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Zootaxa 2315: 47–50 (2009)
www.mapress.com/zootaxa/

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ISSN 1175-5326 (print edition)

ZOOTAXA

ISSN 1175-5334 (online edition)

Taxonomic notes on the Evaniidae (Hymenoptera) described by J. Brèthes

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The French-Argentine entomologist Jean Brèthes described many species, mainly in the insect orders Diptera and Hymenoptera, during the first three decades of the 20th century. Most of the specimens studied by Brèthes are housed at the Entomology Division of the Museo Argentino de Ciencias Naturales “Bernardino Rivadavia” in disparate states of preservation and curation. The statuses of many of Brèthes’s specimens labeled as types need to be ascertained (e.g., Quicke & Genise 1990), since Brèthes mislabeled many specimens and classified others under *nomina nuda* (personal observation). This, together with important changes in the classification of most insect orders since the times of Brèthes, make it necessary to reexamine the material that he studied and to recognize overlooked type specimens which have remained unnoticed within the general collection of the museum, as recently mentioned for *Colpotrochia flava* (Brèthes) (Martinez 2008).

The evaniid collection of the Museo Argentino de Ciencias Naturales “Bernardino Rivadavia” comprises about 220 specimens, mostly from Argentina, and includes all type material of evaniids described by Brèthes. He described seven ensign wasp species from South America in the genera *Brachygaster* Leach, *Evania* Fabricius, and *Hyptia* Illiger (Brèthes 1913; 1927a). Brèthes also studied material from the Deutsches Entomologisches Institut (DEI), in Müncheberg, Germany. Nevertheless he did not describe evaniid species in his study of the specimens housed at the DEI (Brèthes 1927b; 1927c) and, as listed by Taeger *et al.* (2005), there are no evaniid types described by Brèthes in the collection of Hymenoptera in that institution.

The aim of this work is to revise all available type material of the family Evaniidae studied by Brèthes, classify it according to the current generic classification of the family and assert the status of the specimens labeled as types.

Material and methods

All the specimens described by Brèthes examined in this work are housed at the Entomology Division of the Museo Argentino de Ciencias Naturales “Bernardino Rivadavia” (MACN), Buenos Aires, Argentina. The specimens bear a series of original and non original labels as illustrated in figures 1 and 2. It is common that specimens do not have any original identification label, instead Brèthes used to put just a small label with a number which corresponds with the numbers on his notes, now deposited at the Museum. A detailed description and explanation on Brèthes’s labels can be found in Quicke and Genise (1990).

The generic classification of the Evaniidae followed here is that of Deans and Huben (2003) and Deans (2005).

The full data of each specimen is written between double quotation marks, data of each label is separated by slashes. For example, the data of one of the specimens of *Evania bonariensis* illustrated in figure 1 is “Buen. Ayres / 541 / 9 / *Evania bonariensis* Br. / TYPUS”, indicating that there are five labels bearing the information. Each specimen received a new unique identification number and a new label was attached to the specimens designated as lectotypes and paralectotypes. Images of the habitus of all the specimens studied in this work are available at: <http://www.morphbank.net/myCollection/?id=496835>

Systematics

Genus *Evaniella* Bradley

Deans (2005) listed the following species under the genus *Evania* Fabricius. Nevertheless, based on their geographical

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distribution he mentioned that they could belong to *Evaniella*. Examination of the specimens confirms Deans's conjecture.



FIGURES 1–2. Labels attached to some of Brèthes's types. 1, labels of one syntype of *Evania bonariensis*; 2, labels of one syntype of *Evania platensis*. Asterisks indicate Brèthes's original labels.

***Evaniella bonariensis* (Brèthes) comb. nov.**

Evania bonariensis Brèthes, 1913: 36 original description, male, MACN; De Santis, 1967: 92, catalog of Argentinian species; Deans, 2005: 33, catalog of World species.

Evania (Evania) bonariensis, Hedicke 1939: 18, catalog of World species.

Material examined: one male, (lectotype, here designated), "Buen. Ayres / 541 / 9 / *Evania bonariensis* Br. / TYPUS / MACN-En 6227 / *Evania bonariensis* LECTOTIPO, Des. Martinez 2009"; one male (paralectotype), "541 / 9 / *Evania bonariensis* Br. / TYPUS / MACN-En 6228 / *Evania bonariensis* Brèthes PARALECTOTIPO, Des. Martinez 2009".

