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TYPE SPECIMENS OF BEES (HYMENOPTERA, APIDAE) DEPOSITED IN THE MUSEU DE ZOOLOGIA DA UNIVERSIDADE DE SÃO PAULO, BRAZIL

KELLI S. RAMOS^{1,3}

RICARDO KAWADA²

CARLOS ROBERTO F. BRANDÃO^{1,4}

ABSTRACT

The present catalogue lists the bee types (Hymenoptera, Apidae s.l.) deposited in the Museu de Zoologia, Universidade de São Paulo, Brazil (MZSP). The Hymenoptera collection of the MZSP is one of the most important collections for the Brazilian and Neotropical faunas, holding relatively large number of types and represented taxa. The Apidae collection includes a total of 473 type-specimens (101 holotypes, 30 lectotypes, 190 paratypes, 34 paralectotypes, and 119 syntypes) that represent 257 species currently classified in 88 genera, 22 tribes, and five subfamilies (Andreninae, Apinae, Colletinae, Halictinae, and Megachilinae). Label data and additional information from the MZSP registers, literature sources, and taxonomic remarks are given, including high-resolution photographs of holotypes and lectotypes available through links to Specimage (image database of The Ohio State University).

KEY-WORDS: Apoidea; Catalogue; MZSP; Taxonomy; Types list.

INTRODUCTION

Bees (Apoidea, Apidae *s.l.*) comprise the major group of Hymenoptera (Aculeata) and are the most important pollinating agents in numerous natural ecosystems, as well as for many agricultural crops (Michener, 2007). Given such importance, a growing concern about the conservation of bee species has become prominent, with many studies focusing the species diversity and the ecosystem services they provide.

The bees are a cosmopolitan group of approximately 20.000 described species, whose origin in the Cretaceous is directly associated to the appearance of the first flowering plants in the xeric interior of the old continent of Gondwanaland (Africa-South America) (Michener, 2007). The more species-rich and diverse regions of bees are the warm-temperate and xeric areas of the world, especially those with sandy soils (Michener, 2007). Among these, the Neotropical region is among the richest area of bees in the world with

¹ Museu de Zoologia, Universidade de São Paulo. Caixa Postal 42.494, 04218-970, São Paulo, SP, Brasil.

² Universidade Federal da Grande Dourados – UFGD, Faculdade de Ciências Biológicas e Ambientais, Programa de Pós-Graduação em Entomologia e Conservação da Biodiversidade. Rodovia Dourados-Itahum, km 12, Cidade Universitária, CEP 79804-970, Dourados, MS, Brasil. E-mail: ctax.base@gmail.com, Researcher ID: B-6051-2009.

³ E-mail: kellisramos@gmail.com, Researcher ID: G-7526-2015.

⁴ E-mail: crlbrand@usp.br, Researcher ID: D-2047-2012.

more than 5.000 species reported, many of them endemic (Moure *et al.*, 2007, 2013).

The Museum of Zoology of the University of São Paulo ('Museu de Zoologia da Universidade de São Paulo' – MZSP) holds one of the most important historical collections for the Neotropical and Brazilian Hymenoptera faunas. The earliest Hymenoptera specimens deposited in the museum date back to the early 20th century and correspond to material collected by Hermann von Lüderwaldt and Hermann von Ihering, when the zoological collection was formerly a section of the 'Museu Paulista' (Klingenberg & Brandão, 2005). The collection includes an extensive amount of species described and/or identified by specialists with great historical significance to bee systematics.

The MZSP collection of bees comprises approximately 35.000 specimens, including many type specimens described by Adolpho Ducke (1876-1959), Heinrich Friese (1860-1948), Hermann Friedrich Albrecht von Ihering (1850-1930), Curt Schrottky (1874-1937), João Maria de Franco Camargo (1941-2009), and Jesus Santiago Moure (1912-2010); recently, the type specimens described by Schrottky was listed by Rasmussen *et al.* (2009). Collections amassed by Ernest Garbe (1853-1925) and Karol Lenko (1914-1975) in São Paulo state, and particularly by Wolfgang Wilms in the Ecological Station of Boracéia (São Paulo, Brazil), greatly contributed to the enrichment of the collection from the nineteenth century on. Since then, the collection has been receiving material from many research projects, in special the recent Biota/FAPESP and INCT-HYMPAR/Sudeste (CNPq/FAPESP) programs, as well as from the acquisition of smaller collections, exchanges, and deposit of specimens from other institutions and/ or specialists from different parts of the world.

The purpose of the present catalogue is to list the bee type specimens deposited in the MZSP, providing taxonomic remarks and information of their corresponding labels. Additionally, a large dataset of primary types images in high-resolution is provided.

This paper is part of a series of lists being published to cover the Hymenoptera deposited in the entomological collection of MZSP (Klingenberg & Brandão, 2005; Brandão *et al.*, 2010; Esteves *et al.*, 2011; Prado & Brandão, 2013; Ulysséa & Brandão, 2013; Onody *et al.*, 2014). These initiatives are in agreement with efforts from various institutions to document their type specimen holdings as recommended the Article 72F.4 of the International Commission on Zoological Nomenclature (ICZN, fourth edition, January 1999), which regards the documentation of the specimens type as an institutional responsibility.

MATERIAL AND METHODS

The presented catalogue lists all bee types specimens deposited at MZSP according to their original combinations and arranged in alphabetical order by genus and specific epithet of the species, considering the current classification. The species classification follows Melo & Gonçalves (2005) and Moure *et al.* (2007, 2013). The names of species are followed by author(s), year, and page of publication. All information given herein was taken from labels data and listed as complete are they appear in these labels, with the addition of further information recovered from MZSP registers. Although the existence of a holotype or lectotype and neotype is important to secure the stability of nomenclature by fixing the identity of the taxa, all type specimens were recorded in the present catalogue. We avoid designating lectotypes, as recommended by ICZN; designations are to be made within a revisionary context, and not only for curatorial purposes (Article 74, 74G).

Type specimens were recognized from their labels, compared to the original descriptions, the Moure's Bee Catalogue website (<http://moure.cria.org.br/catalogue>) (Moure *et al.*, 2013), the Schrottky's catalogue (Rasmussen *et al.*, 2009), and the Friese's catalogue (Rasmussen & Ascher, 2008). In the special case of the types described by Friese is important to be careful about the status of the specimens holding type labels because he did not clearly distinguish the types consistently and his conventions may be misinterpreted (see Rasmussen & Ascher, 2008). The type specimens labels were transcribed with apostrophe marks (' ') indicating information of different labels attached to the same specimens. Of each label, original information is given in the original language used by authors; information between brackets ([]) is given to explicit abbreviated or important concealed information, and question marks (?) are applied when handwriting was impossible to decipher.

Additionally, information on high resolution photographs of primary type specimens (holotypes, lectotypes, and neotypes) and their labels are provided and available via a link in the Specimage (<http://specimage.osu.edu>), a database at The Ohio State University. Series of images were obtained from Leica M205C magnifying stereoscope attached to a Leica DFC 295 video camera and assembled with the Leica LAS (Leica Application Suite V3.6.0) and Helicon Focus (version 6.0.18) – render method based on Method C (Pyramid). Final figures were edited in commercial software for small adjustments, such as brightness and contrast. Despite its importance to

TABLE 1: Type specimens of bees (Hymenoptera, Apidae) deposited in the Museu de Zoologia, Universidade de São Paulo, Brazil (MZSP) that are currently under loan and could not be assessed for this work; female (F), male (M), female worker (W).

Taxon	Current status	Type
Apinae: Apini: Euglossina		
<i>Centris venezolana</i> Schrottky, 1913	<i>Eufriesea venezolana</i> (Schrottky, 1913)	Holotype (M)
Apinae: Apini: Meliponina		
<i>Melipona scutellaris paraensis</i> Ducke, 1916	—	Lectotype (W)
Apinae: Nomadini		
<i>Trophocleptria 4-spinosa</i> Schrottky, 1909	<i>Rhinepeolus rufiventris</i> (Friese, 1908)	Holotype (M)
Colletinae: Neopasiphaeini		
<i>Niltonia virgilioi</i> Moure, 1964	—	Holotype (F)
<i>Perditomorpha paraguayensis</i> Schrottky, 1907	<i>Perditomorpha paraguayensis</i> Schrottky, 1907	Syntypes (F,M)
Megachilinae: Anthidiini		
<i>Anthidium cuzcoense</i> Schrottky, 1910	—	Lectotype (F)
<i>Anthidium garleppi</i> Schrottky, 1910	—	Lectotype (F)
<i>Anthidium nigerrimum</i> Schrottky, 1910	—	Lectotype (F)
<i>Anthidium patagonicum</i> Schrottky, 1910	<i>Anthidium chubuti</i> Cockerell, 1910	Lectotype (F)
<i>Anthidium peruvianum</i> Schrottky, 1910	—	Lectotype (M)
<i>Anthidium subpetiolatum</i> Schrottky, 1910	<i>Anthidium subpetiolatum</i> (Schrottky, 1910)	Lectotype (F)
<i>Dianthidium anisitsi</i> Schrottky, 1908	<i>Dianthidium anisitsi</i> Schrottky, 1908	Lectotype (M)
<i>Dianthidium autumnale</i> Schrottky, 1909	<i>Epanthidium autumnale</i> (Schrottky, 1909)	Lectotype (F)
<i>Dianthidium brethesi</i> Schrottky, 1909	<i>Epanthidium brethesi</i> (Schrottky, 1909)	Lectotype (M)
<i>Dianthidium catamarcense</i> Schrottky, 1909	<i>Austrostelis catamarcensis</i> (Schrottky, 1909)	Lectotype (M)
<i>Dianthidium iberingi</i> Schrottky, 1910	<i>Austrostelis iberingi</i> (Schrottky, 1910)	Lectotype (M)
<i>Dianthidium nudum</i> Schrottky, 1909	<i>Austrostelis catamarcensis</i> (Schrottky, 1909)	Lectotype (F)
<i>Dianthidium zebratum</i> Schrottky, 1905	<i>Austrostelis zebrata</i> (Schrottky, 1905)	Lectotype (M)
<i>Bothranthidium lauroi</i> Moure, 1947	—	Holotype (F)
<i>Hypanthidium tigrinum</i> Schrottky, 1905	<i>Epanthidium tigrinum</i> (Schrottky, 1905)	Holotype (F)
<i>Nananthidium bettyae</i> Moure, 1947	—	Holotype (F)
Megachilinae: Megachilini		
<i>Megachile (Moureapis) atahualpa</i> Schrottky, 1913	—	Holotype (F)
<i>Megachile bicegoi</i> Schrottky, 1913	<i>Megachile (Leptorachis) propinqua</i> Smith, 1879	Holotype (F)
<i>Megachile (Pseudocentron) botucatuana</i> Schrottky, 1913	—	Holotype (M)
<i>Megachile dalmeidai</i> Moure, 1944	<i>Megachile (Pseudocentron) dalmeidai</i> Moure, 1944	Holotype (F)
<i>Megachile itapuae</i> Schrottky, 1908	<i>Megachile (Acentron) itapuae</i> Schrottky, 1908	Holotype (F)
<i>Megachile (Leptorachis) rubricrus</i> Moure, 1948	—	Holotype (M)

recognize the primary types, these images also provide documentation for the condition of specimens and label information.

RESULTS

The collection comprises a total of 473 type-specimens (101 holotypes, 30 lectotypes, 190 paratypes, 34 paralectotypes, and 119 syntypes), considering both the specimens currently registered in the museum as those currently under loan (Table 1). Exemplars here listed represent 257 species current classified in 88 genera, 22 tribes, and five subfamilies (Andreninae, Apinae, Colletinae, Halictinae, Megachilinae) distributed in countries mainly throughout South America. These numbers exclude type speci-

mens reported in the literature as deposited in MZSP but that were not located (Table 2).

Andreninae

Calliopsini

Acamptopoeum Cockerell

Friesea brasiliensis Schrottky, 1902a: 418

Syntypes: 1♂ ‘*Friesea brasiliensis*’ ‘Tipo’ ‘102.540’; 1♀ ‘*Friesea brasiliensis*’ ‘Tipo’ ‘102.541’. *Current status:* *Acamptopoeum prinii* (Holmberg, 1884). *Comments:* In the original description of the syntypes the type locality is recorded as Jundiá and São Paulo (São Paulo, Brazil). The lack of locality labels on listed syntypes did not afford the recognition of the provenance of each specimen, except in case of the unique male described from São Paulo city.

TABLE 2: Type specimens of bees (Hymenoptera, Apidae) reported in the literature as deposited in the Museu de Zoologia, Universidade de São Paulo, Brazil (MZSP) but that were not located.

Taxon	Current status	Type
Andreninae: Calliopsini		
<i>Arhysosage flava</i> Moure, 1958	—	Paratype
<i>Arhysosage germana</i> Moure, 1958	<i>Arhysosage ochracea</i> (Friese, 1908)	Paratype
Andreninae: Protandrenini		
<i>Cephalurgus anomalus</i> Moure & Lucas de Oliveira, 1962	—	Paratype
<i>Panurgillus flavitarsis</i> Schindwein & Moure, 1998	<i>Rhophitulus flavitarsis</i> (Schindwein & Moure, 1998)	Paratype
<i>Panurgillus formosus</i> Schindwein & Moure, 1998	<i>Rhophitulus formosus</i> (Schindwein & Moure, 1998)	Paratype
<i>Panurgillus guaraticola</i> Schindwein & Moure, 1998	<i>Panurgillus guaraticola</i> Schindwein & Moure, 1998	Paratype
<i>Panurgillus hamatus</i> Schindwein & Moure, 1998	<i>Rhophitulus hamatus</i> (Schindwein & Moure, 1998)	Paratype
<i>Panurgillus malvacearum</i> Schindwein & Moure, 1998	<i>Rhophitulus malvacearum</i> (Schindwein & Moure, 1998)	Paratype
<i>Panurgillus minutus</i> Schindwein & Moure, 1998	<i>Rhophitulus minutus</i> (Schindwein & Moure, 1998)	Paratype
<i>Panurgillus pereziae</i> Schindwein & Moure, 1998	<i>Rhophitulus pereziae</i> (Schindwein & Moure, 1998)	Paratype
<i>Panurgillus plumosulus</i> Schindwein & Moure, 1998	<i>Rhophitulus plumosulus</i> (Schindwein & Moure, 1998)	Paratype
<i>Panurgillus politus</i> Schindwein & Moure, 1998	<i>Rhophitulus politus</i> (Schindwein & Moure, 1998)	Paratype
<i>Panurgillus reticulatus</i> Schindwein & Moure, 1998	<i>Rhophitulus reticulatus</i> (Schindwein & Moure, 1998)	Paratype
Apinae: Centridini		
<i>Centris (Melacentris) confusa</i> Moure, 1960	—	Holotype
<i>Centris (Melacentris) furcata friesei</i> Schrottky, 1902	<i>Centris (Melacentris) obsoleta</i> Lepeletier, 1841	Holotype
<i>Centris (Ptilotopus) decipiens</i> Moure & Seabra, 1960	—	Paratype
Apinae: Emphorini		
<i>Diadasia paraensis monticola</i> Moure, 1944	<i>Diadasia monticola</i> (Moure, 1944)	Holotype
<i>Leptometria willineri</i> Moure, 1947	<i>Diadasia willineri</i> (Moure, 1947)	Paratype
<i>Melitoma torquata</i> Roig-Alsina, 2009	—	Paratype
Apinae: Ericrocidini		
<i>Acanthopus excellens</i> Schrottky, 1902	—	Syntype
<i>Mesonychium littoreum</i> Moure, 1944	—	Paratype
Apinae: Eucerini		
<i>Florilegus (Euflorilegus) barbiellinii</i> Moure & Michener, 1955	<i>Florilegus (Euflorilegus) fulvipes</i> (Smith, 1854)	Paratype
<i>Thygater sordidipennis</i> Moure, 1941	—	Paratype
Apinae: Exomalopsini		
<i>Exomalopsis lissotera</i> Moure, 1943	—	Paratype
<i>Exomalopsis (Phanomalopsis) atlantica</i> Silveira, 1996	—	Holotype
Apinae: Apini: Meliponina		
<i>Trigona (Frieseomelitta) freiremaiai</i> Moure, 1963	<i>Frieseomelitta freiremaiai</i> (Moure, 1963)	Paratype
<i>Melipona minima meridionalis</i> Ducke, 1916	<i>Plebeia meridionalis</i> (Ducke, 1916)	Syntype
<i>Plebeia fraterna</i> Laroca & Rodriguez-Parilli, 2009	—	Paratype
<i>Plebeia julianii</i> Moure, 1962	—	Paratype
<i>Plebeia margaritae</i> Moure, 1962	—	Paratype
<i>Scaptotrigona postica xanthotricha</i> Moure, 1950	<i>Scaptotrigona xanthotricha</i> Moure, 1950	Paratype
<i>Tetragona truncata</i> Moure, 1971	—	Paratype
<i>Trigona sesquipedalis</i> Almeida, 1984	—	Paratype
Apinae: Tapinotaspidini		
<i>Nasutopedia micheneri</i> Aguiar & Melo, 2011	—	Paratype
<i>Trigonopedia oligotricha</i> Moure, 1941	—	Paratype
Apinae: Xylocopini		
<i>Ceratina cyanicollis</i> Schrottky, 1902	—	Holotype
<i>Ceratinula turgida</i> Moure, 1941	<i>Ceratina (Ceratinula) turgida</i> (Moure, 1941)	Paratype
Colletinae: Colletini		
<i>Colletes kerri</i> Moure, 1956	—	Paratype
<i>Colletes punctatissimus</i> Schrottky, 1902	<i>Colletes rugicollis</i> Friese, 1900	Holotype

