Catalogue of Ditomyiidae and Diadocidiidae (Diptera: Bibionomorpha) types housed in the collection of the Museu de Zoologia da Universidade de São Paulo, Brazil

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Abstract. The Museu de Zoologia da Universidade de São Paulo (MZUSP), São Paulo, Brazil houses the largest and most representative Brazilian collection of Diptera. In the present study, following a recommendation of the International Code of Zoological Nomenclature, it is presented a catalogue of the type specimens of Diadocidiidae and Ditomyiidae (Diptera: Bibionomorpha) held in the collection of the MZUSP. Label data and the condition of preservation of 27 type specimens (nine holotypes, two paralectotypes, and 16 paratypes) of 14 Neotropical species are provided.

Key-Words. Nomenclature; Scientific collections; Taxonomy; Type specimens.

INTRODUCTION

Brazil is one of the world’s most biodiversity-rich countries and most of their more important scientific collections are deposited in the Museu de Zoologia da Universidade de São Paulo (MZUSP), São Paulo, Brazil. The MZUSP started activities in the second half of the 19th century and since then assumed a leading position in the world scenario. The MZUSP zoological collection has about 11 million specimens collected over the great morphoclimatic domains and Brazilian seas, as well as expeditions to other countries, although mostly from the Neotropical region (Tavares et al., 2015). The Diptera collection at this institution is the largest and the most representative in Brazil (Carvalho et al., 2002) being the largest and most important depository for Neotropical Diptera in Brazil and in South America. Additional information on the collection is available at www.mz.usp.br.

The family Diadocidiidae encompasses two genera with 24 extant described species in the world, 23 of which belong to the extant genus Diadocidia Ruthe, 1831, and only species assigned to a fossil genus from the Cretaceous amber from Katchin (Myanmar), Diadociadia, with one species, D. burmitica Blagoderov & Grimaldi, 2004. The genus Diadocidia is divided into three subgenera: D. (Adidocidia) Laštovka & Matile, 1972, D. (Diadocidia) Ruthe, 1831, and D. (Taidocidia) Papp & Ševčík, 2005 (Bechev & Chandler, 2011; Kjaerandsen, 2019). In the Neotropical region, Papavero (1977a) mentioned a single species of D. (Diadocidia) from Brazil and a second undescribed species from Chile. Jaschhof & Jaschhof (2007) described two species of D. (Diadocidia) from Costa Rica and Vockeroth (2009b) referred to an undescribed species from Mexico. The occurrence of the genus D. (Diadocidia) in Colombia is reported by Falaschi (2016b). Catalogues of the World and regional faunas (Argentina, Colombia and Brazil) of Diadociidiidae were presented, respectively by Bechev & Chandler (2011), Falaschi & Amorim (2014b) and Falaschi (2016b, 2019a).

Ditomyiidae, as well as Diadociidiidae, are families of gnats belonging to the suborder Bibionomorpha. The family comprises eight genera and more than 100 species described worldwide (Vockeroth, 2009a), but absent in the Afrotropical region. In the Neotropical region, four genera and 35 species are recorded (Munroe, 1974, Papavero, 1977b; Amorim et al., 2002; Huerta & Amorim,
MATERIALS AND METHODS

The list given below is in alphabetical order of subfamily, genus, and epithet. Names, combinations, and spellings follow the available catalogues of Ditomyiidae and Diadocidiidae (Papavero, 1977a, 1977b; Bechev & Chandler, 2011). The standard for reproducing the information on the labels follows previous catalogues of type specimens of Diptera housed in the Museu de Zoologia da Universidade de São Paulo (MZUSP), Brazil (Fachin & Lamas, 2015; Falaschi et al., 2016; Mello & Lamas, 2011; Yamaguchi & Lamas, 2009). All types specimens listed here are dry-pinned and slide-mounted specimens. High-resolution photographs will be subsequently provided for most primary types at MZUSP’s homepage (www.mz.usp.br).

