

Papéis Avulsos de Zoologia

Museu de Zoologia da Universidade de São Paulo

Volume 54(27):391-402, 2014

www.mz.usp.br/publicacoes

www.revistas.usp.br/paz

www.scielo.br/paz

ISSN impresso: 0031-1049

ISSN on-line: 1807-0205

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

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ABSTRACT

The present paper lists the type specimens of Hymenoptera, excluding Aculeata, deposited in the Museu de Zoologia da Universidade de São Paulo, Brazil. We record all labels contents and also additional information from MZSP registers, published material, and other available sources. High resolution photographs of holotypes, lectotypes and syntypes are available through links to Specimage – the image database of The Ohio State University, where they are archived. The collection comprises a total of 332 type-specimens (32 holotypes, 266 paratypes, 12 syntypes, 20 paralectotypes and two lectotypes) of eight superfamilies, 18 families, 31 subfamilies, 43 genera and 83 species.

KEY-WORDS: Brazil; Insecta; Hymenoptera; MZSP; Types list.

INTRODUCTION

The Hymenoptera collection housed in the Museu de Zoologia da Universidade de São Paulo (MZSP) is one of the most representatives for the Brazilian and Neotropical faunas. The earliest records correspond to material collected mostly by Hermann von Ihering and Hermann von Lüderwaldt at the beginning of the XX century, when the Museum was still a section of the Museu Paulista (Klingenberg & Brandão, 2005).

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 from the acquisition of smaller collections, exchanges and deposit

of material from other institutions and from colleagues from different parts of the world. Currently, it includes one of the most important collections of Neotropical ants, on which a number of catalogs have been published aiming to list all types hereby deposited (Brandão, 1991; Klingenberg & Brandão, 2005; Scott-Santos *et al.*, 2008; Brandão *et al.*, 2010; Esteves *et al.*, 2011; Prado & Brandão, 2013 and Ulysséa & Brandão, 2013). Type catalogs of other Aculeata taxa are in preparation. During this period of more than 100 years, but specially more recently, the collections of non-Aculeata Hymenoptera (the traditional and paraphyletic “Parasitica” and Symphyta” assemblages) were also substantially expanded and now house many thousands of specimens, both in dry (pinned) and wet (preserved in alcohol) conditions.

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<http://dx.doi.org/10.1590/0031-1049.2014.54.27>

We present here the first compiled list of the Hymenoptera types, excluding the Aculeata group, deposited in the Museu de Zoologia da Universidade de São Paulo in order to fulfill the recommendation 72F of the International Code of Zoological Nomenclature (1999) making information about these types available to future researchers, and also hopefully avoiding unnecessary movement of these specimens by long distance loans.

MATERIAL AND METHODS

For the elaboration of this list, we considered all Hymenoptera species, excluding those belonging to the Aculeata group.

The species are arranged in two separate sections referring to the "Symphyta" and "Parasitica" assemblages. Species are given in full current binomial format, following an alphabetical arrangement of superfamilies, families, subfamilies and genera. The names of all species are followed by the name of the author, year and page of publication.

Next, the reader is referred to a link to Specimage (<http://specimage.osu.edu>), the image database at The Ohio State University, where images of holotypes, lectotypes and syntypes are archived. Images were obtained from Leica M205C magnifying stereoscope and microscope Leica DM5000 B attached to a Leica DFC 295 video camera using Leica LAS (Leica Application Suite V3.6.0 and V4.1.0) Microsystems by Leica Limited (Switzerland). All illustrations were edited in commercial software for edition of images using adjustments (*e.g.*, levels, shadows/highlights), tools (*e.g.*, healing brush, clone stamp) and filters (*e.g.*, unsharp mask).

All information given herein was taken from labels data, with the addition of further information that we were able to recover from MZSP registers, published material, and other available sources. Information not recorded in labels is presented in brackets. Original information is given in the original language of the labels, while full additional information is provided in English. Data are presented in the following sequence (whenever possible): type category, number and sex of specimens, current MZSP registration number, locality (COUNTRY, State/Province, city, other locality details, coordinates), date of collecting, trap, host, collector name and the original taxon name if applicable.

RESULTS

The collection comprises a total of 332 type-specimens (32 holotypes, 266 paratypes, 12 syntypes,

20 paralectotypes and two lectotypes) of eight superfamilies, 18 families, 31 subfamilies, 43 genera and 83 species.

"SYMPHYTA" SECTION

Tenthredinoidea

Argidae

Arginae

Scobina Lepeletier & Serville

Scobina guaca Smith, 1992: 25.

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2051671>)

Holotype: 1 ♀ (# MZSP 51671), [BRAZIL], Minas Gerais, Cabo Verde, 1920, Diaz col.

Atomacerinae

Atomacera Say

Atomacera beda Smith, 1992: 46.

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2051672>)

Holotype: 1 ♀ (# MZSP 51672), [BRAZIL], S[ão] Paulo, S[an]to André, ii.1962, L. Stowbnnenko [*sic* Stowbunenko] col.

Dielocerinae

Themos Norton

Themos malaisei Smith, 1992: 81.

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2051655>)

Holotype: 1 ♀ (# MZSP 51655), [BRAZIL, São Paulo], Ipiranga, xii.1932, n° 22.147.

Paratypes: 4 ♀ and 2 ♂ (# MZSP 51656-51661), same data as holotype; 2 ♀, (# MZSP 51663-51664), n° 22.147; 1 ♀ (# MZSP 51662), BRAZIL, São Paulo, Barueri, 03.ii.1962, K. Lenko col; 1 ♀ (# MZSP 51665), [BRAZIL, São Paulo], São Paulo, xii.1902, M. Beron col; 1 ♀ (# MZSP 51666), [BRAZIL, São Paulo], Ipiranga, 01.ii.1937, Lange de Morretes; 1 ♀ (# MZSP 51667), [BRAZIL, Mato Grosso], Utiariti, Rio Papagaio, 01-12.xi.1966, [Len]ko & Pereira col.