Taxon	Current status	Type
Colletinae: Diphaglossini		
<i>Ptiloglossa hemileuca</i> Moure, 1944	—	Paratype
Colletinae: Neopasiphaeini		
<i>Belopria zonata</i> Moure, 1956	—	Paratype
<i>Lonchopria (Ctenosibyne) cingulata</i> Moure, 1956	<i>Ctenosibyne cingulata</i> (Moure, 1956)	Paratype
<i>Pasiphae iberingi</i> Schrottky, 1910	<i>Bicolletes iberingi</i> (Schrottky, 1910)	Holotype
Halictinae: Augochlorini		
<i>Augochlora (Augochlora) mulleri</i> var. <i>capitata</i> Schrottky, 1902	<i>Augochlora (Augochlora) mulleri</i> Cockerell, 1900	Holotype
<i>Augochlora (Paraugochloropsis) leocadia</i> Schrottky, 1909	<i>Augochloropsis smithiana</i> (Cockerell, 1900)	Holotype
<i>Augochlorodes turrifaciens</i> Moure, 1958	—	Paratype
<i>Augochloropsis crassiceps</i> Moure, 1947	—	Paratype
<i>Augochloropsis crassigena</i> Moure, 1943	—	Paratype
<i>Augochloropsis melanochaeta</i> Moure, 1950	—	Paratype
<i>Chloralictus loureiroi</i> Moure, 1941	<i>Halictillus loureiroi</i> (Moure, 1941)	Paratype
<i>Corynuroides zikani</i> Moure, 1943	<i>Rhinocorynura crotonis</i> (Ducke, 1906)	Paratype
<i>Paroxystoglossa mimetica</i> Moure, 1950	—	Paratype
<i>Pereirapis rhizophila</i> Moure, 1943	—	Paratype
<i>Oxystoglossidia uraniella</i> Moure, 1943	<i>Augochlorella ephyra</i> (Schrottky, 1910)	Paratype
<i>Oxystoglossidia uranioides</i> Moure, 1943	<i>Augochlorella urania</i> (Smith, 1853)	Paratype
Halictinae: Halictini		
<i>Chloralictus rhytidophorus</i> Moure, 1956	<i>Dialictus rhytidophorus</i> (Moure, 1956)	Paratype
<i>Pseudagapostemon rufipes</i> Moure, 1943	<i>Pseudagapostemon ochromerus</i> (Vachal, 1904)	Paratype
Megachilinae: Anthidiini		
<i>Anthidium sertanicola</i> Moure & Urban, 1964	—	Paratype
<i>Anthidium erythrocephala</i> Schrottky, 1902	<i>Epanthidium erythrocephalum</i> (Schrottky, 1902)	Syntype
<i>Anthidium nectarinioides</i> Schrottky, 1902	<i>Epanthidium nectarinioides</i> (Schrottky, 1902)	Syntype
<i>Coelioxys assumptionis</i> Schrottky, 1909	<i>Coelioxys (Neocoelioxys) simillima</i> Smith, 1854	Syntype
<i>Megachile anomala</i> Schrottky, 1902	<i>Megachile (Austromegachile) susurrans</i> Haliday, 1836	Holotype
<i>Megachile (Moureapis) apicipennis</i> Schrottky, 1902	—	Holotype
<i>Megachile (Trichurochile) cachoeirensis</i> Schrottky, 1920	—	Syntype
<i>Megachile fiebrigi</i> Schrottky, 1908	<i>Megachile (Austromegachile) fiebrigi</i> Schrottky, 1908	Syntype
<i>Megachile giraffa</i> Schrottky, 1913	<i>Megachile (Austromegachile) exaltata</i> Smith, 1853	Holotype
<i>Megachile minuscula</i> Schrottky, 1913	<i>Megachile (Austromegachile) susurrans</i> Haliday, 1836	Syntype
<i>Megachile nigropilosa</i> Schrottky, 1902	<i>Megachile (Moureapis) nigropilosa</i> Schrottky, 1902	Holotype
<i>Megachile (Sayapis) opsipanes</i> Moure, 1943	<i>Megachile (Sayapis) mendozaana</i> Cockerell, 1907	Paratype
<i>Neochelynia paulista</i> Schrottky, 1920	<i>Megachile (Neochelynia) paulista</i> (Schrottky, 1920)	Holotype
<i>Megachile rodriguesi</i> Moure, 1943	<i>Megachile (Neochelynia) brethesi</i> Schrottky, 1909	Paratype
<i>Megachile (Leptorachis) tenuitarsis</i> Schrottky, 1920	—	Holotype
<i>Megachile thygaterella</i> Schrottky, 1913	—	Holotype
<i>Megachile (Acentron) tupinaquina</i> Schrottky, 1913	—	Holotype
<i>Megachile vernoniae</i> Schrottky, 1913	<i>Megachile (Melanosarus) nigripennis</i> Spinola, 1841	Syntype
<i>Megachile rubricata beroni</i> Schrottky, 1902	<i>Megachile (Pseudocentron) curvipes</i> Smith, 1853	Holotype
<i>Megachile fossoris leuocentra</i> Schrottky, 1908	<i>Megachile (Pseudocentron) curvipes</i> Smith, 1853	Holotype

Arhysosage Brèthes

Arhysosage biguttulata Ramos, 2013: 2737

Paratypes: 2♂ 'Brasil, Mato Grosso do Sul, Porto Murtinho, Estrada do Rio Apa, 21°47.383'S/57°34.468'W, 21.i.2008, F.A. Esteves leg.'; 1♀ and 1♂ 'Brasil, Mato Grosso do Sul, Porto Murtinho, 21-30.i.2008, S. Nihei & A.J.C. Aguiar leg'; 1♀ 'Brasil, Mato Grosso

do Sul, Porto Murtinho, estr.[ada] para Faz.[enda] Pirizal, 10-11.xii.2008, K.S. Ramos & V. Kanamura [col.]'.

Psaenythia bifasciata Friese, 1908: 41

Syntype: 1♀ 'Argentina, Mendoza, 24.ii.1905, Jensen [col.]' 'Cotipo' 'Typus' '102.547'. Current status: *Arhysosage bifasciata* (Friese, 1908).

Protandrenini***Chaeturginus* Lucas-de-Oliveira & Moure*****Chaeturginus alexanderi* Ruz & Melo, 1999: 233**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000002>)

Holotype: ♂ 'Brasil, SP [São Paulo], Campinas, 15.xii. [19]90-02.i.1991, Alexandre Ruszczyk [col.]' 'Reserva Municipal de Santa Genebra, Armadilha Malaise' 'Holotype, *Chaeturginus alexanderi*, Ruz & Melo'.

***Rhophitulus testaceus* Ducke, 1907a: 367**

Paralectotype: 1♂ 'Brazil, Estado do Amazonas' '[Brazil, Amazonas], R.[io] Japurá, 20.[?].1904, Ducke [col.]' '*Rhophitulus testaceus* Ducke typ[e]' 'Cotipo' '102.556'. *Current status*: *Chaeturginus testaceus* (Ducke, 1907). *Comments*: Lectotype and paralectotype designated by Ruz & Melo (1999: 233).

Parapsaenythia* Friese**Anthrenoides paspali* Schrottky, 1909a: 148**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000001>)

Lectotype: ♂ '12.965 [Paraguay, Alto Paraná, Puerto Bertoni, i.1909, Schrottky col.]' 'Lectotype, *Anthrenoides paspali* Schrottky, 1909, desig. Ramos & Melo 2006'. *Current status*: *Parapsaenythia paspali* (Schrottky, 1909). *Comments*: Lectotype designated by Ramos & Melo (2010: 464).

***Parasarus specularis* Ramos, 2014b: 509**

Paratypes: 4♀ and 4♂ 'Argentina, La Rioja, 10 km S Pituil, 26.xi.1993, J.G. Rozen [col.], On *Larrea*'; 1♀ 'ARG[entina], Valle de Zonda, SJ [San Juan], 11.03.[19]94, E. Michelette leg.' 'N[umber]: 0749, Pl[ant]: 010, Hor[hour]: 11:00'; 1♂ same data except label saying 'N[umber]: 0753, Pl[ant]: 010, Hor[hour]: 12:00'.

Protandrena* Cockerell**Protandrena avulsa* Ramos & Melo, 2006: 44**

Paratypes: 2♀ 'Brasil, E.[Espírito] Santo, Caracica, 02-08.v.[19]67, C.T. Elias [col.]'; 2♂ 'Brasil, ES[Espírito Santo], 19.iv.1967, C. & C.T. Elias [col.]'.

Psaenythia* Gerstaecker**Psaenythia variabilis* Ducke, 1908: 68**

Paralectotypes: 1♀ 'Brazil, Estado do Ceará' '[Brazil], Ceará, Serra do Baturité, 06.viii.[19]08, 600 m, Ducke [col.]' '*Psaenythia variabilis*, Ducke, typ[e]' '102.526'; 1♂ 'Brazil, Estado do Ceará' '[Brazil], Ceará, Serra do

Baturité, 600 m, 10.viii.[19]08, Ducke leg.' '*Psaenythia variabilis* Ducke, typ[e]' '102.525'. *Comments*: Paralectotype according designation by Nascimento (1979: 8).

Rhophitulus* Ducke**Rhophitulus friesei* Ducke, 1907a: 366**

Paralectotype: 1♀ 'Brazil, Estado de Minas Ger.[ais]' '[Brazil, Minas Gerais], Barbacena, 14.xii.1905, Ducke [col.]' 'Cotipo' '*Rhophitulus friesei* Ducke, typ[e]' '102.559'. *Comments*: Paralectotype according designation by Nascimento (1979: 9).

***Rhophitulus mimus* Ramos, 2014a: 548**

Paratypes: 1♀ and 2♂ 'Argentina, Salta, 18 km E. Cachi, 3000 m, March 21, 1990, J.G. Rozen & A. Roig [col.]' 'Paratype, *Rhophitulus mimus* Ramos, 2014'; 1♂ 'Argentina, Salta, 18 km E. Cachi, March 21, 1990, Rozen & Roig [col.], near nest area' 'Paratype, *Rhophitulus mimus* Ramos, 2014'.

***Panurginus solani* Ducke, 1912: 87**

Paralectotypes: 1♀ '[Brazil], Rio de Janeiro, Tijuca, xi.1911, 500 m, Ducke [col.]' 'Cotipo' '*Panurginus solani* Ducke, typ.[e]' '102.553'; 1♂ '[Brazil], Rio de Janeiro, Tijuca, xi.1911, 500 m, Ducke [col.]' 'Cotipo' '*Panurginus solani* Ducke, typ.[e]' '102.554'. *Current status*: *Rhophitulus solani* (Ducke, 1912). *Comments*: Paralectotype according to designation by Nascimento (1979: 8).

***Rhophitulus xenopalpus* Ramos, 2014a: 552**

Paratypes: 1♀ 'Argentina, Catamarca, Prov.[ince] Copacabana, 14 November 1998, A. Ugarte Peña [col.]' 'Paratype, *Rhophitulus xenopalpus* Ramos, 2014'; 2♀ 'Argentina, Tucumán, 11 km NW El Cadillal, Nov.[ember] 7, 1991, J.G. Rozen, L. Pena & A. Ugarte [col.]' 'Paratype, *Rhophitulus xenopalpus* Ramos, 2014'; 1♂ 'Argentina, Tucumán, El Cadillal to 12 km N, October 30, 1989, J.G. Rozen & A. Roig [col.]' 'Paratype, *Rhophitulus xenopalpus* Ramos, 2014'; 2♂ 'Argentina, Tucumán, 6 km W Tapia, XII-02-1993, J.G. Rozen [col.]' 'Paratype, *Rhophitulus xenopalpus* Ramos, 2014'.

***Protomeliturgini*
Protomeliturga Ducke*****Calliopsis turnerae* Ducke, 1907b: 76**

Paralectotype: 1♀ '11.303 [Brazil, Maranhão, São Luis, 08.vi.1907, Ducke col.]' '*Calliopsis turnerae* Ducke, typ.[e]' '96715'. *Current status*: *Protomeliturga*

turnerae (Ducke, 1907). *Comments*: Paralectotype according to designation by Nascimento (1979: 3).

Apinae
Apini
Euglossina
***Euglossa* Latreille**

Euglossa (Euglossa) melanotricha

Moure, 1967a: 47

Paratypes: 1♀ [Brazil], Goyaz [now Goiás], Vianópolis [*sic* Vianópolis], xi.[19]31, R. Spitz coll.' 'Paratype, *Euglossa melanotricha* J.S. Moure [19]66'; 1♀ [Brazil], Goyaz [now Goiás], Viannópolis [*sic* Vianópolis], iii.1936, R. Spitz coll.' 'Paratype, *Euglossa melanotricha* J.S. Moure 1966'; 1♀ [Brazil], Goyaz [now Goiás], Leop.[oldo] Bulhões, xii.[19]33, R. Spitz [col.]' 'Paratype, *Euglossa melanotricha* J.S. Moure 1966'; 1♀ [Brazil], E.[Estado] M.[Minas] Gerais, Pirapora, 1912, E. Garbe leg.' '18.025 [Brazil, Minas Gerais, Pirapora, 1912, E. Garbe col.]' 'Paratype, *Euglossa melanotricha* J.S. Moure 1966'; 1♀ '18.025 [Brazil, Minas Gerais, Pirapora, 1912, E. Garbe col.]' 'Paratype, *Euglossa melanotricha* J.S. Moure 1966'.