Acronyms used for the depositories

CAIM = Colección de Artrópodos con Importancia Médica, México City, Distrito Federal, Mexico.
CAS = California Academy of Sciences, San Francisco, California, USA.
MZUSP = Museu de Zoologia da Universidade de São Paulo, São Paulo, São Paulo, Brazil.
BMNH = The Natural History Museum, London, UK.

RESULTS

Family Diadocidiidae Winnertz, 1863
Diadocidia (Diadocidia) stanfordensis Arnaud & Hoyt, 1956

Arnaud & Hoyt, 1956: 87 (original description), figs. A-E (male genitalia, male wing, female genitalia). Ref. – Bechev & Chandler, 2011: 51 (catalogue). Type locality: USA, California. Distr. – Nearctic: USA, California. Holotype ♂, CAS.

2 Paratypes ♂ with labels: (1) handwritten on yellow paper: “Stanford Univ. [Stanford University] | Santa Clara Co. CAL. [Santa Clara County, California] | 26 Jan. 53 [26.i.1953] | P.H. Arnaud”; (2) printed with handwritten inscriptions on yellow paper: “PARATYPE | Diadocidia | stanfordensis | Arnaud & Hoyt”; printed on white paper: “MZ004373”.

Table 1. Type specimens of Diadocidiidae and Ditomyiidae held in the MZUSP, in alphabetical order of family, genus and species epithet, with reference to the number of specimens, males, and females, for each type category.

| Family Diadocidiidae | Family Ditomyiidae |
|----------------------|---------------------|
| Diadocidia stanfordensis Arnaud & Hoyt, 1956 | Calliceratomyia servillensis Falaschi, 1959 |
| ♂ | ♂ |
| 2 | 1 |

Condition of paratypes: Both pinned. One entire and the other with right wing slide-mounted on coverslips, pinned with the specimen. Missing parts: none.

Family Ditomyiidae Keilin, 1919
Genus Australosymmerus Freeman, 1954
Australosymmerus (Melosymmerus) bisetosus (Edwards, 1940)

Edwards, 1940: 442 (original description). Lane, 1946a: 339 (redescription, fig. 1 (male genitalia); Munroe, 1974: 65 (redescription), figs. 35 (male genitalia), 61 (female genitalia), 65b (wing), 73 (physology); Papavero, 1977b: 19B.2 (catalogue), Falaschi & Amorim, 2013: 123 (lectotype designation). Type locality: Brazil, Santa Catarina, Seara, Nova Teutônia. Distr. – Neotropical: Brazil (Santa Paulo, Santa Catarina). Lectotype ♂, BMNH.

Paratype ♂ with labels: (1) printed on white paper: “PARATYPE | Australosymmerus (Melosymmerus) | bisetosus (Edwards, 1940) | Designated by Falaschi, RL & | Amorim, DS”; (2) printed on white paper: “MZ004473”; (3) printed with handwritten inscriptions on white paper: “9.7 1938 | Brasilien | Nova Teutonia | 27°11’8.52’S 52°23’W | Fritz Plaumann”; (4) printed on white paper: “Brit.Mus. | 1938-682.”; (5) handwritten on white paper: “Centrocemis | bisetosa Edw.”; (6) printed on rounded yellow paper: “Paratypes”. Microivial with labels: (1) printed on yellow paper: “Paratype”; (2) printed with handwritten inscriptions on yellow paper: “BRASIL, SC, Nova Teutônia | 27°11’S 52°23’W” | Fritz Plaumann col. | P”; (3) printed on white paper: “PARATYPE | Australosymmerus (Melosymmerus) | bisetosus (Edwards, 1940) | Designated by Falaschi, RL & | Amorim, DS”.

Microivial with labels: (1) printed on yellow paper: “Paratype”;

Microivial with labels: (2) printed with handwritten inscriptions on yellow paper: “BRASIL, SC, Nova Teutônia | 27°11’S 52°23’W” | Fritz Plaumann col. | P”; (3) printed on white paper: “PARATYPE | Australosymmerus (Melosymmerus) | bisetosus (Edwards, 1940) | Designated by Falaschi, RL & | Amorim, DS”;

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2016). Catalogues of the Neotropical and regional faunas (Argentina, Colombia and Brazil) of Ditomyiidae were presented, respectively by Papavero (1977b), Falaschi & Amorim (2014a) and Falaschi (2016a, 2019b).