***Evaniella friburgensis* (Brèthes) comb. nov.**

Evania friburgensis Brèthes, 1913: 35 original description, male, MACN; De Santis, 1967: 92, catalog of Argentinian species; Deans, 2005: 37, catalog of World species.

Evania (Evania) friburgensis, Hedicke 1939: 19, catalog of World species.

Material examined: one male (lectotype, here designated), "535 / 8 / TYPUS / MACN-En 6229 / *Evania friburgensis* LECTOTIPO, Des. Martinez 2009"; one male (paralectotype) "Nov. Frib. / 535 / 8 / *Evania friburgensis* Brèth. / TYPUS / MACN-En 6230 / *Evania friburgensis* Brèthes PARALECTOTIPO, Des. Martinez 2009".

Remarks. The paralectotype is in poor condition, lacking both eyes.

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Evaniella platensis (Brèthes) comb. nov.

Evania platensis Brèthes, 1913: 36 original description, male, MACN; De Santis, 1967: 92, catalog of Argentinian species; Deans, 2005: 40, catalog of World species.

Evania (Evania) platensis, Hedicke 1939: 21, catalog of World species.

Material examined: one male (lectotype, here designated) "A. Zotta, Buenos Aires, 8.XII.1905 / *Evania platensis* Br. / TYPUS / MACN-En 6231 / *Evania platensis* Brèthes LECTOTIPO, Des. Martinez 2009"; one male (paralectotype) "A. Zotta, Buenos Aires, 8.XII.1905 / 10 / *Evania platensis* Brèth. / TYPUS / MACN-En 6232 / *Evania platensis* PARALECTOTIPO, Des. Martinez 2009".

Remarks. In the original description Brèthes specifically stated that he had studied one male from Buenos Aires collected by A. Zotta in 1905. Two specimens bear almost identical data on the labels and fit in Brèthes's description, therefore they are considered syntypes and a lectotype is here designated. The lectotype bears the original label handwritten by Brèthes reading "*Evania platensis*", the paralectotype bears a small label with the number 10, which corresponds to the name *Evania platensis* in Brethes's original notes.

Evaniella porteri (Brèthes) comb. nov.

Evania porteri Brèthes, 1927a: 194 original description, male, MACN; De Santis, 1967: 92, catalog of Argentinian species; Deans, 2005: 40, catalog of World species.

Evania (Evania) porteri, Hedicke 1939: 21, catalog of World species.

Material examined: one male (holotype), "Valdivia, 1-24 / type! / *Evania porteri* Brèthes / TYPUS / MACN-En 6233".

Remarks. The specimen lacks the entire metasoma.

Evaniella rufescens (Brèthes) comb. nov.

Evania rufescens Brèthes, 1913: 37 original description, female, MACN; De Santis, 1967: 92, catalog of Argentinian species; Deans, 2005: 41, catalog of World species.

Evania (Evania) rufescens, Hedicke 1939: 22, catalog of World species.

Material examined: one female (holotype), "Buen. Ayres. / 536 / 13 / *Evania rufescens* Brèth. / TYPUS / MACN-En 6234".

Genus *Hyptia* Illiger

Hyptia lynchi Brèthes

Hyptia lynchi Brèthes, 1913: 38 original description, male, MACN; Hedicke, 1939: 41, catalog of World species; De Santis, 1967: 93, catalog of Argentinian species; Deans, 2005: 62, catalog of World species.

Material examined: one male (holotype), "58 / 6879 / Chaco / *Hyptia lynchi* Brèthes / TYPUS / MACN-En 6236".

Remarks. The specimen is in poor condition, with both antennae incomplete and the left fore wing missing.

Genus *Semaeomyia* Bradley

Semaeomyia tandilensis (Brèthes)

Brachygaster tandilensis Brèthes, 1913: 38 original description, male MACN; De Santis, 1967: 93, catalog of Argentinian species.

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Brachygaster (Semaeomyia) tandilensis, Hedicke 1939: 39, catalog of World species.
Semaeomyia tandilensis, Deans 2005: 101, catalog of World species.

Material examined: one male (holotype), “10006 / Tandil, 15.I.09, Esteban Caride / 11 / *tandilensis* Brèth / HOLOTYPE / MACN-En 6235”.

Remarks. The specimen is poorly preserved, lacking most of the tarsi and the metasoma posterior to the petiole.

Acknowledgments

I thank Arturo Roig-Alsina for his help with old labels and with Brèthes's original notes. Andrew Deans provided helpful comments on an earlier version of the manuscript. Grateful thanks are also extended to Matías Izquierdo, Rocío González Vaquero and Luis Piacentini for their help.

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