***Euglossa solangeae* Nemésio, 2007: 25**

Paratype: 1♂ 'Brazil, SP [São Paulo], S.[São] Sebastião, P.[raia] Cambury, i.1989, C.R.F. Brandão col.' 'Paratype, *Euglossa solangeae* Nemesio, 2007'. *Current status*: *Euglossa (Glossurella) stellfeldi* Moure, 1947.

***Eulaema* Lepeletier**

***Eulaema (Eulaema) mimetica* Moure, 1967a: 379**

Paratypes: 1♀ and 1♂ 'Brasil, Pará, Óbidos, 1956, F.M. Oliveira [col.]' 'Paratipo' 'Paratype, *Eulaema s. mimetica* J.S. Moure 1960'; 1♂ 'Brasil, Pará, Óbidos, 1955, J. Brazilino [col.]' 'Paratipo' 'Paratype, *Eulaema s. mimetica* J.S. Moure 1960'; 1♂ 'Brasil, Pará, Óbidos, xi.1953, J. Brazilino Coll.' 'Paratipo' 'Paratype, *Eulaema s. mimetica* J.S. Moure 1960'; 1♀ 'Brasil, Pará, Óbidos, Colônia Rio Branco, v.1953, Jose Brazilino [col.]' 'Paratipo' 'Paratype, *Eulaema s. mimetica* J.S. Moure 1960'.

***Centris nigrita raymondi* Schrottky, 1907a: 65**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000003>)

Lectotype: ♀ 'Venezuela, Caracas' '102.942' '*Centris nigrita* (Lep.) *var. raymondi* Schrottky, C. Schrottky 1912 det.' 'Lectótipo'. *Paralectotype*: 1♀ 'Venezuela, Caracas' '102.944' '*Centris nigrita* (Lep.) *var. raymondi* Schrottky, C. Schrottky 1912 det.' 'Paralectótipo'.

Current status: *Eulaema (Apeulaema) nigrita* Lepeletier, 1841. *Comments*: Lectotype designated by Moure (1967b: 412).

***Exaerete* Hoffmannsegg**

***Exaerete guaykuru* Anjos-Silva & Rebêlo, 2006: 29**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000008>)

Holotype: ♂ 'BR [Brazil], MT [Mato Grosso], C.[Chapada] dos Guimarães, Vale Vêu de Noiva, 18°20'01"/55°50'205"W, 29.xi.2004' 'E.J. Anjos-Silva leg., 959, Salicilato de metila' 'Holotypus, *Exaerete guaykuru* Anjos-Silva & Rebêlo'. *Current status*: *Exaerete trochanterica* (Friese, 1900).

Apini
Meliponina
***Geotrigona* Moure**

Melipona subterranea aequinoctialis

Ducke, 1925: 423

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000013>)

Lectotype: ♀ (worker), 'Brasil, Pará, 02.06.1902, Ducke [col.]' '103589' 'Lectótipo, *Geotrigona aequinoctialis* Ducke 1925, Des. Moure & Camargo, 1994'. *Paralectotype*: 1♀ (worker), 'Brasil, Pará, 18.08.1900, Ducke [col.]' '18.312' '*Trigona subterranea* Friese, det. Ducke 1911' '103579' 'Paralectótipo, *Geotrigona aequinoctialis* Ducke 1925, Des. Moure & Camargo, 1994'. *Current status*: *Geotrigona aequinoctialis* (Ducke, 1925). *Comments*: Lectotype and paralectotype designated by Camargo & Moure (1996: 118).

Geotrigona argentina

Camargo & Moure, 1996: 111

Paratypes: 1♀ (workers), '1.826 [Argentina, Chaco del Santiago del Estero]' '103586' 'Paratype, *Geotrigona argentina* Camargo & Moure, 1995'; 1♀ (workers), same labels data except '103584'.

***Trigona fulvohirta* Friese, 1900: 385**

Synotype: 1♀ (worker), 'Bolivia, [18]97' '1.003 [Bolivia, 1897]' '*Trigona fulvohirta*, 1900 Friese det.' '95054'. *Current status*: *Geotrigona fulvohirta* (Friese, 1900).

***Trigona subterranea* Friese, 1901: 265**

Syntypes: 1♀ (worker), '1.138 [Brazil, São Paulo, São Paulo, Ipiranga, 21.v.1900]' '103569'; 1♀ (worker), same labels data except '103570'. *Current status*: *Geotrigona subterranea* (Friese, 1901). *Comments*: Worker specimens probably from the type-series, see Camargo & Moure, 1996: 124.

Melipona Illiger***Melipona babiliana* Ducke, 1916: 169**

Syntypes: 1♀ ([Brazil], Bahia, Cid.[ade] da Barra' 18.710 [Brazil, Bahia, Cidade da Barra, x.1913, E. Garbe col.]) 'Typus' 103.214'; 1♂ same labels data except 103.213'. *Current status*: *Melipona (Melipona) mandacaia* Smith, 1863.

Melipona eburnea fuscopilosa**Moure & Kerr, 1950: 113**

Lectotype: ♀ (worker), '[Brazil], Pará, Santarém, 18.769 [Brazil, Pará, Santarém, 1901, E. Garbe col.]' 'Tipo' 103.254'. *Paralectotypes*: 1♀ (worker), 17.780 [Brazil, Pará, Santarém, 1901, E. Garbe col.] 'Tipo' 103.255' 'Para-lectotypus'; 1♀ 'Perú, Amazonico' [Peru], Iquitos, 02.08.1906, Ducke [col.] '103.307' 'Para-lectotypus'. *Current status*: *Melipona (Michmelia) fuscopilosa* Moure & Kerr, 1950. *Comments*: Lectotype and para lectotypes designated by Urban (2003: 33).

Melipona scutellaris flavofasciata**Ducke, 1916: 150**

Lectotype: ♀ (worker), '18.208 [Brazil, Pará, Trombetas, Rio Ariramba, 18.xii.1910, Ducke col.]' [Brazil, Pará], R.[io] Ariramba (Trombetas), 18.12.1910, Ducke [col.] 'Brazil, Estado do Pará' 103.256'. *Current status*: *Melipona (Michmelia) lateralis* Erichson, 1848. *Comments*: Lectotype according to Moure & Kerr (1950: 113) and Camargo & Pedro (*in* Moure et al. 2007: 373).

***Melipona captiosa* Moure, 1962: 10**

Paratype: 1♀ (worker), 'Brasil, AP [Amapá], Serra do Navio, 07.ii.[19]62, F.M. Oliveira [col.]'. *Current status*: *Melipona (Michmelia) captiosa* Moure, 1962.

***Melipona peruviana* Friese, 1900: 382**

Syntype: 1♀ (worker), '18.217 [Peru, Callanga]' '*Melipona peruviana* 190[?]' Friese det. '*Melipona peruviana* Friese, Pe. J.S. Moure det. [19]40' 103.247'. *Current status*: *Melipona (Melipona) peruviana* Friese, 1900.

***Melipona rufescens* Friese, 1900: 381**

Syntype: 1♀ (worker), '1.014 [Bolivia, Mapiri]' 'Bolivia, Mapiri, 1900' 103.250'. *Current status*: *Melipona (Michmelia) rufescens* Friese, 1900.

***Melipona seminigra* Friese, 1903: 359**

Syntype: 1♀ (worker), '18.219 [Brazil, Pará, Óbidos, vii.1902, Ducke col.]' 'Brasil, Para, Obidos, 26.07.1902, Ducke [col.]' 103.251' 'Cotipo'. *Current status*: *Melipona (Michmelia) seminigra seminigra* Friese, 1903.

***Melipona subnitida* Ducke, 1910: 107**

Paralectotype: 1♀ (worker), '[Brazil], Maranhão, Alcantara, 01.10.1903, Ducke [col.]' 'Brazil, Estado do Maranhão' 18.216 [Brazil, Maranhão, Alcântara, x.1903, Ducke col.], 'Cotipo' 103.311' '*Melipona subnitida* Ducke, Cotipo'. *Current status*: *Melipona (Melipona) subnitida* Ducke, 1910. *Comments*: Paralectotype according to the lectotype designation in Nascimento (1979: 7).

Nannotrigona Cockerell***Trigona dutrae* Friese, 1901: 267**

Syntype: 1♀ (worker), 'Brasil, Pará, 09.1900' '974' '*Trigona dutrae*, 1900 Friese det.' '95051'. *Current status*: *Nannotrigona dutrae* (Friese, 1901).

Partamona Schwarz***Partamona mourei* Camargo, 1980: 53**

Paratype: 1♀ (worker), '[Brazil, Pará], Óbidos, 20.07.1902, Ducke [col.]' '*Trigona pallida* Ltr. v. *rhumbleri* Friese, det. Ducke 1911' 18.247' '95497' 'Paratype, *P. (Partamona) mourei* Camargo 1976.

Partamona (Partamona) mulata**Moure in Camargo, 1980: 52**

Paratype: 1♀ (worker) 'Brasil, MT [Mato Grosso], Cuiabá, I.1963, M. Alvarenga [col.]' 'Paratype, *P. (Partamona) mulata* Camargo. 1977'.

***Trigona peckolti* Friese, 1901: 265**

Paralectotype: 1♀ (worker), 'Columbia [*sic* Colombia], Popayan, 1900, Lehmann [col.]' '*Trigona peckolti*, 1900 Friese det.' '95494'. *Current status*: *Partamona peckolti* (Friese, 1901). *Comments*: Paralectotype designated by Camargo & Pedro (*in* Moure et al. 2007: 444).

Partamona (Partamona) pseudomusarum**Camargo, 1980: 49**

Paratypes: 20♀ (workers), 'Brasil, PA [Pará], Alto Pará d' Oeste, Tiriós, I-II.1963, Machado & Pereira [col.]' 'Paratype, *P. (Partamona) pseudomusarum*, Camargo, 1976'; 8♀ (workers), 'Brasil, Pará, Alter do Chão, 19.ix.1969, Exp. Perm. Amaz.' 'Paratype, *P. (Partamona) pseudomusarum*, Camargo, 1976'; 1♀ (worker), 'Brazil, Estado do Pará' 'Oyapock[Oiaipoque], 29.05.1904, Ducke [col.]' '95493' 'Paratype, *P. (Partamona) pseudomusarum*, Camargo, 1976'; 1♀ (worker), 'Surinam' '1.002 [Suriname, 1898]' '*Trigona pallida*, 1900 Friese det.' '95490' 'Paratype, *P. (Partamona) pseudomusarum*, Camargo, 1976'; 1♀ (worker), same labels data

except '95489'; 1♀ (worker), 'Rio Acre, 1902' '18.305 [Brazil, Amazonas, 1902, Ducke col.]' '*Trigona pallida* Latr., det. Ducke 1911' '95491' 'Paratype, *P. (Partamona) pseudomusarum*, Camargo, 1976'. *Current status: Partamona vicina* Camargo, 1980.

***Partamona (Partamona) vicina* Camargo, 1980: 45**
Paratypes: 2♀ (workers), 'Brasil, Mato Grosso, MT [Mato Grosso], 02-xi-[19]61, F.M. Oliveira [col.]' '*P. (Partamona) vicina* Camargo, 1977'.

***Plebeia* Schwarz**

***Trigona emerina* Friese, 1900: 392**
Syntypes: 1♀ (queen), '926 [Brazil, Rio Grande do Sul, Dutra col.]' 'Cotipo' '95966'; 1♀ (worker), '926 [same data]' 'Cotipo' '*Tr. emerina* 1900 Friese det.' 'Brasil, S.[São] Leopoldo, 926, 1898, Dutra [col.]' '95969'; 1♀ (worker), '926 [same data]' 'Cotipo' '95972'. *Current status: Plebeia emerina* (Friese, 1900).

***Trigona saiqui* Friese, 1900: 392**
Syntypes: 1♀ (queen), '936a [Brazil, Rio Grande do Sul, São Leopoldo, Dutra col.]' '96076'; 1♀ (worker), same labels data except '96078'; 1♀ (workers), same labels data except '96079'. *Current status: Plebeia saiqui* (Friese, 1900).

***Scaptotrigona* Moure**

***Trigona (Scaptotrigona) depilis* Moure, 1942: 316**
Paratypes: 3♀ (workers) '[Brazil], Mato Grosso, Salobra, 20-23.vii.1939' 'Paratypus'; 3♀ and 1♂ (workers) '[Brazil], Mato Grosso, Salobra, 19-21.i.1941, F. Lane coll.' 'Paratypus'. *Current status: Scaptotrigona depilis* (Moure, 1942).

***Schwarziana* Moure**

***Schwarziana mourei* Melo, 2003: 89**
Paratypes: 20♀ (workers), '[Brazil], MT [Mato Grosso], marg[em] esq[uerda] rio Sucuriu, Faz[enda] Canaã, i.1967, F. Lane col.' 'Paratype, *Schwarziana mourei*, Melo 2003'; 1♀ (workers), '[Brazil], MT[Mato Grosso], Três Lagoas, Faz[enda] Floresta, 13-20.ix.1964, Exp.[edição] Depto[Departamento] [de] Zool[ogia]'.

***Trigonisca* Moure**

***Trigona fraisei* Friese, 1901: 268**
Syntypes: 1♀ (worker), '18.374 [Brazil, Pará, vi.1900, Ducke col.]' '*Trigona fraisei*, 1900 Friese det' 'Brasil, Pará, I. [Island of] Marajó, vi.1900, Ducke [col.]'

'95.427'; 1♀ (worker), '18.374 [same data]' 'Brazil, Estado do Pará' '*Trigona fraisei* Friese, det. Ducke 1911' '[Brazil, Pará, I.[Island of] Marajó, R.[iver] Anajás, 02.06.1900, Ducke' '95.426'. *Current status: Trigonisca fraisei* (Friese, 1901). *Comments:* Specimens indicated as cotypes by Moure (1950a: 254), although the date is different from that mentioned by Friese.

***Hypotrigona (Trigonisca) graeffei flavicans* Moure, 1950a: 257**

Paralectotype: 1♀ (worker), 'Brazil, Estado do Amazonas' '18.382 [Brazil, Amazonas, Santo Antonio do Iça, ix.1906, Ducke col.]' 'S.[anto] Antonio do Iça, 22.ix.1906, Ducke [col.]' '*Trigona graeffei* Friese, det. Ducke 1911' '103.568'. *Current status: Trigonisca flavicans* (Moure, 1950a). *Comments:* Paralectotype designated by Urban (2003: 33).

Centridini
***Centris* Fabricius**

***Centris ehrhardti* Schrottky, 1902a: 579**
Syntypes: 1♂ '1.360 [Brazil, São Paulo, Rincão, ii.1901, D. Ehrardt col.]; 1♂ '1.360' '97250'. *Current status: Centris (Melacentris) dorsata* Lepeletier, 1841.

***Centris (Trachina) machadoi* Azevedo & Silveira, 2005: 41**
Paratypes: 1♀ 'Brasil, MG [Minas Gerais], Bocaiúva, 11.viii.2003, A.A. Azevedo [col.]' 'Sucupira-preta, Faz.[enda] Vargem Grande, 8538-25979' '*Centris machadoi* Azevedo & Silveira sp. nov., Paratypus'; 1♂ same labels data except '8538-25983'.

***Centris maranhensis* Ducke, 1910: 99**
Paralectotype: 1♀ '[Brazil], Maranhão, Alcantara, 26.ix.1903, Ducke [col.]' 'Brazil, Estado do Maranhão' '*Centris maranhensis* Ducke, typo'. *Current status: Centris (Ptilotopus) maranhensis* Ducke, 1910. *Comments:* Paralectotype according to designation in Nascimento (1979: 4).

***Centris pocograndensis* Schrottky, 1902a: 578**
<http://hol.osu.edu/spmInfo.html?id=MZSP%20000004>
Holotype: ♂ 'Brazil, [São Paulo], Poço Grande [old farm near the town of Juquiá], *Centris pocograndensis* Schrottky'. *Current status: Centris (Melacentris) collaris* Lepeletier, 1841.