Following a recommendation of the International Code of Zoological Nomenclature (ICZN, 1999: 72F.4), the present paper provides a catalogue with information on 27 type specimens (nine holotypes, two paralectotypes and 16 paratypes) of 14 Neotropical species of the families Diadocidiidae (one species) and Ditomyiidae (13 species) held in the collection of the MZUSP (Table 1).
Australosymmerus (Melosymmerus) bororo  
(Lane, 1946)

Lane, 1946a: 342 (original description), fig. 8 (male genitalia). Ref. – Papavero, 1977b: 19B.2 (catalogue).  
Type locality: Brazil, Rio de Janeiro, Itatiaia. Distr. – Neotropical: Brazil (Rio de Janeiro, São Paulo).  
Holotype ♂, MZUSP.  
Holotype ♂ with labels: (1) printed on pink paper: “HOLOTIPO”; (2) handwritten on white paper: “IX.46 [ix.1946] | R. Janeiro [Rio de Janeiro] | Itatiaia | Barreto col.;” (3) printed with handwritten inscriptions on white paper: “Centrocemis | bororo | det. John Lane 1946”; (4) printed on white paper: “MZ004490”; (5) printed on white paper: “MZ004490”.  
Slide with labels: (1) printed on white paper: “MZ004490”; (2) printed on red paper: “HOLOTIPO”; (3) printed on white paper: “BRASIL, Rio de Janeiro | Itatiaia | ix.1946 | Barreto col.”

Condition of holotype: Pinned. Right wing and male terminalia on a permanent slide; broken undetermined legs glued on triangle. Missing parts: undetermined legs.

Paratype ♂ with labels: (1) printed on pink paper: “ALOTIPO”; (2) handwritten on white paper: “IX.46 [ix.1946] | R. Janeiro [Rio de Janeiro] | Itatiaia | Barreto col.;” (3) printed with handwritten inscriptions on white paper: “Centrocemis | bororo | det. John Lane 1946”; (4) printed on white paper: “MZ004489”; (5) printed on white paper: “MZ004489”.  
Slide with labels: (1) printed on white paper: “MZ004489”; (2) printed with handwritten inscriptions on white paper: “BRASIL, Rio de Janeiro | Itatiaia | ix.1946 | Barreto col. | M. bororo | ALÖTIPO”.

Condition of paratype: Pinned. Left wing left fore and mid legs on the permanent slide; female terminalia slide-mounted on coverslips, pinned with the specimen. Missing parts: none.

Australosymmerus (Melosymmerus) guarani  
(Lane, 1946)

Lane, 1946a: 341 (original description), fig. 4 (male genitalia). Ref. – Papavero, 1977b: 19B.2 (catalogue).  
Type locality: Brazil, São Paulo, Cantareira. Distr. – Neotropical: Brazil (Goiás, São Paulo, Santa Catarina).  
Holotype ♂, MZUSP.  
Holotype ♂ with labels: (1) printed on pink paper: “HOLOTIPO”; (2) printed with handwritten inscriptions on white paper: “S. Paulo [São Paulo] 9.x.45 [09.x.1945] | Cantareira | J. Lane coll.;” (3) printed with handwritten inscriptions on white paper: “Centrocemis | Guarani | det. John Lane 1946”; (4) printed on white paper: “MZ004501”; (5) printed on white paper: “MZ004501”.  
Slide with labels: (1) printed on white paper: “MZ004501”; (2) printed on red paper: “Holotype”; (3) printed with handwritten inscriptions on white paper: “BRASIL, SP, Cantareira | 09.x.1945 | J. Lane col. | M. guarani”; (4) printed on white paper: “MZ004626”.

Condition of holotype: Pinned. Male terminalia on the permanent slide. Missing parts: none.