Comments: As pointed out by Smith (1992), the specimens from the type locality bear an additional determination label saying "*Parasyzygonia cyanoptera* Kl." but that species belongs to Pergidae. We found also an illegible handwritten mention in the last line on the locality label. The female paratype from Barueri

is mounted along a leaf with non-identified eggs on its surface.

Erigleninae
***Neurogymnia* Malaise**

***Neurogymnia longiserra* Smith, 1992: 56.**
(<http://hol.osu.edu/spmInfo.html?id=MZSP%2051668>)

Holotype: 1 ♀ (# MZSP 51668), [BRAZIL, Rio de Janeiro], Rio de Janeiro, Tijuca, Wener col.

***Neurogymnia tria* Smith, 1992: 56.**
(<http://hol.osu.edu/spmInfo.html?id=MZSP%2051669>)

Holotype: 1 ♀ (# MZSP 51669), [BRAZIL], Goyas [today spelled as Goiás], Campinas [presently Goiânia], 1935, R. Spitz col.

***Sericoceros* Konow**

***Sericoceros tannuus* Smith, 1992: 66.**
(<http://hol.osu.edu/spmInfo.html?id=MZSP%2051670>)

Holotype: 1 ♀ (# MZSP 51670), [BRAZIL, Minas Gerais], Santana do Riacho, Serra do Cipó, 09.xi.1967.

Cimbicidae
Pachylostictinae
***Brasilabia* Conde**

***Brasilabia clypealba* (Conde, 1932): 439-441.**
(<http://hol.osu.edu/spmInfo.html?id=MZSP%2045655>)

Holotype: 1 ♀ (# MZSP 45655), [BRAZIL, São Paulo, São Paulo, ii.1906. H. Luederwaldt col.], nº 9019. Original name: *Pseudabia clypealba* Conde, 1932.

Pergidae
Loboceratinae
***Aulacomerus* Spinola**

***Aulacomerus padeus* Smith, 1990: 143.**

Paratype: 1 ♀ (# MZSP 45657), [BRAZIL], M[ato] G[rosso], Porto Velho, Rio Tapirapé, 10-12.xii.1964, R.T. Lima col.

Pergulinae
***Haplostegus* Konow**

***Haplostegus luteolus* Conde, 1936: 120, 124.**
(<http://hol.osu.edu/spmInfo.html?id=MZSP%2045658>)

Lectotype: 1 ♀ (# MZSP 45658), [BRAZIL, São Paulo, Botucatu, Victoria, xi.1900, Hempel col], nº 5790.

***Haplostegus nigricrus* Conde, 1936: 120, 124.**
(<http://hol.osu.edu/spmInfo.html?id=MZSP%2051652>)

Holotype: 1 ♀ (# MZSP 51652), [BRAZIL, São Paulo, São Paulo, Ipiranga, 06.iv.1908, Luederwaldt col.], nº 10.912??=10.943.

Perreyiinae
***Heteroperreyia* Schrottky**

***Heteroperreyia setava* Smith, 1990: 32.**
(<http://hol.osu.edu/spmInfo.html?id=MZSP%2051653>)

Holotype: 1 ♀ (# MZSP 51653), [BRAZIL, Rio de Janeiro], Rio de Janeiro, Corcovado, GB, xi.1966, M. Alvarenga col.

***Perreyia* Brullé**

***Perreyia odontea* Smith, 1990: 62.**

Paratype: 1 ♂ (# MZSP 51654), BRASIL, São Paulo, Monte Alegre, Faz[enda] Bom Jesus, 750 m, 14-27.x.1942, L. Trav. F. & Almeida cols.

Syzygoniinae
***Lagideus* Konow**

***Lagideus besus* Smith, 1990: 114.**
(<http://hol.osu.edu/spmInfo.html?id=MZSP%2045656>)

Holotype: 1 ♀ (# MZSP 45656), [BRAZIL], S[ão] P[aulo], Caraguatatuba, Res[erva] Flor [estal], 40 m, 22.v-01.vi.1962, Ex[pedição] Dep[artamento] [de] Zool[ogia].

“PARASITICA” SECTION

Chalcidoidea
Agonidae
Sycophaginae
***Anidarnes* Boucek**

***Anidarnes brevior* Farache & Rasplus, 2013: 19**
(*In Farache et al., 2013*).

Paratypes: 2 ♀ and 2 ♂ (# MZSP 25531-25534), COSTA RICA, Pequena Helvetia, Hotel Los Heroes, 10.475466°, -84.830086°, 05.iii.2008, ex *F. americana* (*perforata*), nº JRAS2177_02, W. Ramirez & J.Y. Rasplus col.

***Anidarnes dissidens* Farache & Rasplus, 2013: 20**
(In Farache et al., 2013).

Paratypes: 1 ♀ (# MZSP 25536), BRAZIL, São Paulo, Gália, -22.336327°, -49.634500°, 31.iii.2008, ex. *Ficus obtusifolia*, nº 014-4, F.H.A. Farache & al. col; 1 ♂ (# MZSP 25536), same data except -22.249083°, -49.830165°, 10.ii.2009, ex. *Ficus obtusifolia*, nº 88-6, F.H.A. Farache col.

***Anidarnes gracilis* Farache & Rasplus, 2013: 24**
(In Farache et al., 2013).

Paratypes: 1 ♀ and 1 ♂ (# MZSP 25537, 25538), COSTA RICA, Pequena Helvetia, Hotel Los Heros, 10.474186°, -84.830230°, 05.iii.2008, ex. *Ficus trachelosyce*, nº JRAS2171_01, W. Ramirez & J.Y. Rasplus col.