***Centris (Trachina) rupestris* Azevedo & Silveira, 2005: 45**
Paratypes: 1♀ 'Brasil, MG [Minas Gerais], Santana do Riacho, 02.vi.2001, B.A. Ribeiro [col.]' '*Chamae-*

scrita semaphora, S.[erra] do Cipó, 7801-23531 'Centris rupestris Azevedo & Silveira sp. nov., Paratypus'; 1♂ 'Brasil, MG[Minas Gerais], Santana do Riacho, 27.v.1998, R.M. Carmo [col.] 'Serra do Cipó, Campo rupestre, 2257-7107' 'Centris rupestris Azevedo & Silveira sp. nov., Paratypus'.

***Centris xanthocnemis perflava*
Schrottky, 1902a: 576**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000005>)

Holotype: ♂ '1.376 [Brazil, São Paulo, Jundiá, M. Beron col.] '97262'. *Current status*: *Centris (Melacentris) xanthocnemis* (Perty, 1833).

Epicharis Klug

***Epicharis cockerelli fulvohirta*
Schrottky, 1902a: 566**

Syntypes: 1♀ '17.874 [Brazil, São Paulo, Ipiranga, xii.1900, Dr. H.v. Ihering col.]; 8♀ and 3♂ '17.876 [Brazil, São Paulo, Jundiá, xi.1900, M. Beron col.]. *Current status*: *Epicharis (Epicharitides) iheringi* Friese, 1899.

***Emphorini*
*Diadasina Moure***

***Ptilothrix riparia* Ducke, 1907b: 82**

Paralectotypes: 1♂ '11.305 [Brazil, Maranhão, Codó, vi.1907, Ducke col.] 'Ptilothrix riparia Ducke, typ.[e]'; 1♀ '11.306 [Brazil, Maranhão, Caxias, 29.vi.1907, Ducke col.] 'Ptilothrix riparia Ducke, typ.[e]'. *Current status*: *Diadasina riparia* (Ducke, 1907). *Comments*: Paralectotype according to ype designation by Nascimento (1979: 9).

***Melitoma* Lepeletier & Serville**

***Podalirius ipomoeae* Ducke, 1907b: 84**

Paralectotype: 1♀ 'Brazil, Estado do Maranhão' [Brazil], Maranhão, Caxias, 02.vii.1907, Ducke [col.] 'Melitoma ipomoearum Ducke, typo'. *Current status*: *Melitoma ipomoearum* Ducke, 1912. *Comments*: Paralectotype according to designation by Nascimento (1979: 8).

***Ancyloscelis osmioides* Ducke, 1908: 71**

Syntypes: 1♀ 'Brazil, Estado do Ceará' [Brazil], Ceará, Quixadá, 04.vii.1908, Ducke [col.] 'Melitoma osmioides Ducke, typ.[e]'; 1♂ 'Brazil, Estado do Ceará' [Brazil], Ceará, Baturité, 29.vi.1908, Ducke [col.] 'Melitoma osmioides Ducke, typ.[e]'. *Current status*: *Melitoma osmioides* (Ducke, 1908).

Ericrocidini

***Cyphomelissa* Schrottky**

***Cyphomelissa pernigra* Schrottky, 1902a: 494**

Syntypes: 1♀ '17.769 [Brazil, São Paulo, Jundiá, ii.1900, M. Beron col.] '102.348'; 1♂ '17.770 [Brazil, São Paulo, Campinas, i.1901, A. Hempel col.] '102.349'. *Current status*: *Cyphomelissa diabolica* (Friese, 1900).

***Hopliophora* Lepeletier**

***Oxynedys beroni* Schrottky, 1902a: 492**

Syntypes: 1♂ '17.772 [Brazil, São Paulo, Campinas, i.1900, A. Hempel col.] '102.341'; 1♀ '1.387 [Brazil, São Paulo, Jundiá, 27.i.1901, M. Beron col.] 'Hopliophora velutina (Lep.) '102.345'; 1♀ '1.387' 'Hopliophora velutina, 1900 Friese det.' '102.345'. *Current status*: *Hopliophora velutina* (Lepeletier & Serville, 1825).

***Mesonychium* Lepeletier & Serville**

***Cyphomelissa garleppi* Schrottky, 1910a: 209**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000007>)

Holotype: ♀ 'Peru, Apurímac, [O. Garlepp col.] '102.370'. *Current status*: *Mesonychium garleppi* (Schrottky, 1910). *Comments*: In addition to the listed specimen, we found another female specimen with the following labels 'Peru, Apurímac' '102.371' although the original description makes no mention to the existence of more than one specimen in the type series. In this case, we consider the specimens with the label '102.370' as holotype because the word 'Type' written on the label by Schrottky.

Eucerini

***Alloscirtetica* Holmberg**

Tetralonia orientalis

Bertoni & Schrottky, 1910: 569

Syntype: 1♀ '[Uruguay], Monte-video [sic Montevideo]' 'Tetralonia orientalis Bert. & Schrottky, Type, C. Schrottky det. 1910' '96778' 'Alloscirtetica eophila, D. Urban det. 1969' 'Syntype'. *Current status*: *Alloscirtetica eophila* (Cockerell, 1918).

***Tetralonia eophila* Cockerell, 1918: 35**

Syntype: 1♀ '[Uruguay], Monte-video [sic Montevideo]' 'Tetralonia orientalis Bert. & Schrottky, Type, C. Schrottky det. 1910' '96778' 'Alloscirtetica eophila, D. Urban det. 1969' 'Syntype'. *Current status*: *Alloscirtetica eophila* (Cockerell, 1918).

Florilegus Robertson***Tetralonia quadrata* Bertoni & Schrottky, 1910: 572**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000025>)

Lectotype: ♂ 'Paraguay, Encarnacion, 04.ii.[19]05, C. Schrottky [col.], *Cucumis sativa*' '*Tetralonia quadrata* Bert. & Schrottky, Type, C. Schrottky det. 1910' '96648'. *Paralectotype*: 1♀ 'Paraguay, Asuncion, xii. [19]05, C. Schrottky [col.]' '*Tetralonia quadrata* Bert. & Schrottky, Type, C. Schrottky det. 1910' '96649'. *Current status*: *Florilegus (Florilegus) condignus* (Cresson, 1878). *Comments*: Lectotype designated by Urban (1970: 255).

Gaesischia* Michener, LaBerge & Moure**Tetralonia iheringi* Bertoni & Schrottky, 1910: 572**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000023>)

Holotype: ♀ '8.174 [Brazil, São Paulo, Ipiranga, 25.i.1907, H. Luederwaldt leg.' 'Type' '*Tetralonia iheringi* Bert. & Schrottky, C. Schrottky det. 1910' '96671' 'Holotypus'. *Current status*: *Gaesischia (Gaesischia) fulgurans* (Holmberg, 1903).

***Eucera patellicornis* Ducke, 1910: 94**

Paralectotype: 1♀ 'Brazil, Estado do Pará [Brazil, Pará], Obidos, 22.ii.1903, Ducke [col.]' '96639' '*Tetralonia patellicornis*, Ducke, typo'. *Current status*: *Gaesischia (Agaesischia) patellicornis* (Ducke, 1910). *Comments*: Paralectotype according to designation by Urban (1968: 88).

Megascirtetica* Moure & Michener**Macrocera mephistophelica* Schrottky, 1902b: 310**

Syntypes: 8♂ '1.395 [Brazil, São Paulo, Jundiaí, 27.i.1901, M. Beron col.]'. *Current status*: *Megascirtetica mephistophelica* (Schrottky, 1902).

Melissodes* Latreille**Melissodes (Eplectica) ecuadoria*****Bertoni & Schrottky, 1910: 577**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000017>)

Lectotype: ♀ 'Ecuador, Guayquil, 4.1902, Buchwald [col.]' '*Tetralonia ecuadoria*, 1909 Friese det.' '96644'. *Comments*: Lectotype designated by Urban (2000: 78).

Melissodes montevidensis**Bertoni & Schrottky, 1910: 577**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000018>)

Holotype: ♂ '[Uruguay], Montevideo' '*Melissodes montevidensis* sp. nov. Bert. & Schrottky, Type, C. Schrott-

ky det. 1910' '96694' 'Holotypus'. *Current status*: *Melissodes (Eplectica) tintinnans* (Holmberg, 1884).

Melissoptila* Holmberg**Melissodes (Epimelissodes) chubutana*****Bertoni & Schrottky, 1910: 581**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000014>)

Lectotype: ♂ '[Argentina], Chubut' '*Epimelissodes chubutana* Bert. & Schrottky, Type, C. Schrottky det. 1910'. *Paralectotype*: 1♀ same data as lectotype except additional label '96777'. *Current status*: *Melissoptila desiderata* (Holmberg, 1903). *Comments*: Lectotype and paralectotype designated by Urban (2000: 80).

***Tetralonia crassipes* Friese, 1906: 91**

Syntypes: 1♀ and 1♂ '18.434 [Argentina, Tucuman, 2000 m, Friese col.]' 'Argentina, Tucuman, 2000 m' '*Tetralonia crassipes*, 1907 Friese det.' 'Typus'. *Current status*: *Melissoptila tandilensis* Holmberg, 1884.

Melissodes (Epimelissodes) melochiae**Bertoni & Schrottky, 1910: 581**

Syntypes: 1♀ 'Paraguay, Encarnacion, 12.x.[19]06, C. Schrottky [col.]' '*Epimelissodes melochiae* Bert. & Schrottky, Type, C. Schrottky det. 1910' '96771'; 1♂ same label data except '96770'. *Current status*: *Melissoptila minarum* (Bertoni & Schrottky, 1910).

Melissodes (Epimelissodes) minarum**Bertoni & Schrottky, 1910: 582**

Syntypes: 2♂ '[Brazil], Minas Geraes [*sic* Gerais]' '*Epimelissodes minarum* Bert. & Schrottky, C. Schrottky det. 1910'. *Current status*: *Melissoptila minarum* (Bertoni & Schrottky, 1910).

***Eucera metallescens* Ducke, 1910: 89**

Syntype: 1♀ 'Brazil, Estado do Ceará [Brazil], Ceará, Serra de Baturité, 31.vii.[19]08, 700 m, Ducke [col.]' '*Tetralonia submetallescens* Ducke, typo' '96668'. *Current status*: *Melissoptila fiebrigi* Brèthes, 1909.

Melissoptila nudiventris**Bertoni & Schrottky, 1910: 591**

Syntype: 1♀ 'Paraguay, Puerto Bertoni, Alto Paraná, xii.' '*Melissoptila nudiventris* Bert. & Schrottky, co-type, C. Schrottky det. 1910' '96683'. *Current status*: *Melissoptila thoracica* (Smith, 1854).

***Melissoptila pauloensis* Schrottky, 1910b: 88**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000020>)

Holotype: ♂ '[Brazil], São Paulo, Campos do Jordão' '*Melissoptila pauloensis* sp. nov., C. Schrottky det.

1910'. *Current status*: *Melissoptila thoracica* (Smith, 1854).

Melissodes (Epimelissodes) pseudogilva

Bertoni & Schrottky, 1910: 580

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000015>)

Holotype: ♂ '[Argentina], Neuquén, 1907, Dr. Lendl Adolf [col.]' '*Epimelissodes pseudogilva* Bert. & Schrottky, Type, C. Schrottky det. 1910' '96769'. *Current status*: *Melissoptila dama* (Vachal, 1904).

Melissoptila richardiae

Bertoni & Schrottky, 1910: 590

Syntype: 1♂ 'Paraguay, Alto Paraná, Puerto Bertoni' '*Melissoptila richardiae* Bert. & Schrottky, Co-type, C. Schrottky det. 1910' '96680'.

***Eucera uncicornis* Ducke, 1910: 95**

Paralectotype: 1♂ 'Brazil, Estado do Maranhão' '[Brazil], Maranhão, Codó, 21.vi.1907, Ducke [col.]' '*Tetralonia uncicornis* Ducke, typo' '96670'. *Current status*: *Melissoptila uncicornis* (Ducke, 1910). *Comments*: Paralectotype according to designation by Nascimento (1979: 5).

Melissoptila vulpecula

Bertoni & Schrottky, 1910: 589

Syntype: 1♂ '[Paraguay], Alto Paraná, Puerto Bertoni' '*Melissoptila vulpecula* Bert. & Schrottky, Co-type, C. Schrottky det. 1910' '96681'.

***Pachysvastra* Moure & Michener**

***Tetralonia beroni* Schrottky, 1913a: 706**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000022>)

Lectotype: ♀ '1.299 [Brazil, São Paulo, Jundiá, 28.xii.]' '*Tetralonia beroni* Schrottky, C. Schrottky det. 1910' '96656'. *Paralectotype*: 1♀ '1.299 [Brazil, São Paulo, Jundiá, 28.xii.]' '*Tetralonia beroni* Schrottky, C. Schrottky det. 1910' '96658'. *Current status*: *Pachysvastra leucocephala* (Bertoni & Schrottky, 1910). *Comments*: Lectotype and paralectotype designated by Urban (2000: 81).

***Peponapis* Robertson**

Melissodes catamarcensis

Bertoni & Schrottky, 1910: 575

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000016>)

Lectotype: ♀ '[Argentina], Catam[arca]' '*Melissodes catamarcensis* Bert. & Schrottky, C. Schrottky det. 1910' '96691'. *Paralectotype*: 1♀ same labels data as lectotype except '96690'. *Current status*: *Peponapis fer-*

vens (Smith, 1879). *Comments*: Lectotype designated by Urban (2000: 80).

***Svastra* Holmberg**

Melissodes venturii

Bertoni & Schrottky, 1910: 575

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000019>)

Holotype: ♀ '[Argentina, Buenos Aires], Bahía Blanca, 17.x.1899' '*Melissodes venturii* Bert. & Schrottky, Type, C. Schrottky det. 1910' '96692' 'Holotypus'. *Current status*: *Svastra (Svastra) detecta* Holmberg, 1884.

***Tetralonia flavitarsis bicincta* Friese, 1906: 91**

Syntypes: 1♂ '18.435 [Argentina, xi.1904, Friese col.]' 'Argentini [*sic* Argentina], 21.11.1904' '*Tetralonia flavitarsis bicincta*, 1907 Friese det.' 'Typus' '96783'; 1♀ '18.435' '[Argentina], Mendoza, xii' '*Tetralonia flavitarsis bicincta*, 1907 Friese det.' 'Typus' '96784'. *Current status*: *Svastra (Svastra) flavitarsis* (Spinola, 1851).

***Thygater* Holmberg**

***Tetralonia luederwaldti* Schrottky, 1910b: 78**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000024>)

Holotype: ♀ '14.815 [Brazil, São Paulo, Campos do Jordão, 02.iii.1906, H. Luederwaldt col.]' '*Tetralonia luederwaldti* sp. nov., C. Schrottky det. 1910' '96717'. *Current status*: *Thygater (Nectarodiaeta) luederwaldti* (Schrottky, 1910).

Thygater arechavaletae

Bertoni & Schrottky, 1910: 586

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000030>)

Lectotype: ♂ '[Uruguay], Montevideo' '*Thygater arechavaletae* Bert. & Schrottky, Type, C. Schrottky det. 1910' '96738'. *Paralectotype*: 1♀ 'R.[epublica] O.[riental] del Uruguay' '*Thygater arechavaletae* Bert. & Schrottky, Co-type, C. Schrottky det. 1910' '96739'. *Current status*: *Thygater (Thygater) analis* (Lepelletier, 1841). *Comments*: Lectotype designated by Urban (2000: 83).