Paratype ♂ with labels: (1) printed on pink paper: “PARATIPO”; (2) printed with handwritten inscriptions on white paper: “S. Paulo [São Paulo] 9.x.45 [09.x.1945] | Cantareira | J. Lane coll.;” (3) printed with handwritten inscriptions on white paper: “Centrocemis | guarani | det. John Lane 1946”; (4) printed on white paper: “MZ004627”.

Condition of paratype: Pinned. Missing parts: abdomen.

Paratype ♂ with labels: (1) printed with handwritten inscriptions on white paper: “S. Paulo [São Paulo] 9.x.45 [09.x.1945] | Cantareira | J. Lane coll.;” (2) printed on pink paper: “PARATIPO”; (3) printed with handwritten inscriptions on white paper: “Centrocemis | guarani | det. John Lane 1946”; (4) printed on white paper: “MZ004505”; (5) printed on white paper: “MZ004505”.  
Slide with labels: (1) printed on white paper: “BRASIL, São Paulo, Cantareira | 9.x.1945 [09.x.1945] | Lane col. | A. (Melosymmerus) guarani”; (2) printed on yellow paper: “Paratype”; (3) printed on white paper: “MZ004505”.

Condition of paratype: Pinned. Male terminalia on the permanent slide. Missing parts: none.

Paratype ♂ with labels: (1) handwritten on white paper: “15.x.45 [15.x.1945] | S. Paulo [São Paulo] | Cantareira | Barreto”; (2) printed on pink paper: “PARATIPO”; (3) printed with handwritten inscriptions on white paper: “Centrocemis | guarani | det. John Lane 1946”; (4) printed on white paper: “MZ004625”.  
Slide 1 with labels: (1) printed on white paper: “MZ004625”; (2) printed on white paper: “BRASIL, São Paulo | Cantareira | 15.x.1945 | Barreto col.;” (3) hand-
written on white paper: "M. guarani"; (4) printed on yellow paper: "Paratype".  
Slide 2 with labels: (1) printed on white paper: "BRASIL, São Paulo | Cantareira | 15.x.1945 | Barreto col.; (2) printed on white paper: "MZ004625"; (3) printed on yellow paper: "Paratype".

Condition of paratype: Pinned. Antennae damaged; right wing and left mid leg on the permanent slide 1; male terminalia on the permanent slide 2. Missing parts: none.

Paratype ♂️ with labels: (1) printed on white paper: "S. Paulo [São Paulo] XII.40 [xii.1940] | Cantareira | J. Lane coll.; (2) printed on pink paper: "PARATIPO"; (3) printed with handwritten inscriptions on white paper: "Centrocnemis | guarani | det. John Lane 1946"; (4) printed on white paper: "MZ004504".  
Slide with labels: (1) printed on white paper: "BRASIL, Goiás | Corumbá [Corumbá de Goiás] | Baretto-col.; (2) printed on green paper: "Parátipo"; (3) printed with handwritten inscriptions on white paper: "Centrocnemis guayanasi | det. John Lane 1946"; (4) printed on white paper: "MZ004496".  
Microvial with labels: (1) printed on white paper: "BRASIL, GO, Corumbá [Corumbá de Goiás] | xi.1945 | Barreto col.; (2) printed on green paper: "Parátipo"; (3) printed on white paper: "MZ004503".  
Slide with labels: (1) handwritten on white paper: "M. guaraní 1 | Parátipo | Brasil, GO, Corumbá [Corumbá de Goiás] | Barreto col. | xi.1945"; (2) printed on green paper: "Parátipo"; (3) printed on white paper: "MZ004503".

Condition of paratype: Pinned. Male terminalia on the permanent slide. Missing parts: right fore and mid femora, tibiae and tarsi.