***Anidarnes isophlebiae* Farache & Rasplus, 2013: 26** (In Farache et al., 2013).

Paratypes: 2 ♀ and 2 ♂ (# MZSP 25539-25542), COSTA RICA, Puerto Viejo de Talamanca, 09.637585°, -82.708600°, 14.iv.2010, ex *Ficus isophlebia*, nº JRAS2824_02, A. Cruaud & J.Y. Rasplus col.

***Anidarnes longiscutellum* Farache & Rasplus, 2013: 27** (In Farache et al., 2013).

Paratype: 1 ♀ (# MZSP 25543), BRAZIL, São Paulo, Ribeirão Preto, 21.198135°, 47.900451°, 06.viii.2008, ex. *Ficus eximia*, nº 168-1, L.M.R. Teixeira & al. col.

***Anidarnes niger* Farache & Rasplus, 2013: 28**
(In Farache et al., 2013).

Paratypes: 1 ♀ (MZSP # 25545), COLOMBIA, Bogotá, D.C., 04.63767°, 74.07209°, 16.vi.2009, ex. *Ficus andicola*, Gonzales S.J. col., nº 156-2; 1 ♂ (MZSP # 25.544), COLOMBIA, Cundinamarca, Bogotá D.C., Ciudad Universitaria, 04.638568°, -74.089985°, 16.vi.2009, 2620 m ex. *Ficus andicola*, nº JRAS2957, G.S. Jansen col.

***Anidarnes rugosus* Farache & Rasplus, 2013: 29**
(In Farache et al., 2013).

Paratype: 1 ♀ (MZSP # 25546), BRAZIL, São Paulo, Teodoro Sampaio, 22.365780°S, 52.314398°W), 03.v.2008, ex. *Ficus crocata*, nº 47-10, L.M.R. Teixeira col.

Chalcididae
Chalcidinae

***Brachymeria* Westwood**

***Brachymeria nigritibialis* Tavares & Navarro-Tavares, 2006: 57** (In Tavares et al., 2006).

Paratypes: 1 ♂ (# MZSP 51548), BRASIL, R[io de] J[aneiro], R[io] de Janeiro, Parque Natural Municipal de Marapendi, 30.ix.2005, G. Almeida, e eq[uipe] col, ex. de pupário de *Lespesia* (Diptera) em *Parides ascanius* (Lepid.), emergido em 21.x.2005; 1 ♀ (MZSP 51549), same data except collected in 28.x.2005, emergido em 20.xi.2005.

***Ceyxia* Girault**

***Ceyxia acutigaster* Andrade & Tavares, 2009: 515.**

Paratypes: 2 ♀ (# MZSP 51556, 51557), [BRAZIL], S[ão] P[aulo], Sorocaba, parasitas de ninho [de vespa], H.v. Ihering col.

***Ceyxia amazonica* Andrade & Tavares, 2009: 516.**

Paratype: 1 ♀ (# MZSP 51555), [BRAZIL], MT[Mato Grosso], Utiariti, Rio Papagaio, 01-12.XI.1966, Lenko & Pereira col.

***Ceyxia atuberculata* Andrade & Tavares, 2009: 517.**

Paratype: 1 ♀ (# MZSP 51551), Brasil, Pará, Caldeirão, R[io] Itacaiunas, UNICAMP, Ecologia Campo, vii-viii.1985, Brandão & Benson col; 1 ♀ (# MZSP 51552), [BRAZIL, São Paulo], Alto da Serra, 06.xi.1906, H. Lüderwaldt col.

***Ceyxia dentiformis* Andrade & Tavares, 2009: 524.**

Paratypes: 1 ♀ (# MZSP 51550), BRASIL, M[inas] G[erais], Serra do Caraça, 27.xi-05.xii.1972, Exp[edição do] Mus[eu de] Zool[ogia]; 1 ♀ (# MZSP 51553), BRASIL, S[ão] Paulo, Ilha dos Búzios, 16.x-04.xi.1963, Exp[edição do] Mus[eu de] Zool[ogia].

***Ceyxia diminuta* Andrade & Tavares, 2009: 525.**

Paratype: 1 ♀ (# MZSP 51560), BRASIL, S[ão] P[aulo], Ubatuba, Base Inst[ituto] Ocean[ográfico] 26.i-09.ii.1971, luz, P. Montouchet col.

***Ceyxia laticlipeata* Andrade & Tavares: 532.**

Paratype: 1 ♀ (# MZSP 51572), [BRAZIL], MT [Mato Grosso], Utiariti, Rio Papagaio, x.1966, Lenko & Pereira col.

***Ceyxia parvidentata* Andrade & Tavares, 2009: 540.**

Paratype: 1 ♀ (# MZSP 51573), [BRAZIL], S[ão] P[aulo], Nova Europa, Faz[enda] Itaquerê, 24-31. viii.1965, Lenko & Pereira col.

***Ceyxia perparva* Andrade & Tavares, 2009: 540.**

Paratype: 1 ♂ (# MZSP 51574), [BRAZIL], São Paulo, Barueri, 05.vi.1966. K. Lenko col.

Conura* Spinola**Conura brassolis* (Schrottky, 1909): 210.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%206698>)

Syntypes: 2 ♀ and 2 ♂ (# MZSP 06697, 06698), [PARAGUAY], Alto Paraná, Puerto Bertoni. Original name: *Pilochalcis brassolis* Schrottky, 1909.