Exomalopsini

***Exomalopsis* Spinola**

***Exomalopsis campestris* Silveira, 1996: 83**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000009>)

Holotype: ♀ 'Brasil, MG[Minas Gerais], Uberlândia, 15.vi.[19]93, G.A.R. Melo [col.]' 'Holotypus, *Exomalopsis campestris* Silveira'. *Paratype*: 1♂ 'Brasil, São Paulo, Batatais, x.1943, (Stafuzza) [col.]' 'Para-

type, *E. (Exomalopsis) campestris* Silveira'. *Current status: Exomalopsis (Exomalopsis) campestris* Silveira, 1996.

***Exomalopsis elephantopodis* Schrottky, 1909b: 279**
Syntype: 1♀ 'Paraguay, Alto Paraná, Puerto Bertoni, 25.iv.1909, Schrottky col.' '14.824 [Paraguay, Alto Paraná, Puerto Bertoni, 25.iv.1909, Schrottky col.]'. *Current status: Exomalopsis (Exomalopsis) tomentosa* Friese, 1899.

Exomalopsis elephantopodos minor

Schrottky, 1910b: 89

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000010>)

Holotype: ♀ '14.825 [Brazil, São Paulo, São Paulo, Ipiranga, 02.ix.1907, H. Luederwaldt coll., on flowers of *Rosa setigera*] '96879' 'Brasil, SP[São Paulo], S.[São] Paulo, Ipiranga, 02.ix.1907, Luederwaldt [col.], flores de *Rosa setigera*' *Exomalopsis elephantopodos minor* subsp. nov., Schrottky det. 1910' 'Holotypus *Exomalopsis elephantopodis minor* Schrottky'. *Current status: Exomalopsis (Exomalopsis) minor* Schrottky, 1910.

***Exomalopsis fulvipennis* Schrottky, 1910b: 88**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000011>)

Holotype: ♀ '14.817 [Brazil, São Paulo, São Paulo, Ipiranga, 02.ix.1907, H. Luederwaldt coll., Typo, on flowers of *Rosa setigera*] '96872' 'Type' *Exomalopsis fulvipennis* sp. nov. C. Schrottky det. 1910' 'Brasil, SP[São Paulo], S.[São] Paulo, Ipiranga, 02.ix.1907, H. Luederwaldt col.' 'Holotypus *Exomalopsis fulvipennis* Schr'. *Current status: Exomalopsis (Exomalopsis) fulvipennis* Schrottky, 1910.

***Exomalopsis ypirangensis* Schrottky, 1910b: 89**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000012>)

Holotype: ♀ '14.823 [Brazil, São Paulo, São Paulo, Ipiranga, 02.ix.1907, H. Luederwaldt col., on flowers of *Rosa setigera*] 'Type' *Exomalopsis ypirangensis* sp. nov., C. Schrottky det. 1910' 'Brasil, SP[São Paulo], São Paulo, Ipiranga, 02.ix.1907, H. Luederwaldt col.' 'Holotypus, *Exomalopsis ypirangensis* Schrottky'. *Current status: Exomalopsis (Exomalopsis) ypirangensis* Schrottky, 1910.

Nomadini

***Odyneropsis* Schrottky**

***Odyneropsis holosericea* Schrottky, 1902a: 433**

Syntypes: 1♀ and 1♂ '1.386 [Brazil, São Paulo, São Paulo, Ipiranga, ii.1901, H. Ihering col.]' 'Tipo'. *Current status: Odyneropsis armata* (Friese, 1900).

***Triepeolus* Robertson**

***Epeolus osiriformis* Schrottky, 1910a: 208**

Syntype: 1♂ 'Puerto Bertoni, Alto Paraná' 'Paraguay, [Alto Paraná, Puerto Bertoni], 22.iv.1909' *Epeolus osiriformis* Schrottky, Type, C. Schrottky det. 1910' '102.272'. *Current status: Triepeolus osiriformis* (Schrottky, 1910).

Tapinotaspidini

***Caenomada* Ashmead**

***Epicharis unicalcarata* Ducke, 1908: 73**

Paralectotype: 1♂ 'Brazil, Estado do Ceará' '[Brazil], Ceará, Baturité, 26.vi.1908, Ducke [col.]' '*Chacoana unicalcarata*, typo' '96954'. *Current status: Caenomada unicalcarata* (Ducke, 1908). *Comments: Paralectotype according to designation by Nascimento* (1979: 4).

***Lophopedia* Michener & Moure**

***Lophopedia fulviventris* Aguiar, 2009: 16**

Paratype: 1♂ 'Brasil, São Paulo, Ubatuba, Parque Estadual da Serra do Mar, N.[ucleo] Pinciguaba, 600 m, Malaise, 11-14.i.2006, E.F. Santos & C.F. Scott-Santos [col.]' 'Paratype, *Lophopedia fulviventris*, Aguiar'.

***Tetrapedia pygmaea* Schrottky, 1902a: 544**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000029>)

Lectotype: ♂ '1.347 [Brazil, São Paulo, São José do Rio Pardo, Schrottky col.]' '96937' '1.347 [same data], *Tetrapedia pygmaea* Schrott.[Schrottky], S.[ão] J.[osé] D.[o] R.[io] Pardo (Est.[ado] S.P.[São Paulo]), Ducke rev. [19]13' 'Lectotipo, *Tetrapedia pygmaea* Schrottky, 1902, designado por A.J.C. Aguiar & G. Melo, 2005'. *Current status: Lophopedia pygmaea* (Schrottky, 1902). *Comments: Lectotype designated by Aguiar & Melo* (2005: 32).

***Monoeca* Lepeletier & Serville**

***Pachycentris lanei* Moure, 1944: 110**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000021>)

Holotype: ♂ 'Holotipo' '[Brazil, São Paulo], Monte Alegre, Fazenda Sta.[Santa] Maria, Alt.[itude] 1.100 mts., 24-30.xi.1942, F. Lane col.' '*Pachycentris lanei* sp. nov., Pe. J.S. Moure det. 1943'. *Paratypes*: 3♂ '[Brazil, São Paulo], Monte Alegre, Fazenda Sta. [Santa] Maria, Alt.[itude] 1.100 mts., 24-30.xi.1942, F. Lane col.' '*Pachycentris lanei* sp. nov., Pe. J.S. Moure det. 1943' 'Paratipo'. *Current status: Monoeca lanei* (Moure, 1944).

***Chacoana schizacantha* Ducke, 1912: 93**

Paralectotype: 1♂ 'Brazil, Estado de Minas Ger.[ais], Barbacena, 17.11.1905, Ducke [col.] '96953'. *Current status*: *Monoeca pluricincta* (Vachal, 1909). *Comments*: Paralectotype according to designation by Nascimento (1979: 4).

Paratetrapedia* Moure**Paratetrapedia atlantica*****Aguiar & Melo, 2011: 409**

Paratype: 1♀ 'Brasil, SP[São Paulo], Ubatuba, 31.iii.1962, K. Lenko col.' 'Paratipo, *Paratetrapedia atlantica*, Aguiar & Melo, 2006'.

Paratetrapedia basilaris**Aguiar & Melo, 2011: 386**

Paratype: 1♂ 'Brasil, Pará, Alter do Chão, 19.ix.1969, Exp. Perm. Amaz.' 'Paratipo, *Paratetrapedia basilaris*, Aguiar & Melo, 2006'.

Paratetrapedia flavifrons**Aguiar & Melo, 2011: 398**

Paratypes: 2♀ 'Brasil, Amazonas, Novo Airão, 02°38.439'S/60°50.407'S, 12.xii.2007, R. Gonçalves leg.' 'Paratype, *Paratetrapedia flavifrons*, Aguiar & Melo'; 1♂ '[Brazil], PA[Pará], BR-14, km 93, Belém-Brasília, viii-x.1959, Exp.[edição] Dep.[artamento] [de] Zool.[ogia]' 'Paratipo, *Paratetrapedia flavifrons*, Aguiar & Melo, 2006'.

***Tetrapedia bimaculata* Schrottky, 1902a: 547**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000026>)

Holotype: ♂ '17.840 [Brazil, Jundiaí, xi.1900, Schrottky col.] 'bimaculata' '96914' '*Tetrapedia bimaculata* Schrottky 1902, Holotypus'. *Current status*: *Paratetrapedia volatilis* (Smith, 1879).

***Tetrapedia fuliginosa* Schrottky, 1902a: 551**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000027>)

Lectotype: ♂ '17.842 [Brazil, São Paulo, Vitória, Botucatu, 20.vii.1900, A. Hempel col.] '96935' 'Lectotipo, *Tetrapedia fuliginosa*, Schrottky, 1902, designado por A.J.C. Aguiar, 2006'. *Current status*: *Paratetrapedia volatilis* (Smith, 1879). *Comments*: Lectotype designated by Aguiar (*in* Moure *et al.* 2007: 626).

***Tetrapedia obsoleta* Schrottky, 1902a: 547**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000028>)

Holotype: ♂ '17.838 [Brazil, São Paulo, Jundiaí, xi.1889]' 'obsoleta 96918' '*Paratetrapedia obsoleta* (Schrottky, 1902), Holotypus, Pe. J.S. Moure det.

1987'. *Current status*: *Paratetrapedia fervida* (Smith, 1879).

Tropidopedia* Moure**Tropidopedia nigrita* Aguiar & Melo, 2007: 529**

Paratypes: 3♀ and 1♂ 'Brasil, MG[Minas Gerais], Serra do Caraça, xi.[1]961, 1880 m, Kloss, Lenko, Martins & Silva col.' 'Paratipo, *Tropidopedia nigrita* Aguiar & Melo, 2006'; 1♀ 'Brasil, MG[Minas Gerais], Sta.[Santa] Barbara, Serra do Caraça, 23-25. xi.[1]960, Araujo e Martins [col.]' 'Paratipo, *Tropidopedia nigrita* Aguiar & Melo, 2006'.

Xylocopini***Ceratina* Latreille*****Ceratina aspera* Schrottky, 1902a: 484**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000006>)

Holotype: ♂ '17.764 [Brazil, São Paulo, Jundiaí, i.1900, M. Beron col.]' '*Ceratina aspera*, Holotypus, M. Pe. J.S. Moure 1986'. *Current status*: *Ceratina (Crewella) aspera* Schrottky, 1902.

***Ceratina fulvofasciata* Ducke, 1908: 32**

Paralectotype: 1♀ 'Perú amazonico' '[Peru], Iquitos, 13.viii.1906, Ducke [col.]' '*Ceratina fulvofasciata* Ducke, typ.[e]' '97483'. *Current status*: *Ceratina (Ceratinula) fulvofasciata* Ducke, 1908. *Comments*: Paralectotype according to designation by Nascimento (1979: 3).

***Ceratina huberi* Friese, 1910: 701**

Syntypes: 1♀ '[Brazil], Pará, 15.xi.[19]99, Ducke [col.]' '*Ceratina huberi* Ducke, Typ.[e]'; 1♂ '[Brazil], Pará, 25.xi.[19]99, Ducke [col.]' '*Ceratina huberi* Ducke, Typ.[e]'. *Current status*: *Ceratina (Crewella) huberi* Friese, 1910.

***Ceratina oxalidis* Schrottky, 1907b: 471**

Syntypes: 1♀ '5.326 [Paraguay, Villa Encarnación, 28.vii.1905, co-type]' '*Ceratina oxalidis* Schrottky' '97484'; 1♂ '5.326 [Paraguay, Villa Encarnación, 28.vii.1905, co-type]' '*Ceratina oxalidis* Schrottky, co-type' '97485'. *Current status*: *Ceratina (Ceratinula) oxalidis* Schrottky, 1907.

***Ceratina oxalidis piracicabana* Schrottky, 1910d: 86**

Holotype: ♀ '6.699 [Brazil, São Paulo, Piracicaba, xi.1906]' 'Typus' '*Ceratina oxalidis piracicabana* Schrottky'. *Current status*: *Ceratina (Ceratinula) pi-*

racicabana Schrottky, 1910. *Comments*: Only the pin and labels, the specimen is absent.

***Ceratina stilbonota* Moure, 1941: 73**

Paratype: 1♀ [Brazil], Paraná, Curitiba [now Curitiba], i.1939, coll. Claretiano 'Paratypus' '*Ceratina stilbonota* sp. nov., Pe. J.S. Moure det. 1940' '97464'. *Current status*: *Ceratina (Rhysoceratina) stilbonota* Moure, 1941.

***Ceratina sclerops* Schrottky, 1907b: 472**

Syntype: 1♀ '17.761 [Paraguay]' '*sclerops*, co-type' '97489'. *Current status*: *Ceratina (Ceratinula) sclerops* Schrottky, 1907.

***Ceratina volitans* Schrottky, 1907b: 473**

Syntype: 1♀ '17.762 [Paraguay]' '*Ceratina volitans* Schrottky, co-type' '97460'. *Current status*: *Ceratina (Rhysoceratina) volitans* Schrottky, 1907.

***Xylocopa* Latreille**

***Xylocopa bambusae* Schrottky, 1902a: 475**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000031>)
Holotype: ♂ '17.757 [Brazil, Rio Grande do Sul, H. Ihering col.]' 'Tipo' 'Holotype, *Xylocopa bambusae* Schrottky, 1902'. *Current status*: *Xylocopa (Xylocospila) bambusae* Schrottky, 1902.

***Xylocopa chrysopoda* Schrottky, 1902a: 475**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000032>)
Holotype: ♂ '17.759 [Brazil, São Paulo, Jundiá, 1900, O. Dreher col.]' 'Tipo' 'Holotype, *Xylocopa chrysopoda* Schrottky, 1902'. *Current status*: *Xylocopa (Ioxylocopa) chrysopoda* Schrottky, 1902.

***Xylocopa crotalariae* Schrottky, 1902a: 472**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000033>)
Holotype: ♀ '1.296 [Brazil, São Paulo, Jundiá, M. Beron col.]' 'Holotype, *Xylocopa crotalariae* Schrottky, 1902'. *Current status*: *Xylocopa (Schonherria) macrops* Lepeletier, 1841.

Xylocopa (Monoxylocopa) macambirae

Zanella & Silva, 2010: 62

Paratypes: 1♀ 'Brasil, Pernambuco, Buíque, Pq. [Parque] Nacional Catimbau, 28.xi.2007, Maise Silva [col.]' 'L112, 1213, *Encholirium spectabile*, ninho na haste'; 1♀ 'Brasil, Pernambuco, Buíque, Pq. [Parque] Nacional Catimbau, 28.vii.2006, Maise Silva [col.]' 'L112, 1213, *Encholirium spectabile*, ninho na haste'; 1♀ 'Brasil, Pernambuco, Buíque, Pq. [Parque] Nacional Catimbau, 25.viii.2007, Maise Silva [col.]' 'L112, 1213, *Encholirium spectabile*, ninho na haste'.

**Colletinae
Colletini
Colletes Latreille**

Colletes rufipes meridionalis

Schrottky, 1902a: 344

Syntypes: 3♀ '17.585 [Brazil, Rio Grande do Sul, H. Ihering col.]'. *Current status*: *Colletes meridionalis* Schrottky, 1902.

***Colletes ornatus* Schrottky, 1902a: 345**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000034>)

Holotype: ♀ '17.586 [Brazil, São Paulo, Jundiá, i.1900, M. Beron col.]' '100.075'.

**Diphaglossini
Ptiloglossa Smith**

***Ptiloglossa aenigmatica* Moure, 1945: 166**

Holotype: ♀ '1.343 [Brazil, São Paulo, Jundiá, i.1901, M. Beron col.]' 'Holotipo' '100.123'.