Paratype ♂️ with labels: (1) handwritten on white paper: "XI.45 [xi.1945] Goiáz [Goiás] | Corumbá [Corumbá de Goiás] | Baretto-col.; (2) printed on pink paper: "PARATIPO"; (3) printed with handwritten inscription on white paper: "Centrocnemis | guarani | det. John Lane 1946"; (4) printed on white paper: "MZ004503".  
Slide with labels: (1) handwritten on white paper: "MZ004503".  
Microvial with labels: (1) printed with handwritten inscriptions on white paper: "São Paulo | Campos do Jordão | XII.45 [xii.1945] | C. Jordão [Campos do Jordão] | J. Lane coll."; (3) printed with handwritten inscriptions on white paper: "Centrocnemis guayanasi | det. John Lane 1946"; (4) printed on white paper: "MZ004496".  
Microvial with labels: (1) printed with handwritten inscriptions on white paper: "MZ004496"; (2) printed with handwritten inscriptions on white paper: "BRASIL, São Paulo | Campos do Jordão | xii.1945 | J. Lane col. | M. guayanasi"; (3) printed on red paper: "HOLOTYPE".

Condition of holotype: Pinned. Wings and male terminalia on the permanent slide. Missing parts: none.

Paratype ♂️ with labels: (1) printed on pink paper: "PARATIPO"; (2) printed with handwritten inscriptions on white paper: "S. Paulo XII.45 [xii.1945] | C. Jordão [Campos do Jordão] | J. Lane coll."; (3) printed with handwritten inscriptions on white paper: "Centrocnemis guayanasi | det. John Lane 1946"; (4) printed on white paper: "MZSP [MZUSP]"; (5) printed on white paper: "MZ004497".

Condition of paratype: Pinned. Male terminalia slide-mounted on coverslips, pinned with the specimen. Missing parts: antennae, right wing, hind tibiae and tarsi, right fore femur, tibia and tarsus, left fore tarsus and both mid tarsi broken.

Australosymmerus (Melosymmerus) guayanasi  
(Lane, 1946)

Lane, 1946a: 340 (original description), fig. 2 (male genitalia). Ref. – Papavero, 1977b: 198.2 (catalogue). Type locality: Brazil, São Paulo, Campos do Jordão. Distr. – Neotropical: Brazil (São Paulo). Holotype ♂️, MZUSP.  
Holotype ♂️ with labels: (1) printed on pink paper: "HOLOTIPO"; (2) printed with handwritten inscriptions on white paper: "São Paulo XII 45 [xii.1945] | C. Jordão [Campos do Jordão] | det. J. Lane coll."; (3) printed with handwritten inscriptions on white paper: "Centrocnemis guayanasi | det. John Lane 1946"; (4) printed on white paper: "MZSP [MZUSP]"; (5) printed on white paper: "MZ004496".

Condition of holotype: Pinned. Wings and male terminalia on the permanent slide. Missing parts: none.

Paratype ♂️ with labels: (1) printed on pink paper: "PARATIPO"; (2) printed with handwritten inscriptions on white paper: "S. Paulo XII.45 [xii.1945] | C. Jordão [Campos do Jordão] | J. Lane coll."; (3) printed with handwritten inscriptions on white paper: "Centrocnemis guayanasi | det. John Lane 1946"; (4) printed on white paper: "MZSP [MZUSP]"; (5) printed on white paper: "MZ004497".

Australosymmerus (Melosymmerus) lenkoi  
(Lane, 1959)

Lane, 1959: 105 (original description), fig. 12 (male genitalia). Ref. – Papavero, 1977b: 198.2 (catalogue). Type locality: Brazil, Amapá, Serra do Navio. Distr. – Neotropical: Brazil (Amapá). Holotype ♂️, MZUSP.
Holotype $\sigma$ with labels: (1) printed on pink paper: “HOLOTIPO”; (2) printed with handwritten inscriptions on white paper: “Serra do Navio | Terr. Amapá BRASIL | 20/X-1957 [20.iX.1957] | J. Lane [John Lane] leg.”; (3) printed with handwritten inscriptions on white paper: “Australosymmerus | lenkoi | det. John Lane 1959”; (4) printed on white paper: “MZSP [MZUSP]”; (5) printed on white paper: “M004495”.

Slide with labels: (1) printed on white paper: “MZ004495”; (2) printed on white paper: “BRASIL, Amapá | Serra do Navio | 20.iX.1957 | J. Lane (John Lane) col.”; (3) handwritten on white paper: “M. lenkoi”; (4) printed on red paper: “HOLOTYPE”.

