cat.). MADL & GANESHAN 2008: 829 (cat. Malagasy subregion).

Regional distribution: Madagascar: Prov. Antananarivo: Massif de l'Ankaratra – Prov. Toamasina: Andasibe (Perinet), Andekaleka (Rogez), Ivondro – Prov. Fianarantsoa: Ambositra.

General distribution: Endemic.

Family Gasteruptiidae

Genus *Gasteruption* LATREILLE, 1796

Description: LATREILLE 1796: 113.

Typus generis: *Ichneumon assectator* LINNAEUS, 1758.

Distribution: All zoogeographical regions.

Valid species in the region: 4.

***Gasteruption ferrugineum* PASTEELS, 1956**

Gasteruption ferrugineum: PASTEELS 1956: 13 (key), 59 (descr. ♂♀, Madagascar), 60 (figs. 41a-f).

Regional distribution: Madagascar: Prov. Toliara: Behara, Fort-Dauphin.

General distribution: Endemic.

***Gasteruption madagascarensis* BENOIT, 1984**

Gasteruption madagascarensis: BENOIT 1984: 710 (replacement name for *Gasteruption depressum madecassum*, Madagascar).

Gasteruption depressum madecassum: PASTEELS 1956: 19 (key), 81 (descr. ♂, Madagascar).

Regional distribution: Madagascar: Prov. Toliara: Behara, Bekily.

General distribution: Endemic.

Note: *Gasteruption depressum madecassum* PASTEELS, 1956 is a junior homonym of *Gasteruption pedicellatum madecassum* PASTEELS, 1956.

***Gasteruption pedicellatum madecassum* PASTEELS, 1956**

Gasteruption pedicellatum madecassum n. subsp.: PASTEELS 1956: 16 (key), 50 (descr. ♂♀, Madagascar). BENOIT 1984: 714 (tax., Madagascar).

Regional distribution: Madagascar: Prov. Antsiranana: Nosy Komba – Prov. Toliara: Bekily.

General distribution: Endemic.

***Gasteruption seyrigi* PASTEELS, 1956**

Gasteruption Seyrigi: PASTEELS 1956: 19 (key), 83 (descr. ♂♀, Madagascar), 84 (figs. 62a-e).

Regional distribution: Madagascar: Prov. Toamasina: Andekaleka (Rogez) – Prov. Toliara: Bekily.

General distribution: Endemic.

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