***Megacilissa obscura* Schrottky, 1902a: 412**

Holotype: ♀ '17.604 [Brazil, São Paulo, Jundiá, 28.i.1900, M. Beron col.]' '100.133'. *Current status*: *Ptiloglossa olivacea* (Friese, 1898).

**Hylaeini
Hylaeus Fabricius**

***Hylaeus alampes* Moure, 1942: 293**

Paratype: 1♀ [Brazil], Mato Grosso [do Sul], Salobra, 27-31.i.1941, F. Lane col.' 'Paratypus'.

***Prosopis brasiliensis* Schrottky, 1910c: 134**

Syntype: 1♂ '14.666 [Brazil, São Paulo, Piracicaba, xi.1906, J. Lima col.]' '*Prosopis brasiliensis* Schrottky' '100.004'. *Current status*: *Hylaeus brasiliensis* (Schrottky, 1910).

***Prosopis exigua* Schrottky, 1902a: 341**

Syntype: 1♂ '17.580 [Brazil, São Paulo, Botucatu, vii.1900, A. Hempel col.]' '100.010'. *Current status*: *Hylaeus exiguus* (Schrottky, 1902).

***Prosopis femoralis* Schrottky, 1902a: 339**

Syntypes: 2♂ '17.581 [Brazil, São Paulo, Botucatu, vii.1900, A. Hempel col.]'. *Current status*: *Hylaeus femoralis* (Schrottky, 1902).

***Prosopis gracillima* Schrottky, 1902a: 340**

Syntype: 1♀ '17.578 [Brazil, São Paulo, Botucatu]' '*Hylaeus gracillimus*, (Schr.[ottky], 1902), Holotypus,

n.c.' '100.024'. *Current status: Hylaeus (Hylaeopsis) gracillimus* (Schrottky, 1902).

***Prosopis guaranítica* Schrottky, 1906: 10**

Syntype: 1♂ '5.334 [Paraguay, Encarnación, 1906]' '*Prosopis guaranítica* Schrottky co-type' '100.029'. *Current status: Hylaeus guaraniticus* (Schrottky, 1906).

***Prosopis polybioides* Schrottky, 1906: 9**

Syntype: 1♀ '5.332 [Paraguay, Encarnación, 1906]' '*Prosopis polybioides* Schrottky co-type!' '100.052'. *Current status: Hylaeus polybioides* (Schrottky, 1906).

***Prosopis stenops* Schrottky, 1910c: 136**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000036>)
Holotype: ♂ '14.669 [Brazil, São Paulo, Piracicaba, 1906]' '100.054'. *Current status: Hylaeus stenops* (Schrottky, 1910).

***Prosopis tricolor* Schrottky, 1906: 18**

Syntype: 1♂ '5.336 [Paraguay, Villa Encarnacion, 1906, Schrottky coll., co-type]' 'tricolor co-type' '100.056'. *Current status: Hylaeus (Hylaeopsis) tricolor* (Schrottky, 1906).

Neopasiphacini
***Bicolletes* Friese**

***Panurginus decoloratus* Ducke, 1908: 66**

Paralectotype: 1♂ '[Brazil], Ceará, Baturité, 26.06.1908, Ducke [col.]'. *Current status: Bicolletes decolorata* (Ducke, 1908). *Comments*: Paralectotype according designation by Nascimento (1979: 8).

***Pasiphae cestri* Ducke, 1912: 77**

Paralectotype: 1♂ '[Brazil], Rio de Janeiro, Tijuca, 500 m, XI-1911, Ducke col.]' '100.166'. *Current status: Bicolletes iberingi* (Schrottky, 1910). *Comments*: Paralectotype according designation by Nascimento (1979: 8).

Bicolletes tauraphilus

Laroca & Almeida, 2005: 130

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000095>)
Holotype: ♂ 'Brasil, PR [Paraná], Curitiba, 17.ix.1994, S. Laroca leg.' 'Coletado em *Vassobia breviflora* (Sendtn.) Hunz, 1977' 'Holótipo *Bicolletes tauraphilus* Laroca & Almeida, 2004'. *Paratype*: 1♀ 'Brasil, PR [Paraná], Curitiba, 08.x.1994, S. Laroca leg.' 'Coletado em *Vassobia breviflora* (Sendtn.) Hunz, 1977' 'Parátipo *Bicolletes tauraphilus* Laroca & Almeida, 2004'. *Current status: Bicolletes tauraphila* Laroca & Almeida, 2005.

Protodiscelis Brèthes, 1909

***Panurginus alismatis* Ducke, 1908: 66**

Paralectotypes: 1♀ 'Brazil, Estado do Ceará' '[Brazil], Ceará, Quixadá, 08-07-1908, Ducke [col.]' '*Pasiphae alismatis* Ducke, Typ.[e]' '100.152'; 1♂ 'Brazil, Estado do Ceará' '[Brazil], Ceará, Quixadá, 08-07-1908, Ducke [col.]' '*Pasiphae alismatis* Ducke, Typ.[e]'. *Current status: Protodiscelis alismatis* (Ducke, 1908). *Comments*: Paralectotypes according to designation by Nascimento (1979: 7).

***Protodiscelis echinodori* Melo, 1996: 98**

Paratypes: 1♀ 'Brasil, MG [Minas Gerais], Viçosa, 30/11/[19]91, Lima, N.A.S. [col.]'; 1♂ and 2♀ same labels data except collected in 17/11/[19]93; 2♀ 'Brasil, MG[Minas Gerais], Viçosa, 30/12/[19]93, Vieira, M.F.'.

Xeromelissini
***Chilicola* Spinola**

***Scapteroides cuphae* Schrottky, 1905: 2**

Syntype: 1♂ '5.340 [Paraguay, Villa Encarnación]'. *Current status: Chilicola cuphae* (Schrottky, 1905).

Halictinae
Augochlorini
***Augochlora* Smith**

***Odontochlora cydippe* Schrottky, 1910d: 72**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000054>)
Holotype: ♀ '12.978 [Brazil, São Paulo, São Paulo, Anhandava, 1903, E. Garbe col.]'. *Current status: Augochlora (Augochlora) cydippe* (Schrottky, 1910).

***Augochlora (Augochlora) francisca* Schrottky, 1902a: 391**

Syntype: 1♀ '17.637 [Brazil, São Paulo, Jundiá, ix.1900, M. Beron col.]'.

***Augochlora cupraria* Friese, 1925: 6**

Syntype: 1♀ 'Ecuador, Guayaquil[Guayaquil], 4.1923, Buchwald [col.], *Curcubita*' '*Augochlora cupricollis* Fr., Friese det. [19]25' '102.922' '*Odontochlora cupricollis* (Fr.), Pe. J.S. Moure det. [19]40'. *Current status: Augochlora (Augochlora) cupraria* Friese, 1925.

***Odontochlora dolichocephala* Moure, 1941: 43**

Paratype: 1♀ '[Brazil, São Paulo], Guarulhos, ii.1940' 'Paratypus' '102.627'. *Current status: Augochlora (Augochlora) dolichocephala* (Moure, 1941).

***Augochlora microsticta* Moure, 1943a: 473**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000046>)

Holotype: ♀ '17.640 [Brazil, Amazonas, Manaus, Bicego col.]' 'Holotipo' '*Augochlora microsticta* sp. nov. Pe. J.S. Moure det. 1943'.

***Oxystoglossa pyrgo* Schrottky, 1910d: 75**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000057>)

Holotype: ♀ '12.980 [Brazil, São Paulo, Anhandava, 1903, E. Garbe col.]' 'Typus'. *Current status*: *Augochlora (Augochlora) pyrgo* (Schrottky, 1910).

***Oxystoglossa schrottkyi* Moure, 1940a: 57**

Paratype: 1♀ '[Brazil], Mato Grosso [do Sul], Bodoquena, 30.x.[19]38, F. Lane coll.'. *Current status*: *Augochlora (Augochlora) esox* (Vachal, 1911).

***Oxystoglossa semiramis* Schrottky, 1910d: 78**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000058>)

Holotype: ♀ '5.757 [Brazil, São Paulo, São Paulo, Ipiranga, 16.ix.1906, H. Luderwaldt col.]' 'Typus' '100.321'. *Current status*: *Augochlora (Oxystoglossella) iphigenia* Holmberg, 1886.

***Augochlora tantilla* Moure, 1943a: 471**

Paratypes: 1♀ 'Brasil, São Paulo, Ilha Seca, Com. I.O. Cruz, 18/26.ii.1940' 'Paratipo'; 1♀ '[Brazil, São Paulo], Ituverava, vi.1911, Garbe leg' 'Paratypus, *Augochlora tantilla* Pe. J.S. Moure 1943'; 5♀ '17.444 [Brazil, São Paulo, Ituverava, 1911, E. Garbe col.]' 'Paratipo'. *Current status*: *Augochlora (Augochlora) tantilla* Moure, 1943.

Augochlorella Sandhouse

***Augochlorella acarinata* Coelho, 2004: 291**

Paratype: 1♀ 'Brasil, MG[Minas Gerais], Viçosa, 23.iii.[19]87, E.F. Morato [col.]' 'N. 626/1/36'.

***Oxystoglossa ephyra* Schrottky, 1910d: 75**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000055>)

Holotype: ♀ '6.344 [Brazil, São Paulo, São Paulo, Ipiranga, 19.xi.1906, S.M. Torres col.]' 'Typus' '100.307'. *Current status*: *Augochlorella ephyra* (Schrottky, 1910).

***Augochlorella karankawa* Coelho, 2004: 307**

Paratypes: 1♀ and 1♂ '[USA], Texas, San Patricio Co., Welder Wildlife Refuge (8 mi NE Sinton), 11-12 July 1982, WJ Pulawski [col.]'.

***Augochlorella meridionalis* Coelho, 2004: 296**

Paratype: 1♀ 'Argentina, La Rioja, Iliar, February 1934, M. Gomez [col.]'.

***Augochlorella stenothoracica* Coelho, 2004: 298**

Paratype: 1♀ 'Brazil, Pará, Jacareacanga, Dec[ember] 1968, M. Alvarenga [col.]'.

***Augochlorella una* Coelho, 2004: 300**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000047>)

Holotype: ♀ 'Brazil, DF[Distrito Federal], Jardim Botânico, 23.viii.1996, RIP Freitas & GS Freitas [col.]' '1990'. *Paratype*: 1♀ [coated with gold] 'Brazil, DF[Distrito Federal], Reserva do IBGE, 14.viii.1996, RIP Freitas & GS Freitas [col.]'.

***Augochlorodes* Moure**

Augochlorodes vachali

Gonçalves & Melo, 2008: 1399

Paratype: 1♀ 'Brasil, SP[São Paulo], São José do Barreiro, Campo de Altitude, Serra da Bocaina, 20.xii.1999, Coletor: Leandro Freitas nº 407'.

***Augochloropsis* Cockerell**

Augochlora (Augochloropsis) aphrodite

Schrottky, 1902a: 376

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000037>)

Holotype: ♂ '17.619 [Brazil, São Paulo, Jundiá, i.1901, M. Beron col.]' '100.355'. *Current status*: *Augochloropsis smithiana* (Cockerell, 1900).

Augochlora (Glyptobasis) chloera

Moure, 1940a: 49

Paratype: 1♀ '[Brazil, Rio de Janeiro], Macaé [Macaé], x.1909, Garbe col.' 'Paratypus' '22.957'. *Current status*: *Augochloropsis chloera* (Moure, 1940).

Augochlora (Augochloropsis) circe

Schrottky, 1902a: 385

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000038>)

Holotype: ♀ '17.633 [Brazil, São Paulo, Jundiá, xi.1899, C. Schrottky col.]' '102.929'. *Current status*: *Augochloropsis cleopatra* (Schrottky, 1902).

Augochlora (Augochloropsis) cleopatra

Schrottky, 1902a: 384

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000039>)

Holotype: ♀ '12.097 [Brazil, São Paulo, Jundiá, 15.ix.1900, M. Beron col.]' '100.360'. *Current status*: *Augochloropsis cleopatra* (Schrottky, 1902).

Augochlora (Augochloropsis) cyanea

Schrottky, 1902a: 381

Syntypes: 1♀ '1.273 [Brazil, São Paulo, Jundiá, 12.xi.1900, C. Schrottky col.]' '100.334'; 1♀ same

labels data except '100.335'; 1♀ same labels data except '100.333'; 1♀ '[Brazil], E.[stado] S.[ão] Paulo, Jundiahy[Jundiaí], 08.i.1901, M. Beron lg[leg.]' '100.339'; 1♀ '[Brazil], E.[Estado] S.[ão] Paulo, Jundiahy[Jundiaí], 29.ix.1900, M. Beron lg[leg.]' '100.342'; 1♀ '[Brazil], E.[stado] S.[ão] Paulo, Jundiahy[Jundiaí], 31.i.[19]01, M. Beron lg[leg.]' '100.341'. *Current status: Augochloropsis cyanea* (Schrottky, 1902).

***Tetrachlora deianira* Schrottky, 1910d: 80**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000067>)

Holotype: ♀ '12.974 [Brazil, São Paulo, Campos do Jordão, xi.1905, Luderwaldt col.]' 'Typus' '100.359'. *Current status: Augochloropsis deianira* (Schrottky, 1910).

Augochlora (Augochloropsis) hecuba

Schrottky, 1902a: 380

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000040>)

Holotype: ♀ '1.041 [Brazil, São Paulo, São Paulo, Ipiranga, 15.iv.1902, Ihering col.]' '102.912'. *Current status: Augochloropsis semele* (Schrottky, 1902).

Augochlora (Pseudaugochloropsis) hypsipyle

Schrottky, 1909c: 215

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000044>)

Holotype: ♀ '12.700 [Brazil, São Paulo, São Paulo, Ipiranga, 19.xi.1906, H. Luderwaldt col.]' 'Typus' '102.848'. *Current status: Augochloropsis hypsipyle* (Schrottky, 1909).

Augochlora (Augochloropsis) iris

Schrottky, 1902a: 372

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000041>)

Holotype: ♀ '17.622 [Brazil, São Paulo, São Paulo, Ipiranga]' '100.375'. *Current status: Augochloropsis iris* (Schrottky, 1902).

Augochlora (Augochloropsis) liopelte

Moure, 1940a: 44

Paratype: 1♀ '[Brazil], Paraná, Curitiba [now Curitiba], Matto[Mato] Grego, 10.iv.[19]39, Coll. Claretiano leg' 'Paratypus'. *Current status: Augochloropsis liopelte* (Moure, 1940).

Augochlora (Augochloropsis) pereirai

Moure, 1940b: 469

Paratype: 1♀ '[Brazil], S.P.[São Paulo], Rio Claro, 16.x.1939, Coll. Claretiano' 'Paratypus' '102.813' '*Augochlora pereirai* sp. nov. Pe. J.S. Moure det. 1940'. *Current status: Augochloropsis aurifluens* (Vachal, 1903).

Augochloropsis terrestris* var. *prognatha

Moure, 1944: 106

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000049>)

Holotype: ♀ 'Brasil, São Paulo, Monte Alegre, 750 ms, Faz.[enda] Experimental, 14-27.x.1942, L. Trav. & Almeida [col.]' '104.434' 'Holotipo'. *Current status: Augochloropsis prognatha* Moure, 1944.

Augochlora (Pseudaugochloropsis) pandrosos

Schrottky, 1909c: 216

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000045>)

Holotype: ♀ '12.982 [Brazil, São Paulo, Avandava, 1903, E. Garbe col.]' '100.353'. *Current status: Augochloropsis pandrosos* (Schrottky, 1909).

Augochlora (Augochloropsis) semele

Schrottky, 1902a: 377

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000042>)

Holotype: ♀ '17.626 [Brazil, São Paulo, São Paulo, Ipiranga, iii.1900, C. Schrottky col.]' '100.361'. *Current status: Augochloropsis semele* (Schrottky, 1902).