**Condition of holotype:** Pinned. Left wing and male terminalia on the permanent slide. Left antenna broken. Missing parts: none.

*Australosymmerus (Melosymmerus) pediferus (Edwards, 1940)*

Edwards, 1940: 443 (original description). Ref. – Munroe, 1974: 67 (redescription), figs. 36 (male genitalia), 65c (wing), 73 (phylogeny); Papavero, 1977b: 19B.3 (catalogue); Falaschi & Amorim, 2013: 123 (lectotype designation). **Type locality:** Brazil, Santa Catarina, Seara, Nova Teutônia. Distr. – Neotropical: Brazil (Mato Grosso do Sul, São Paulo, Santa Catarina). Lectotype $\sigma$, BMNH.

Paratype $\sigma$ with labels: (1) printed on white paper: “PARALECTOTYPE | Australosymmerus (Melosymmerus) pediferus (Edwards, 1940) | Designated by Falaschi, RL & | Amorim, DS”; (2) printed on white paper: “Holotype”.

Paratype with labels: (1) printed on white paper: “BRASIL, Amapá | Serra do Navio | 20.iX.1957 | J. Lane (John Lane) col.”; (3) handwritten on white paper: “M. lenkoi”; (4) printed on red paper: “HOLOTYPE”.

**Condition of paratype:** Pinned. Terminalia slide-mounted on coverslips, pinned with the specimen; right wing broken on the permanent slide; abdomen and hind legs in microivial. Missing parts: right antenna.

*Calliceratomyia* pantelhomyia (Huerta & Amorim, 2016)

Huerta & Amorim, 2016: 435 (original description), figs. 3, 6 (antenna), fig. 8 (male head), fig. 9 (maxillary palpus), fig. 11 (wing), figs. 14, 17, 19 (male terminalia). **Type locality:** Mexico, Chiapas, Pantelho. Distr. – Neotropical: Mexico (Chiapas). Holotype $\sigma$, CAIM.

**Condition of paratype:** Pinned. Male terminalia on the permanent slide. Missing parts: none.

**Genus Calliceratomyia Lane, 1946**

*Calliceratomyia pantelhomyia*

Huerta & Amorim, 2016

*Calliceratomyia Lane, 1946*
**Calliceratomyia papaveroi** Huerta & Amorim, 2016

Huerta & Amorim, 2016: 431 (original description), fig. 1 (male habitus), figs. 2, 5 (male antenna), fig. 10 (wing), fig. 13, 16 (male terminalia). **Type locality:** Mexico, Oaxaca, Municipio Santo Domingo Petapa. Distr. – Neotropical: Mexico (Oaxaca). Holotype ♀, C.AIM.

2 Paratypes ♀ with labels: (1) printed on pink paper: “HOLOTIPO”; (2) handwritten on white paper: “MZ004482”; (3) printed on white paper: “MEXICO, Oaxaca, Mpio. [Municipio] Santo Domingo Petapa, Loc. Rio del Sol | Malaise trap, 480 m.a.s.l. | 29-30-Jul-2009 (29-30. vii.2009) | -95°14′13″N; 16°56′55″W | Col. Salceda, S.B., Rodriguez, A.J. & Ordoñez, A.”.

Condition of holotype: Pinned. Male terminalia on a permanent slide. Missing parts: antennae and all left femur, left tibia and left tarsus.

Paratype ♀ with labels: (1) printed on pink paper: “ALOTIPO”; (2) handwritten on white paper: “IX.49 [ix.1949] S. Paulo [São Paulo] | Boracea | L. Travassos”; (3) printed with handwritten inscriptions on white paper: “Nervijuncta | Marshalli | det. John Lane 1949”; (4) printed on white paper: “MZSP [MZUSP]”; (5) printed with handwritten inscriptions on white paper: “Nervijuncta laffooni | Falaschi, R.L. det. 2008”; (6) printed on white paper: “MIZ004482”.