Melanosmicra* Ashmead**Melanosmicra acutodentata* Navarro-Tavares & Tavares, 2008: 553.**

Paratypes: 4 ♀ (# MZSP 51606-51609), BRASIL, PR [Paraná], Morretes, Parque Estadual do Pau Oco, 25°34'27,5"S, 48°53'33,0"W, 09.iv.2002, Varredura de Vegetação M.T. Tavares e eq. col; 3 ♀ (MZSP 51624-51626), BRASIL, R[io de] J[aneiro], Nova Iguaçu, Res[erva] Biol[ógica] Tinguá, 22°34'38"S, 43°26'09"W, 07.iii.2002, Varredura de Vegetação, S.T.P. Amarante e eq. col; 1 ♂ (MZSP 51610), BRASIL, S[ão] P[aulo], Ribeirão Grande, Parque Est[adual de] Intervalles, 24°17'34"S, 48°22'03"W, 10-13.xii.2000, Bosque, Armadilha Malaise, M.T. Tavares e eq[uipe] col; 1 ♀ (MZSP 51611), same data except 13-16.xii.2000, Trilha; 3 ♀ (MZSP 51613-51615), BRASIL, S[ão] P[aulo], Salesópolis, Est[ação] Biol[ógica] de Boracéia, 23°39'04,8"S, 45°53'41,8"W, 01.iv.2001, Varredura de Vegetação, M.T. Tavares e eq. col; 1 ♀ (MZSP 51616), same data except 23°39'07,0"S, 45°53'43,1"W, Moericke, Bosque, 03-06.iv.2001; 5 ♀ and 1 ♂ (MZSP 51617-51622), same data except 23°39'01,8"S, 45°52'55,5"W, 04.iv.2001, Varredura de Vegetação; 1 ♂ (MZSP 51623), BRASIL, S[ão] P[aulo],

Ubatuba, Parque Est[adual] da Serra do Mar, 23°01'55"S, 44°51'01"W, 21.i.2002, Varredura de Vegetação, N.W. Perioto e eq[uipe] col; 1 ♂ (MZSP 51612), BRASIL, Sergipe, Crasto, S[an]ta Luzia do Itanhy, 11°22'25,1"S, 37°25'04,0"W, 31.viii.2001, Varredura de Vegetação, M.T. Tavares e eq[uipe] col.

***Melanosmicra bilobata* Navarro-Tavares & Tavares, 2008: 556.**

Paratypes: 1 ♀ (# MZSP 51627), BRASIL, S[ão] P[aulo], Rib[eirão] Grande, Parque Est[adual de] Intervalles, 24°18'16"S, 48°21'53"W, Malaise, trilha, 10-13.xii.2000, M.T. Tavares e eq[uipe] col; 2 ♀ (MZSP 51627, 51628), same data except 24°17'34"S, 48°22'03"W, Varredura da Vegetação, 13.xii.2000.

Encyrtidae**Encyrtinae*****Psyllaephagus* Ashmead*****Psyllaephagus baccharidis* Tavares & Perioto, 1993: 317.**

Paratypes: 1 ♀ and 1 ♂ (# MZSP 07317, 07319), BRASIL, São Paulo, Ribeirão Bonito, 26.vii.1989, M.T. Tavares col., ex. *Neopelma baccharidis* de galhas foliares de *Baccharis dracunculifolia*; 1 ♀ and 1 ♂ (MZSP# 07318, 07320), BRASIL, São Paulo, São Carlos, 07.ix.1990, N.W. Perioto col., ex. *Neopelma baccharidis* Burkhardt de galhas foliares de *Baccharis dracunculifolia*.

Eulophidae**Entedoninae*****Closterocerus* Westwood*****Closterocerus coffeellae* Ihering, 1914: 95.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2051479>)

Syntypes: 2 ♂ (# MZSP 51479, 51490), [BRAZIL, São Paulo, Taiúva], [ex. *Leucoptera coffeella* in ix and x.1912]. Observations: Number 17.283 associated to pin.

Horismenus* Walker**Horismenus albipes* (Schrottky, 1902): 108.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%207856>)

Syntypes: 2 ♀ and 1(?) (# MZSP 07856), ARGENTINA, B[uenos] Aires, ex. *Mantispa decorata* Erichson. Original name: *Brachistes albipes* Schrottky, 1902.

***Horismenus albiscapus* Hansson, 2009: 388.**

Paratypes: 1 ♀ and 1 ♂ (# MZSP 18679-18680), BRAZIL, Santa Catarina, [Seara], Nova Teutônia, ix.1943, F.[ritz] Plaumann col.

***Horismenus citrus* Hansson, 2009: 151.**

Paratype: 1 ♀ (# MZSP 18681), BRAZIL, Ac[re], Rio Branco, 11.xi.2003, E.S. Albuquerque col., ex. *Phyllocnistis citrella* on *Citrus sinensis*; 1 ♀ (# MZSP 18682). BRAZIL, R[oraima], Canta, 29.i.2001, V.G. Lopes col., ex. *Phyllocnistis citrella* on *Citrus sinensis*; 1 ♀ (# MZSP 18683), same data except 20.ii.2001; 2 ♂ (# MZSP 18684, 18685), same data except 02.iv.2001; 1 ♀ (# MZSP 18686), BRAZIL, S[ão] P[aulo], Limeira, 03.iii.2003, L.J. Ribeiro col., ex. *Phyllocnistis citrella* on *Citrus sinensis*.

***Horismenus crassus* Hansson, 2009: 167.**

Paratypes: 2 ♀ (# MZSP 18687-18688), [BRAZIL, Paraná], Cascavel, [ex. brown Ichneumonidae cocoon that emerged from larvae of *Alabama* sp.], 26.iii.2000, N. Petit col.

***Horismenus inflatus* Hansson, 2009: 222.**

Paratypes: 6 ♀ (# MZSP 18691-18696), BRAZIL, S[ão] P[aulo], Piracicaba, iv.2004, J.A. Cerignoni col., ex. Chrysomelidae on *Aristolochia* leaf.