***Tetrachlora thiyas* Schrottky, 1910d: 79**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000068>)

Holotype: ♀ '6.410 [Brazil, São Paulo, Cubatão, Estação Raiz da Serra, 22.xi.1906, J. Lima col.]' 'Type' '100.358'. *Current status: Augochloropsis cockerelli* Schrottky, 1909.

***Caenaugochlora* Michener**

Caenaugochlora (Caenaugochlora)

***bennetti* Gonçalves & Engel, 2010: 73**

Paratypes: 1♀ and 1♂ 'Ecuador, Cuenca Azuay Prov. [ince], 13.iii.1965' 'L.E. Pena, collector'.

Caenaugochlora (Caenaugochlora) quichua

Gonçalves & Engel, 2010: 75

Paratypes: 1♀ and 1♂ 'Ecuador: Pich. above Tandapi, 08.ii.1983, 2300 m, Masner Sharker [col.]'; 1♂ 'Ecuador, A/uasi, 18.vi.1914, H.S. Parish [col.]'.

***Ceratalictus* Moure**

Oxystoglossa thalia pauloensis

Schrottky, 1910d: 78

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000059>)

Lectotype: ♀ '12.975 [Brazil, São Paulo, Campos do Jordão, 16.ii.1906, H. Luderwaldt coll.]' 'Typus' '100.318'. *Paralectotype*: 1♂ '12.988 [Brazil, São Paulo, Jundiaí, 14.x.1900, M. Beron col.]' 'Typus' '100.320' '*Oxystoglossa thalia pauloensis* Schrottky'. *Current status: Ceratalictus clonius* (Brèthes, 1909).

Comments: Lectotype and paralectotype designated by Moure (1950b: 313). According to Moure (1950b) and Coelho & Gonçalves (2010) the male specimen with number 12.988/100.320 is a species of *Augochlora*.

***Oxystoglossa theia* Schrottky, 1910d: 77**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000060>)

Lectotype: ♂ ‘11.966 [Brazil, São Paulo, São Paulo, Ipiranga, 16.xii.1902, H. Luderwaldt col.]’ ‘Type’ ‘100.267’. *Current status:* *Ceratalictus clonius* (Brèthes, 1909). *Comments:* Lectotype designated by Moure (1950b: 313).

***Chlerogella* Michener**

***Chlerogella cochabambensis* Engel, 2010: 9**

Paratype: 1♀ ‘Bolivia: Cochabamba, Cochabamba, 109 km E. Yungas (Cochabamba – Villa Tunari Rd.), 1480 m, 17°8’50”S/65°42’29”W, 01-06.ii.1999, F. Genier [col.], Bol1G99 027, ex. flight intercept trap’.

***Corynurella* Eickwort**

***Corynurella cognata* Gonçalves, 2010: 99**

Paratypes: 1♀ and 1♂ ‘[Brazil], SP[São Paulo], Salesópolis, Est.[ação] Biol.[ógica] Boracéia, 02.ii.1994, W. Wilms col.’; 1♀ ‘Brasil, SP[São Paulo], São Paulo, Juréia, 20.iii.[19]82, F.R.N.K. col., Costão, 15:00’; 1♀ ‘Brasil, SP[São Paulo], Salesópolis, E.B.B.[Estação Ecológica Boracéia], 05.vii-06.ix.1997, C.I. Yamamoto col., Malaise – laboratório’.

***Halictillus* Moure**

***Halictillus verissimus* Gonçalves, 2010: 754**

Paratypes: 1♀ and 1♂ ‘Chile, Ñuble, Chillán area, “Shangri lá”, Las Trancas, E. Recinto, January 19-22, 1979, 1600 m., L.E. Peña [col.]’.

***Megalopta* Smith**

***Megalopta guimaraesi* Santos & Silveira, 2009: 10**

Paratypes: 3♀ ‘Brasil, MG[Minas Gerais], Morro da Garça, 18-20.x.1964, Exp.[edição] Dep.[artamento] [de] Zool.[ogia]’.

***Megalopta piraha* Santos & Melo 2015: 615**

Paratypes: 1♂ ‘Brasil, AM (Amazonas), Taracúá (Rio Uapés), viii.1964, Pereira & Machado [col.]’; 1♂ ‘[Brazil], Pará, Canindé, Rio Gurupi, iv.1963, B. Malkin [col.]’.

***Megommation* Moure**

Megalopta (Megaloptella) ipomoeae

Schrottky, 1912: 271

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000053>)

Lectotype: ♂ ‘17.644 [Brazil, Minas Gerais, Mar de Espanha, vi.1908, Zikán col.]’. *Paralectotype:* 1♀ ‘17.644 [same data as lectotype]’. *Current status:* *Megommation insigne* (Smith, 1853). *Comments:* Lectotype designated by Gonçalves & Santos (2010: 60).

***Neocorynura* Schrottky**

Augochlora (Pseudaugochloropsis) erinnys

Schrottky, 1910d: 81

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000043>)

Holotype: ♀ ‘9.944 [Brazil, São Paulo, Cubatão, Estação Raiz da Serra, 30.ix.1907, H. Luderwaldt col.]’ ‘Type’ ‘100.439’. *Current status:* *Neocorynura erinnys* (Schrottky, 1910).

***Corynura oiospermi* Schrottky, 1909d: 145**

Syntypes: 1♀ ‘12.713[Paraguay, 07.ii.1909, C. Schrottky col.]’; 1♂ same data except ‘100.433’. *Current status:* *Neocorynura oiospermi* (Schrottky, 1909).

***Paracorynurella* Gonçalves**

***Paracorynurella betoi* Gonçalves, 2010: 106**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000061>)

Holotype: ♂ ‘Brasil, MA[Maranhão], Balsas, Gerais de Balsas, Córrego MA-6, 01-07.xi.1999, Malaise, 08°31’32”S/46°36’18”[W], Brandão, Yamamoto & Dietz [col.]’. *Paratype:* 1♀ same labels data as holotype.

***Paroxystoglossa* Moure**

***Oxystoglossa jocasta* Schrottky, 1910d: 74**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000056>)

Holotype: ♀ ‘12.971 [Brazil, São Paulo, Campos do Jordão, xi.1905, H. Luderwaldt col.]’ ‘Typus’ ‘100.266’. *Current status:* *Paroxystoglossa jocasta* (Schrottky, 1910).

***Pseudaugochlora* Michener**

***Pseudaugochlora callaina* Almeida, 2008: 14**

Paratypes: 1♀ ‘Brasil, São Paulo, Barueri, 09.vii.1966, K. Lenko col.’; 1♀ ‘Brasil, São Paulo, Barueri, 17.iii.1962, K. Lenko col.’; 1♀ ‘Brasil, São Paulo, Barueri, 02.i.1966, K. Lenko col.’; 1♀ ‘Brasil, SP[São Paulo], São Sebastião, praia Brava, 30.xii.1989, M.G. Oliveira col.’; 1♀ ‘[Brasil], E.[stado] de S.[ão] Paulo,

Juquiá, Faz.[enda] Poço Grande, 27.iv.1948, F. Lane col.; 1♀ '17.629[Brazil, Paraná, 1910, C. Schrott-ky col.]' 'Pto[Puerto] Mojoli, Guayra, Paraná, Br, 31.x.1910' '100.415'; 1♂ '[Brazil], Paraná, Pto Bri-tannia, 09.xi.1910' '17.629' '100.416'.

***Pseudaugochlora flammula* Almeida, 2008: 22**

Paratype: 1♀ 'Brasil, Mato Grosso, Corumbá, Serra do Urucum, 27.xi.1960, K. Lenko col.'

***Pseudagapostemon* Schrottkey**

***Pseudagapostemon paulista* Schrottkey, 1910d: 82**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000062>)

Holotype: ♂ '2.510 [Brazil, São Paulo, São Paulo, Vila Mariana, 23.iii.1906, Lima col.]' 'Typus' '100.217'. *Current status*: *Pseudagapostemon (Pseudagapostemon) ochromerus* (Vachal, 1904).

Halictini

***Dialictus* Robertson**

***Augochloropsis carioca* Schrottkey, 1910d: 79**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000048>)

Holotype: ♀ '2.841 [Brazil, Rio de Janeiro, Itatiaia, iv.1906, H. Luderwaldt col.]' 'Typus' '100.407'. *Current status*: *Dialictus carioca* (Schrottkey, 1910).

***Tetrachlora creusa* Schrottkey, 1910d: 80**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000066>)

Holotype: ♀ '9.654 [Brazil, São Paulo, São Paulo, Ipiranga, 06.ix.1907, H. Luderwaldt coll.]' 'Typus' '100.410'. *Current status*: *Dialictus creusa* (Schrottkey, 1910).

***Halictomorpha mottai* Moure, 1940b: 473**

Paratypes: 5♀ '[Brazil], S.P.[São Paulo], Chacara Parizo, x.1939, Coll. Claretiano' 'Paratypus'; each one with respective additional labels '100.715', '100.719', '100.720', '100.721', and '100.723'. *Current status*: *Dialictus picadensis* (Strand, 1910).

***Halictomorpha opaca* Moure, 1940b: 475**

Paratypes: 1♀ '[Brazil], Paraná, Curitiba [now Curitiba], Parolim, x.1939, Coll. Claretiano' 'Paratypus'; 1♀ same labels data except '20.v.1939'; 1♀ same labels data except '01.ix.1938'. *Current status*: *Dialictus opacus* (Moure, 1940).

***Gastrobaliectus pabulator* Schrottkey, 1910d: 84**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000050>)

Holotype: ♀ '12.985 [Brazil, São Paulo, São Paulo, Ipiranga, 02.ix.1907, H. Luderwaldt col.]' 'Ty-

pus' '100.448'. *Current status*: *Dialictus pabulator* (Schrottkey, 1910).

***Halictomorpha phaedra* Schrottkey, 1910d: 82**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000052>)

Holotype: ♀ '12.986[Brazil, São Paulo, São Paulo, Ipiranga, 02.ix.1907, H. Luderwaldt col.]' 'Typus' '100.408'. *Current status*: *Dialictus phaedrus* (Schrottkey, 1910).

***Halictomorpha travassosi* Moure, 1940a: 62**

Paratypes: 1♀ '[Brazil], Mato Grosso [do Sul], Bodo-quena, 30.x.[19]38, F. Lane col.' 'Instituto Oswaldo Cruz, Zona da N.O.B., 30.x.[1]938' 'Paratypus' '22.969'; 1♀ same labels data except '22.970'. *Current status*: *Dialictus travassosi* (Moure, 1940).

***Gastrobaliectus ypirangensis* Schrottkey, 1910d: 85**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000051>)

Holotype: ♀ '12.983 [Brazil, São Paulo, São Paulo, Ipiranga, 02.ix.1907, H. Luderwaldt col.]' 'Typus' '100.449'. *Current status*: *Dialictus ypirangensis* (Schrottkey, 1910).

***Caenobaliectus* Cameron**

***Augochlora (Augochloropsis) incerta* Schrottkey, 1902a: 386**

Holotype: ♀ '1.272 [Brazil, São Paulo, Botucatu, Vitoria, Hempel col.]'. *Current status*: *Caenobaliectus incertus* (Schrottkey, 1902). *Comments*: The type series consists only of a female holotype, however, there are three conspecific females with the same label information as described by Schrottkey. The specimens do not have any indicative of type in the labels, so it is unknown which of these were originally designated as the holotype. Besides the label '1.272', the three specimens have an additional label with respective numbers '100.398', '100.399', and '100.397'.

Caenobaliectus mourei

Almeida & Laroca, 2005: 136

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000096>)

Holotype: ♀ 'Brasil, PR [Paraná], Curitiba, 17.ix.1994, S. Laroca leg.' 'Holótipo *Caenobaliectus mourei* Almeida & Laroca, 2004'.

***Paragapostemon tessellatus* Moure, 1940a: 63**

Paratype: 1♀ '[Brazil], Paraná, Curitiba [Curitiba], Parolim, 29.ix.[19]38, coll Claretiano' 'Paratypus' '22.971'. *Current status*: *Caenobaliectus tessellatus* (Moure, 1940).

Habralictus Moure***Habralictus flavopictus* Moure, 1941: 62**

Paratypes: 1 ♀ [Brazil], S.P.[São Paulo], v.1939, Coll. Claretiano 'Paraypus' '102.716'; 1 ♂ same labels data except '102.718'.

Pseudagapostemon* Schrottky**Pseudagapostemon (Pseudagapostemon) anasimus* Cure, 1989: 252**

Paratypes: 1 ♀ [Brazil], DF[Distrito Federal], Res.[erva] Ecol.[ógica] IBGE, km 0 BR-251, 09-16.x.[19]81, 3A-75-8 m'; 1 ♀ same label data except '11-18.iv.[19]80, 3A-34-7'.

***Agapostemon arenarius* Schrottky, 1902a: 403**

Syntypes: 1 ♀ '1.269 [Brazil, São Paulo, Botucatu, Vitoria, 05.iii.1900, Hempel col.]' '100.207'; 1 ♀ same labels data except '100.213'; 1 ♂ same labels data except '100.196'. *Current status*: *Pseudagapostemon (Pseudagapostemon) arenarius* (Schrottky, 1902).

***Pseudagapostemon nasua* Schrottky, 1910d: 83**

Syntype: 1 ♂ '12.987 [Brazil, São Paulo, São Paulo, Ipiranga, i.1906, J. Lima col.]' 'Typus' '100.214'. *Current status*: *Pseudagapostemon (Pseudagapostemon) arenarius* (Schrottky, 1902).

Sphecodes* Latreille**Sphecodes brasiliensis* Schrottky, 1910b: 63**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000063>)

Holotype: ♀ '14.676 [Brazil, Minas Gerais, Caxambu, v.1906, R. Ihering col.]' 'Type' '100.195'.

***Temnosoma inornatum* Schrottky, 1902a: 351**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000065>)

Holotype: ♂ '17.614 [Brazil, São Paulo, Botucatu, Vitoria, x.1900, A. Hempel col.]' '100.205'. *Current status*: *Sphecodes inornatus* (Schrottky, 1902).

***Sphecodes minarum* Schrottky, 1910b: 63**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000064>)

Holotype: ♂ '2.533' 'Type!' '100.200'. *Comments*: The holotype is described from Minas Gerais (Brazil) although the number 2.533 is related to the locality of São Paulo (Brazil). There was probably a mistake in the labels, with the collection information of the type specimens depicting the number 2.553 [Brazil, Minas Gerais, Caxambu, v.1906, v. Ihering col.].

Megachilinae**Anthidiini*****Anthidium* Fabricius*****Anthidium latum***

Schrottky, 1902a: 447

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000070>)

Holotype: ♀ '18.114 [Brazil, São Paulo, Jundiá, 28.i.1900, M. Beron col.]' '100.209'.

Anthodioctes* Holmberg**Dianthidium vernoniae***

Schrottky, 1911: 14

Syntype: 1 ♀ '18.105 [Brazil, Paraná, Guaíra, Porto Majoli, xi.1910, C. Schrottky col.]' '102.249'. *Current status*: *Anthodioctes vernoniae* (Schrottky, 1911).

Dicranthidium* Moure & Urban**Hypanthidium gregarium***

Schrottky, 1905: 8

Syntypes: 1 ♀ '5.325 [Paraguay, Itapúa, Encarnación, 1904, C. Schrottky col.]' '102.163'; 1 ♂ same labels data except '102.164'. *Current status*: *Dicranthidium gregarium* (Schrottky, 1905).

Epanthidium* Moure**Dianthidium bruchi***

Schrottky, 1909c: 217

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000078>)

Holotype: ♂ [Argentina], Catamarca, iii.1908, Bruch [col.] '102.226'. *Current status*: *Epanthidium joergenseni* (Friese, 1908).

Hypanthidioides* Moure**Anthidium flavofasciatum***

Schrottky, 1902a: 448

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000069>)

Holotype: ♀ '18.102 [Brazil, São Paulo, São Paulo, Ipiranga, 12.xii.1900, Ihering col.]' '102.165'. *Current status*: *Hypanthidioides flavofasciata* (Schrottky, 1902).

Saranthidium* Moure & Hurd**Anthidium musciforme***

Schrottky, 1902a: 455

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000071>)

Holotype: ♀ '18.104 [Brazil, São Paulo, Jundiá, M. Beron col.]' '102.179'. *Current status*: *Saranthidium musciforme* (Schrottky, 1902).

Lithurgini
***Lithurgus* Berthold**

***Lithurgus huberi* Ducke, 1907b: 78**

Paralectotype: 1♂ [Brazil], Maranhão, Codó, 24.vi.1907, Ducke [col.] '11.307'. *Current status*: *Lithurgus huberi* Ducke, 1907. *Comments*: Paralectotype according to designation by Nascimento (1979: 6).

Megachilini
***Coelioxys* Latreille**

***Coelioxys aculeata* Schrottky, 1902a: 429**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000072>)
Holotype: ♀ '18.098 [Brazil, Amazonas, Manaus, Bicego col.]. *Current status*: *Coelioxys (Acrocoelioxys) aculeata* Schrottky, 1902.

***Coelioxys amazonica* Schrottky, 1902a: 426**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000073>)
Holotype: ♀ '18.091 [Brazil, Amazonas, Manaus, 1899, Bicergo col.]. *Current status*: *Coelioxys (Acrocoelioxys) amazonica* Schrottky, 1902.

***Coelioxys beroni* Schrottky, 1902a: 425**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000074>)
Holotype: ♂ '18.090 [Brazil, São Paulo, Jundiá, i.1900, M. Beron col.]. *Current status*: *Coelioxys (Glyptocoelioxys) beroni* Schrottky, 1902.

***Coelioxys chrysocephala* Schrottky, 1902a: 428**

Syntypes: 1♀ '18.096 [Brazil, São Paulo, Jundiá, 01.xi.1900, C. Schrottky col.]; 2♂ '1.408 [Brazil, São Paulo, Botucatu, Vitoriana, 25.vii.1900, Hempell col.]. *Current status*: *Coelioxys (Acrocoelioxys) tolteca* Cresson, 1878.

***Coelioxys leporina* Schrottky, 1909e: 261**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000075>)
Holotype: ♀ 'Paraguay, Encarnación, C. Schrottky [col.] 'Typus'. *Current status*: *Coelioxys (Acrocoelioxys) pygidialis* Schrottky, 1902.

***Coelioxys pygidialis* Schrottky, 1902a: 426**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000076>)
Holotype: ♀ '18.093 [Brazil, São Paulo, Jundiá, 19.xi.1899, C. Schrottky col.] 'Brasil, [São Paulo], Jundiáhy [now Jundiá], 19.xi.1899, Schrottky [col.]. *Current status*: *Coelioxys (Acrocoelioxys) pygidialis* Schrottky, 1902.

***Coelioxys scutellaris* Schrottky, 1902a: 424**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000077>)
Holotype: ♀ '18.088 [Brazil, São Paulo, São Paulo, Ipiranga, 27.iii.1900, C. Schrottky col.]. *Current*

status: *Coelioxys (Glyptocoelioxys) scutellaris* Schrottky, 1902.

***Megachile* Latreille**

***Megachile laeta anisitsi* Schrottky, 1908: 237**

Syntype: 1♀ '12.875 [Brazil, São Paulo, Jundiá, 25.i.1900, M. Beron col.] 'Cotipo' '102.086'. *Current status*: *Megachile (Leptorachina) laeta* Smith, 1853.

***Megachile aureiventris* Schrottky, 1902a: 441**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000079>)
Holotype: ♀ '[Brazil], E.[stado] de São Paulo, Jundiáhy [now Jundiá], 1897, [Schrottky col.], *Megachile auriventris* [sic aureiventris] Schrottky, Type' '102.059' 'Holotipo'. *Current status*: *Megachile (Leptorachis) aureiventris* Schrottky, 1902.

***Megachile bernardina* Schrottky, 1913b: 209**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000080>)
Holotype: ♂ '18.151 [Brazil, São Paulo, Jundiá, xi.1900, M. Beron col.] 'Cotipo' '102.162'. *Current status*: *Megachile (Acentron) eburnipes* Vachal, 1904.

***Megachile capra* Schrottky, 1913b: 214**

Holotype: ♂ '18.155 [Brazil, São Paulo, Jundiá, i.1900, M. Beron col.] 'Holotipo' '102.067'. *Current status*: *Megachile (Leptorachis) aureiventris* Schrottky, 1902.

***Megachile coelioxoides* Schrottky, 1909c: 220**

Syntypes: 1♀ '12.970 [Paraguay, Hohenau, C. Schrottky col.], 12.971' 'Paraguay, Hohenau, C. Schrottky [col.] 'Cotipo' '102.045'; 1♀ '12.970 [Paraguay, Hohenau, C. Schrottky col.] 'Paraguay, Hohenau, C. Schrottky [col.] 'Cotipo' '102.046'; 1♀ '18.132 [Paraguay, Alto Paraná, Puerto Bertoni, 1910, C. Schrottky col.] 'Paraguay, Alto Paraná, Puerto Bertoni' 'Metatipo' '102.047'. *Current status*: *Megachile (Sayapis) planula* Vachal, 1909.

***Megachile coelioxiformis* Schrottky, 1910e: 540**

Syntype: 1♀ '18.132 [Paraguay, Alto Paraná, Puerto Bertoni, 1910, C. Schrottky col.] 'Paraguay, Alto Paraná, Puerto Bertoni' 'Metatipo' '102.047'. *Current status*: *Megachile coelioxiformis* Schrottky, C. Schrottky det. 1910 '102.047'.

***Megachile framea* Schrottky, 1913b: 211**

Holotype: ♂ '18.152 [Brazil, São Paulo, Jundiá, xi.1900, M. Beron col.] 'Holotipo' '102.071'. *Current*

rent status: *Megachile (Pseudocentron) framea* Schrottky, 1913.

***Megachile friesei* Schrottky, 1902a: 439**

Syntypes: 1♀ '1.402 [Brazil, São Paulo, Jundiaí, 01.ii.1900, M. Beron col.]' 'Paratypus, *Meg.[achile] friesei*, Schr.[ottky], 1902' '102.088'; 1♀ '1.402 [same data]' 'Holotipo' '102.084'; 1♀ '1.402 [same data]' 'Paratipo' '102.077'; 1♀ '1.402 [same data]' 'Paratipo' '102.082'. *Current status*: *Megachile (Leptorachis) friesei* Schrottky, 1902.

***Megachile gracilis* Schrottky, 1902a: 435**

Syntypes: 1♀ '1.403 [Brazil, São Paulo, Jundiaí, 28.i.1900, M. Beron col.]' 'Holotipo' '102.075'; 1♂ '1.403 [same data]' 'gracilis Schr[ottky], 1202, Typo'. *Current status*: *Megachile (Trichurochile) gracilis* Schrottky, 1902.

***Megachile helicitarsus* Schrottky, 1913b: 206**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000081>)
Holotype: ♂ '14.299 [Brazil, São Paulo, Jundiaí, 25.i.1900, M. Beron col.]' 'Alotipo' 'Type' '102.078'. *Current status*: *Megachile (Leptorachis) friesei* Schrottky, 1902.

***Megachile iberingi* Schrottky, 1913b: 157**

Holotype: ♀ '12.875 [Brazil, São Paulo, Jundiaí, 25.i.1900, M. Beron col.]' 'Holotipo' 'Type' '102.063'.

***Megachile jundiana* Schrottky, 1913b: 204**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000083>)
Holotype: ♂ 14.290 [Brazil, São Paulo, Jundiaí, i.1900, M. Beron col.]' 'Tipo' 'Type' '102.074'. *Paratype*: 1♂ [Brazil], São Paulo, Botucatu, 25.vii.1900, Localidade provável P.J.Moure' '102.073'. *Current status*: *Megachile (Pseudocentron) terrestris* Schrottky, 1902.

***Megachile limae* Schrottky, 1913b: 176**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000084>)
Holotype: ♀ '18.128 [Brazil, São Paulo, Jundiaí, i.1900, M. Beron col.]'. *Paratypes*: 1♀ '18.127[same data as holotype]' 'Paralectotipo' '102.051'; 1♀ '18.127[same data as holotype]' 'Paratypus' '102.070'; 1♀ '6.494 [Brazil, São Paulo, Campinas, 30.i.1901, Hempel col.]' 'Paratypus' '102.069'. *Current status*: *Megachile (Acentron) lentifera* Vachal, 1909.

***Megachile luederwaldti* Schrottky, 1913b: 189**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000085>)
Holotype: ♀ '18.144 [Brazil, São Paulo, Campos do Jordão, 16.ii.1906, Luderwaldt col.]' 'Holotipo'

'102.076'. *Current status*: *Megachile (Chryosarus) luederwaldti* Schrottky, 1913.

***Megachile manausensis* Schrottky, 1913b: 201**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000086>)
Holotype: ♂ '12.881 [Brazil, Amazonas, Manaus]' 'Type' 'Holotipo'. *Current status*: *Megachile (Acentron) manausensis* Schrottky, 1913.

***Megachile melochiae* Schrottky, 1913b: 205**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000087>)
Holotype: ♂ '18.150 [Paraguay, C. Schrottky col.]' 'Paraguay, C. Schrottky [col.]'. *Current status*: *Megachile (Sayapis) zaptlana* Cresson, 1878.

***Megachile orba* Schrottky, 1913b: 214**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000088>)
Holotype: ♂ '18.154 [Paraguay, Alto Paraná, Puerto Pertoni, C. Schrottky col.]' 'Paraguay, Alto Paraná, Puerto Bertoni' 'Cotipo' '102.072'. *Current status*: *Megachile (Tylomegachile) orba* Schrottky, 1913.

***Megachile parsoniae* Schrottky, 1913b: 197**

Syntypes: 1♂ 'Paraguay, Encarnacion, C. Schrottky' '18.148 [Paraguay, Encarnación, 1906, C. Schrottky col.]' 'Cotipo' '102.113'; 1♀ 'Paraguay, Villa Encarnacion, 12.08.[19]06, C. Schrottky [col.]' '18.148a [same data]' 'Cotipo' '102.112'. *Current status*: *Megachile (Chryosarus) parsoniae* Schrottky, 1913.

***Megachile paulistana* Schrottky, 1902a: 440**

Syntypes: 1♀ 'Brasil, Jundiahy [Jundiaí], 17.11.1899, Schrottky [col.]' '1.400 [Brazil, São Paulo, Jundiaí, 17.xi.1899, C. Schrottky col.]' 'Lectotipo' '102.052'; 1♀ '1.400 [same data]'; 1♀ '18.136 [Brazil, São Paulo, São José do Rio Pardo, 12.v.1900, C. Schrottky col.]' '102.050'. *Current status*: *Megachile (Leptorachis) paulistana* Schrottky, 1902.

***Megachile pocograndensis* Schrottky, 1902a: 438**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000089>)
Holotype: ♀ '18.125 [Brazil, São Paulo, Poço Grande, i.1898, Hempel col.]' 'Holotipo' '102.161'. *Current status*: *Megachile (Pseudocentron) nudiventris* Smith, 1853. *Comments*: Poço Grande is an old farm near Juquiá, São Paulo (Rasmussen *et al.*, 2009; Moure *et al.*, 2013).

***Megachile pseudanthidioides* Moure, 1943b: 183**

Paratype: 1♂ 'Brasil, Jundiahy [Jundiaí], 17.11.1899, Schrottky, 1398' '1.398 [Brazil, São Paulo, Jundiaí, viii.1899, C. Schrottky col.]' 'Paratipo' '102.049'. *Current status*: *Megachile (Chryosarus) pseudanthidioides* Moure, 1943.

***Megachile pseudocoelioxys* Schrottky, 1920: 204**

Holotype: ♀ [Brazil], São Paulo, Franca, i.[19]03, O. Dreher leg. 'Holotipo' 'Typus' '102.108'. *Current status*: *Megachile (Tylomegachile) orba* Schrottky, 1913.

***Megachile pseudopleuralis* Schrottky, 1913b: 190**

Holotype: ♀ '12.872 [Brazil, Minas Gerais, Jaguará]' 'Holotipo' '102.055'. *Current status*: *Megachile (Moureapis) pseudopleuralis* Schrottky, 1913.

***Megachile separata* Schrottky, 1913b: 185**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000090>)

Holotype: ♀ '18.138 [Brazil, São Paulo, Rincão, ii.1901, Lima & Erhardt col.]' 'Holotipo' 'Type' '102.053'. *Paratype*: 1♀ '18.139 [Brazil, São Paulo, Franca, xii.1902, Dreher col.]' 'Paratipo' '102.054'. *Current status*: *Megachile (Leptorachis) paulistana* Schrottky, 1902.

***Megachile terrestris* Schrottky, 1902a: 441**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000091>)

Holotype: ♀ '18.142 [Brazil, São Paulo, Jundiá, 02.ii.1900, M. Beron col.]' 'Typo!' 'Holotipo' '102.056'. *Current status*: *Megachile (Pseudocentron) terrestris* Schrottky, 1902.

***Megachile trigonaspis* Schrottky, 1913b: 191**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000092>)

Holotype: ♀ '18.145 [Brazil, São Paulo, Rincão, ii.1901, Lima & Erhardt col.]' 'Holotipo' '102.160'. *Current status*: *Megachile (Austromegachile) trigonaspis* Schrottky, 1913.

***Megachile tuberculifera* Schrottky, 1913b: 188**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000093>)

Holotype: ♀ '18.143 [Brazil, São Paulo, Campos do Jordão, 02.iii.1906, Luderwaldt col.]' 'Holotipo' '102.057'. *Current status*: *Megachile (Chryosarus) tuberculifera* Schrottky, 1913.

***Megachile ypiranguensis* Schrottky, 1913b: 194**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%20000094>)

Holotype: ♀ '18.146 [Brazil, São Paulo, São Paulo, Ipiranga, xii.1908, Lima col.]' 'Holotipo' '102.066'. *Current status*: *Megachile (Sayapis) ypiranguensis* Schrottky, 1913.

RESUMO

O presente catálogo apresenta uma lista dos espécimes tipo de abelhas (Hymenoptera, Apidae s.l.) depositados no Museu de Zoologia da Universidade de São Paulo,

Brasil (MZSP). A coleção de Hymenoptera do MZSP representa uma das mais importantes coleções para a fauna brasileira e Neotropical, incluindo um número relativamente grande de tipos e táxons representados. A coleção de Apidae abriga um total de 473 espécimes-tipo (101 holótipos, 30 lectótipos, 190 parátipos, 34 paralectótipos e 119 síntipos) pertencentes a 257 espécies classificadas em 88 gêneros, 22 tribos e cinco subfamílias (*Andreninae*, *Apinae*, *Colletinae*, *Halictinae*, e *Megachilinae*). São apresentadas as informações das etiquetas, informações adicionais a partir dos registros do MZSP e da literatura publicada, e cometários taxonômicos. Fotografias em alta resolução dos holótipos e lectótipos estão disponibilizadas digitalmente através de links para o Specimage (banco de dados de imagens da Ohio State University).

PALAVRAS-CHAVE: Apoidea; Catálogo; Lista de tipos; MZSP; Taxonomia.

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