Klyngon* Hansson**Klyngon braziliense* Hansson & La Salle, 2010: 14.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2018711>)

Holotype: 1 ♀ (# MZSP 18711), BRAZIL, S[ão] P[aulo], Jaguariúna, 18.ix.1997, Tavares, Costa, Azevedo, Periotto, La Salle col., ex. *Copaifera langsdorffii* in xi.1997.

Paratypes: 3 ♀ and 2 ♂ (# MZSP 18723, 18724, 18767, 18747, 18748), same data as holotype; 30 ♀ and 23 ♂ (# MZSP 18712-18722, 18725-18746, 18749-18766, 18768, 18769), same data as holotype except ex. *Copaifera langsdorffii* in x.1997.

***Klyngon copaiferae* Hansson & La Salle, 2010: 14.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2018772>)

Holotype: 1 ♀ (# MZSP 18772), BRASIL, S[ão] P[aulo], São Carlos, M.T. Tavares, col., ex. *Copaifera langsdorffii* in vii.1994.

Paratypes: 1 ♀ (# MZSP 18771), same data as holotype; 1 ♀ (# MZSP 18770), BRASIL, São Paulo, São Carlos, UFSCar, vii.1994, [Malaise trap], M.T. Tavares, col.

***Klyngon costalimai* Hansson & La Salle, 2010: 17.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2018773>)

Holotype: 1 ♀ (MZSP 18773), BRAZIL, S[ão] P[aulo], Jaguariúna, Tavares, Costa, Azevedo, Periotto, LaSalle col., 18.ix.1997, ex. *Copaifera langsdorffii* in i.1998.

Paratypes: 1 ♀ and 1 ♂ (MZSP 18774, 18775), same data as holotype.

***Klyngon gibberum* Hansson & La Salle, 2010: 18.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2018776>)

Holotype: 1 ♀ (MZSP 18776), BRAZIL, E[spírito] S[anto], Linhares, ix.1972, M. Alarenha [sic Alvarenga] col.

***Klyngon guimaraesi* Hansson & La Salle, 2010: 19.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2018777>)

Holotype: 1 ♀ (# MZSP 18777), BRAZIL, S[ão] P[aulo], Jaguariúna, 18.ix.1997, M. Tavares, Costa, Azevedo, Periotto, LaSalle col., ex. *Copaifera langsdorffii* in i.1998.

Paratypes: 8 ♀ and 2 ♂ (# MZSP 18778-18781, 18784, 18785, 18787, 18791, 18793), same data as holotype; 4 ♀ and 2 ♂ (# MZSP 187782, 19783, 18786, 18788-18790, 18792), same data as holotype except emerged in xii.1997.

***Klyngon pegosoma* Hansson & La Salle, 2010: 24.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2018799>)

Holotype: 1 ♀ (# MZSP 18799), BRASIL, S[ão] P[aulo], Araraquara, COHAB Vitorio de Santi, Vegetação de Cerradão, 13.vii.1997, M.T. Tavares e equipe col., ex. *Liana*.

Paratypes: 5 ♀ (# MZSP 18794-18798), same data as holotype.

Proacrias* Ihering**Proacrias coffeae* Ihering, 1914: 97.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2051494>)

Syntypes: 2 ♀ (# MZSP 51489, 51494). [BRAZIL, São Paulo, Taiúva], [ex. *Leucoptera coffeella* in ix and x.1912].
Observations: Number 17.283 associated to pin.

Pteromalidae
Eutrichosomatinae
***Eutrichosoma* Ashmead**

***Eutrichosoma flabellatum* Boucek, 1975: 134.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%209509>)

Holotype: 1 ♂ (# MZSP 9509), BRAZIL, Distrito Federal, Estação Florestal Cabeça do Veado, 1100 m, 14-30.x.1971, E.G.I. & E.A. Munroe col.

Torymidae
Toryminae
***Podagrion* Spinola**

***Podagrion macrurum* Schrottky, 1902: 109.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2010650>)

Lectotype: 1 ♀ (# MZSP 10650), ARGENTINA, Buenos Aires, ex. *Coptopteryx argentina* Burn.

Paralecotype: 1 ♂, same pin of the lectotype.

Cynipoidea
Figitidae
Anacharitiniae
***Acanthaegilips* Ashmead**

***Acanthaegilips ashmeadi* Ros-Farré & Pujade-Villar, 2003: 18 (In Ros-Farré et al., 2003).**

Paratype: 1 ♂ (# MZSP 45566), PERU, [Cuzco] Machu Picchu, sobre ruínas, 2600-2800 m, 01-02.vii.1964, B. Malkin col.

Aspicerinae
***Prospicera* Kieffer**

***Prospicera splendida* Ros-Farré 2006: 52 (In Ros-Farré & Pujade-Villar 2006).**

Paratype: 1 ♀ (# MZSP 45568), BRASIL, S[ão] P[aulo], Ubatuba, 24.vii.1967, P.C. Montouchet col.

Figitinae
***Neralsia* Cameron**

***Neralsia pilosa* (Borgmeier, 1935): 103.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2045565>)

Holotype: 1 ♀ (# MZSP 45565), BRAZIL, Goyas [presently spelled as Goiás], Campinas [currently Goiânia], Schwarzmaier [ex] *Eciton schlechtendali*, 15.x.1929. Original name: *Xyalophora pilosa* Borgmeier 1935.

Thrasorinae
***Myrtopsen* Rübsaamen**

***Myrtopsen luederwaldti* Dettmer, 1928: 62.**

Paralectotypes: 1 ♂ (# MZSP 28802), BRASIL, S[ão] P[aulo], São Paulo, Ipiranga, 16.ix.1906, H. Luederwaldt col; 1 ♂ (# MZSP 17031), [BRASIL, São Paulo], São Paulo, Ypiranga [Ipiranga], [16.ix.1906, H. Luederwaldt col.].

***Myrtopsen rodavalhoi* Dettmer, 1928: 57.**

Paralectotypes: 11 ♀ and 6 ♂ (# MZSP 17034-17046, 28127, 28125, 25304, 45567), [BRASIL], São Paulo, Capital [São Paulo], H. Dettmer col.

Diapriodea
Diapriidae
Diapriinae
***Szelenyiopria* Fabricius**

***Szelenyiopria talitae* Loiacono & Margaría, 2013: 229 (In Loiacono et al., 2013).**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2045653>)

Holotype: 1 ♀ (# MZSP 45653), BRAZIL, Rio de Janeiro, Bom Jardim, 22°09'07"S, 42°25'10"W, v.2011, Moreira col.

Maamingidae
***Maaminga* Early, Masner, Naumann & Austin**

***Maaminga rangi* Early, Masner, Naumann & Austin, 2001: 345.**

Paratype: 1 ♂ (# MZSP 18296), NEW ZEALAND, Coromandel, 10 km E. Thames, 22-29.i.1999, y[ellow] p[an] t[rap], S.A. Marshall col.

Monomachidae
***Monomachus* Klug**

***Monomachus satyrus* Musetti & Johnson, 2004: 535.**

Paratypes: 1 ♀ (# MZSP 45625), [BRASIL], Pará, Belém, iii.1957, F. Werner col; 1 ♀ (MZSP 45626),

[BRAZIL], Rio de Janeiro, Itatiaia, i.1950, Lima col; 2 ♀ (# MZSP 45627, 45628), BRASIL, São Paulo, Barueri, 01.v.1961, K. Lenko col; 1 ♀ and 1 ♂ (# MZSP 45629, 45630), same data except 29.v.1966; 1 ♀ (# MZSP 45631), [BRAZIL], São Paulo, C[ampos] do Jordão, 20.i.1936, F. Lane col; 1 ♀ (# MZSP 45632), same data except i.1948; 1 ♂ (# MZSP 45633), BRAZIL, S[ão] P[aulo], São Paulo, Horto Florestal, 13.iv.1962, K. Lenko & Reichardt col.

Evanioidea
Gasteruptionidae
Gasteruptioninae
***Gasteruption* Latreille**

***Gasteruption bertae* Macedo, 2011: 12.**

Paratypes: 1 ♂ (# MZSP 18310), ARGENTINA, Catamarca, La Ciénaga, 21-22.xi.1967, A. Terán & L.A. Stange col; 1 ♂ (MZSP 18311), [ARGENTINA, Catamarca], Los Nacimientos de Abajo, 16-30.xi.1968, Malaise, A. Willink, A. Terán & L.A. Stange col; 1 ♀ (# MZSP 18312), [ARGENTINA, Catamarca], 6 km N Belén, 1240 m, Malaise, 16-30.xi.1968, A. Willink, A. Terán & L.A. Stange col; 1(?) (# MZSP 18313), ARGENTINA, Salta, Yacochuia, Cafayete, 1950 m, 16-31.xii.1968, A. Willink, A. Terán & L.A. Stange col.

***Gasteruption brandaoi* Macedo, 2011: 20.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2018377>)

Holotype: 1 ♀ (# MZSP 18377), BRAZIL, São Paulo, Pirassununga, [Reserva Biológica do] Cerrado das [de] Emas, 07.x.1989, F. Eichel col.

***Gasteruption hansonii* Macedo, 2011: 30.**

Paratypes: 1 ♂ (# MZSP 18406), COSTA RICA, Alajuela, San Ramon, R. Jesus. C. La Lana, 1200 m, ii.1997, G. Carballo col; 1 ♀ (# MZSP 18404), COSTA RICA, Puntarenas, Est[ación] La Casona, Res[erva] Biol[ógica] Monteverde, 1520 m, x.1992, N. Obando col; 1 ♂ (# MZSP 18405), COSTA RICA, [Puntarenas], Monteverde, 20-30.viii.1993, Malaise trap, M.D. Wood col; 1 ♀ (# MZSP 18407), COSTA RICA, San José, Zurquí de Moravia, 1600 m, viii.1995, P. Hanson col.

***Gasteruption belenae* Macedo, 2011: 32.**

Paratypes: 1 ♀ (# MZSP 18410), ARGENTINA, Entre Ríos, Pronunciamiento, xi.1963; 1 ♀ and 1 ♂

(# MZSP 18411, 18412), same data except i.1965; 1 ♂ (# MZSP 18413), same data except ii.1965; 1 ♀ and 1 ♂ (# MZSP 18408, 18409), same data except xi.1963.

***Gasteruption lianae* Macedo, 2011: 37.**

Paratypes: 1 ♂ (# MZSP 18420), [BRAZIL, Distrito Federal, Brasília], Res[erva] Ecol[ógica] do IBGE, BR-251, km 0, 05-19.viii.1982; 1 ♂ (# MZSP 18421), same data except 09-16.ix.1982.

***Gasteruption loiaconoae* Macedo, 2011: 39.**

Paratype: 1 ♂ (# MZSP 18422), ARGENTINA, Tucumán, San Pedro de Colalao, 22.x.1966, L.A. Stange & A. Terán col.

***Gasteruption rafaeli* Macedo, 2011: 45.**

Paratypes: 1 ♀ (# MZSP 18427), BR[AZIL], Am[azonas], Manaus, Campus Universitário, Malaise, 18.xi.1978, J.A. Rafael col; 1 ♂ (# MZSP 18428), same data except 23.vi.1979; 3(?) (# MZSP 18429, 18430), same data except 28.vii.1979; 1 ♀ and 1 ♂ (# MZSP 18432, 18433), same data except 04.viii.1979; 1(?) (# MZSP 18435), same data except 07.vi.1982; 1(?) (# MZSP 18436), same data except 11.vi.1982; 1 ♂ (# MZSP 18437), same data except 29.vi.1982; 1 ♂ and 1 ♀ (# MZSP 18438, 18439), same data except 20.viii.1982; 1 ♂ (# MZSP 18440), same data except 28.vii.1982.

Comments: There is one specimen with a paratype label, but as it is not mentioned in the original publication, we do not consider it as a type specimen.

***Trilobitofoenus* Macedo**

***Trilobitofoenus alvarengai* Macedo, 2009: 23.**

Paratype: 1 ♀ (# MZSP 18479), [BRAZIL, Am[azonas], Estirão do Equador, R[ío] Javari, ix.1979, Alvarenga col.

***Trilobitofoenus plaumanni* Macedo, 2009: 21.**

Paratype: 1 ♀ (# MZSP 18480), BRAZIL, Santa Catarina, [Seara], Nova Teutônia, 16.xii.1948, Dirings col[lection, Fritz Plaumann coll.].

Ichneumonoidea
Braconidae
Agathidinae
***Alabagrus* Enderlein**

***Alabagrus intimapa* Sharkey, 1988: 371.**

Paratype: 1 ♂ (# MZSP 18502), BRAZIL, Rio Gr[ande] do Sul, Stieglmayr col.

***Alabagrus juchuy* Sharkey, 1988: 374.**

Paratype: 1 ♂ (# MZSP 18504), BRAZIL, São Paulo, Barueri, 13.i.1962. K. Lenko col.

***Alabagrus mojos* Sharkey, 1988: 386.**

Paratype: 1 ♀ (# MZSP 18507), BRAZIL, S[ão] [Paulo], Araçatuba, x.1961, J. Lane & Rabello col.

Braconinae
***Hemibracon* Förster**

***Hemibracon guayrae* Schrottky, 1913: 704.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2019337>)

Holotype: 1 ♀ (# MZSP 19337), [BRAZIL], Paraná, Guayra [Guaíra], Zororó, 24.x.1910.

Doryctinae
***Heterospilus* Haliday**

***Heterospilus arleiophagus* Marsh & Melo, 1999: 16.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2019413>)

Holotype: 1 ♀ (# MZSP 19413), BRAZIL, M[inas] G[erais], Viçosa, 28.i.1990, collected in nest of *Microstigmus arlei*, G.A.R. Melo col.

Paratypes: 1 ♂ (MZSP 19414), same data as holotype; 1 ♀ (MZSP 19415), same data as holotype except 07.viii.1990.

***Heterospilus brasilophagus* Marsh & Melo, 1999: 17.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2019416>)

Holotype: 1 ♀ (# MZSP 19416), BRAZIL, M[inas] G[erais], Viçosa, 15.ii.1992, collected in nest of *Microstigmus brasiliensis*, G.A.R. Melo col.

Paratypes: 2 ♂ (# MZSP 19417, 19418), same data as holotype; 1 ♂ (MZSP 19419), same data as holotype except 25.vii.1992.

***Heterospilus matthewsi* Marsh & Melo, 1999: 18.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2019424>)

Holotype: 1 ♀ (# MZSP 19424), BRAZIL, M[inas] G[erais], Viçosa, 10.ii.1992, collected in nest of *Microstigmus myersi*, G.A.R. Melo col.

Paratypes: 1(?) and 1 ♂ (# MZSP 18525, 18526), same data as holotype; 1 ♀ (MZSP 18523), same data as holotype except 18.vii.1992; 1 ♀ (MZSP 18527), same data as holotype except 31.vii.1992;

***Heterospilus richardsi* Marsh & Melo, 1999: 20.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2019420>)

Holotype: 1 ♀ (# MZSP 19420), BRAZIL, M[inas] G[erais], Araponga, 22.iii.1992, collected in nest of *Spilomena alini*, G.A.R. Melo col.

Paratypes: 1 ♂ (# MZSP 19421), same data as holotype; 1 ♀ (MZSP 19422), COSTA RICA, Heredia, Estacion Biol[ogica] La Selva, 10°25'N, 84°00'W, 80 m, 14.vi.1996, G.A.R. Melo col.

Microgastrinae
***Cotesia* Cameron**

***Cotesia paphi* (Schrottky, 1902): 107.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2019502>)

Syntype: 1(?) (# MZSP 19502), ARGENTINA, B[uenos] Aires, [Venturi col.], ex. *Phlegethontius paphus* Cram. Original name: *Apanteles paphi* Schrottky, 1902.

Ichneumonidae
Banchinae
***Meniscomorpha* Schmiedeknecht**

***Meniscomorpha cleiae* Graf, 1979: 66.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2020874>)

Holotype: 1 ♀ (# MZSP 20874), [BRAZIL, São Paulo], C[ampos] [do] Jordão, Eugênio Lefevre, 1200 m, 22.iii.1963, J. Guimarães, E. Rabello, A. Barroso & L.T.F. col.

Cryptinae
***Polyphrix* Townes**

***Polyphrix atlantica* Nogueira & Aguiar, 2005: 27.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2026910>)

Holotype: 1 ♀ (# MZSP 26910), BRAZIL, E[spírito] S[anto], Santa Teresa, Est[ação] Biológica de S[anta] Lúcia, 19°58'18"S, 40°32'05"W, 17-20.vi.1997, 840 m, bandejas amarelas, W.A. Hoffmann & R. Ribeiro col.

Paratype: 1 ♀ (# MZSP 26911), same data as holotype except 28-30.iv.1997.

Ophioninae
***Stauropoctonus* Brauns**

***Stauropoctonus leotacilioi* Lima & Kumagai, 2013: 503 (In Lima et al. 2013).**

Paratypes: 1 ♂ (# MZSP 51675), BRAZIL, São Paulo, Itu, Faz[enda] Pau D'Alho. 19.ii.1961, U. Martins col; 1? (# MZSP 51676), same data except 05.xi.1961.

Platygastridae
Platygastrinae
Platigastrinae
***Synopeas* Förster**

***Synopeas hopkinsi* (Crawford & Bradeley, 1911): 124.**

Paratypes: 1 ♀ and 1 ♂ (# MZSP 19776, 19777), [UNITED STATES OF AMERICA, New York, Ithaca], Cornell U[niversity], [21.vii.1897, J.H. Comstock col]. Original name: *Dolichotrypes hopkinsi* Crawford & Bradeley, 1911.

Scelioninae
***Baeus* Haliday**

***Baeus anelosimus* Margaría & Loiácono, 2006: 46 (In Margaría et al. 2006a).**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2020072>)

Holotype: 1 ♀ (# MZSP 20072), BRAZIL, São Paulo, Jundiaí, Serra do Japi, 23.i.1998, Gonzaga col., reared from *Anelosimus studiosus* (Araneae: Theridiidae) eggs.

***Baeus cyclosae* Margaría & Loiácono, 2006: 183 (In Margaría et al. 2006b).**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2020053>)

Holotype: 1 ♀ (# MZSP 20053), BRAZIL, São Paulo, [Ribeirão Grande, Parque Estadual de Intervales], 08.xi.2002, Gonzaga col, reared from *Cyclosa morretes* (Araneae: Araneidae) eggs.

***Baeus jabaquara* Margaría & Loiácono, 2006: 49 (In Margaría et al. 2006a).**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2020054>)

Holotype: 1 ♀ (# MZSP 20054), BRAZIL, São Paulo, [Jundiaí], Serra do Japi, 20.iii.2005, Gonzaga col., reared from *Anelosimus jabaquara* (Araneae: Theridiidae) eggs.

***Thoronidea* Masner & Huggert**

***Thoronidea cerradensis* Johnson, 2000: 302.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2020450>)

Holotype: 1 ♀ (# MZSP 20450), BRAZIL, Goiás, Campinaçu, 13°52.0'S, 48°23.2'W, 19-20.ii.1996, yellow pans by creek, Serra da Mesa Survey.

Paratypes: 1 ♂ (# MZSP 20451), same data as holotype; 1 ♀ (# MZSP 20452), same data as holotype except 21-22.ii.1996; 1 ♂ (# MZSP 20419), BRAZIL, Goiás, Uruaçu, 14°16.9'S, 48°55.7'W, 30.v.1996, yellow pans along permanent stream, Serra da Mesa Survey; 4 ♂ (# MZSP 20420-20423), BRAZIL, Goiás, [Niquelândia], 14°01.4'S, 48°18.5'W, 27.ix.1995, yellow pans along permanent stream, Serra da Mesa Survey; 2 ♀, 3 ♂ (# MZSP 20424-20428), same data except 28.ix.1995; 2 ♀, 4 ♂ (# MZSP 20429-20434), same data except 29.ix.1995; 2 ♀, 3 ♂ (# MZSP 20435-20439), same data except 30.ix.1995; 1 ♂ (# MZSP 20440), same data except 02.x.1995; 1 ♀, 2 ♂ (# MZSP 20441-20443), same data except 03.x.1995; 2 ♀, 2 ♂ (# MZSP 20444-20447), same data except 04.x.1995; 2 ♂ (# MZSP 20448-20449), same data except 05.x.1995.

Stephanoidea
Stephanidae
Stephaninae
***Aguiarina* Koçak & Kemal**

***Aguiarina arctatus* (Aguiar 1998): 399.**

(<http://hol.osu.edu/spmInfo.html?id=MZSP%2021661>)

Holotype: 1 ♀ (# MZSP 21661), [BRAZIL, Pará], Santarém, Fazenda Taperinha, 01-11.ii.1968, Exp[edição] Perm[amente da] Amaz[ônia]. Original name: *Hemistephanus arctatus* Aguiar, 1998.

RESUMO

O presente artigo apresenta uma lista dos espécimes tipo de Hymenoptera, excluindo os Aculeata, depositados no

Museu de Zoologia da Universidade de São Paulo, Brasil. São apresentadas as informações dos rótulos e também informações adicionais a partir dos registros do MZSP, de material publicado e de outras fontes disponíveis. Fotografias em alta resolução dos holótipos, lectótipos e sítipos estão disponibilizadas digitalmente através de links para o Specimage – o banco de dados de imagens da Ohio State University, onde estão depositadas. A coleção abriga um total de 332 espécimes-tipo (32 holótipos, 266 parátipos, 12 sítipos, 20 paralectótipos e dois lectótipos) pertencentes a oito superfamílias, 18 famílias, 31 subfamílias, 43 gêneros e 83 espécies.

PALAVRAS-CHAVE: Brasil; Insecta; Hymenoptera; lista de tipos; MZSP.

ACKNOWLEDGMENTS

HCO thanks FAPESP (Fundação de Amparo à Pesquisa do Estado de São Paulo) and CNPq (Conselho Nacional do Desenvolvimento Científico e Tecnológico) for post-doctoral grants (Proc. 2012/15875-0 and 150713/2010-0). This work was supported by grants from FAPESP Proc. 2010/16063-3 to CRFB. CRFB is a Research Fellow of CNPq. We are grateful to Dr. Valmir A. Costa for helping with the *Horismenus* bibliography, to Dr. Michel Paiva Valim and to Msc. Lívia P. Prado for providing the pictures of the species.

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Aceito em: 07/08/2014

Publicado em: 30/09/2014