Slide with labels: (1) printed on white paper: “MIZ004482”; (2) printed with handwritten inscriptions on white paper: “Nervijuncta laffooni | Falaschi, R.L. det. 2008”; (3) handwritten on white paper: “S. Paulo [São Paulo], Boracea | ix.1949 | L. Travassos | (Alotipo)”; (4) printed on yellow paper: “Paratype”.

Condition of paratypes: slide-mounted. Missing parts: none.

**Calliceratomyia pectinata** Lane, 1946

Lane, 1946b: 244 (original description), fig. 1 (antenna), fig. 2 (male terminalia), fig. 3 (wing). Ref. – Papavero, 1977b: 198.4 (catalogue). **Type locality:** Brazil, São Paulo, Campos do Jordão. Distr. – Neotropical: Brazil (São Paulo). Holotype ♀, MZUSP.

Holotype ♀ with labels: (1) printed with handwritten inscriptions on white paper: “Inst. de Higiene de S. Paulo [Instituto de Higiene de São Paulo] | PARASITOLOGIA | Calliceratomyia pectinata | ♀ Holotipo | S. Paulo [São Paulo] | C. Jordão [Campos do Jordão] | xii.1945 | J. Lane [John Lane]”; (2) printed on red paper: “Holotype”; (3) printed on white paper: “MZ004475”; (4) printed with handwritten inscriptions on white paper: “№ 5944 | Lamina 1508 | Divisão I | Gaveta 159”.

Condition of holotype: Slide-mounted. Missing parts: none.

**Genus Neocrionisca** Papavero, 1977

Neocrionisca collessi Papavero, 1977

Papavero, 1977b: 198.3 (original description). **Type locality:** Argentina, Tierra del Fuego. Distr. – Argentina (Tierra del Fuego). Holotype ♀, MZUSP.

Holotype ♀ with labels: (1) handwritten on white paper: “Tierra del Fuego _ _ 4-24-III-948 [04-24.iii.1948] | coll. Budin”; (2) printed on pink paper: “HOLOTIPO”; (3) handwritten on white paper: “Neocrionisca | collessi, gen & sp.n. | Papavero & | Bernardi, 1977”; (4) printed on white paper: “MIZ004428”.

Condition of holotype: Pinned. Entire abdomen with terminalia on the permanent slide. Missing parts: head, wings, fore and hind legs.

**Genus Nervijuncta** Marshall, 1896

Nervijuncta laffooni Lane, 1952

Lane, 1952: 139 (new name for *N. marshalli* Lane, 1948). Ref. – Lane, 1948: 250 (original description), figs. 5-7 (male genitalia); Papavero, 1977b: 198.4 (catalogue); Falaschi & Amorim, 2009: 20 (redescription), figs. 1 (antennal flagellomere), 2 (thorax), 3 (wing), 4-6 (male terminalia), 7 (female terminalia). **Type locality:** Brazil, São Paulo, Salesópolis, Estação Biológica de Boracéia. Distr. – Brazil (São Paulo, Santa Catarina). Holotype ♀, MZUSP.

Holotype ♀ with labels: (1) printed on pink paper: “HOLOTIPO”; (2) printed on white paper: “BR-S.P. Salesópolis | (Boracea) 14-VIII-1947 [14.viii.1947] | E. Rabello & Trav.F. | & J.Lane”; (3) handwritten and printed ed inscriptions on white paper: “Nervijuncta | Marshalli | det. John Lane 1948”; (4) printed on white paper: “MZSP [MZUSP]”; (5) printed with handwritten inscriptions on white paper: “Nervijuncta | laffooni | Falaschi, R.L. det. 2008”; (6) printed on white paper: “MIZ004480”.

Condition of holotype: Pinned. Male terminalia on the permanent slide. Missing parts: antennae and all left femur, left tibia and left tarsus.

Paratype ♀ with labels: (1) printed on pink paper: “ALOTIPO”; (2) handwritten on white paper: “IX.49 [ix.1949] S. Paulo [São Paulo] | Boracea | L. Travassos”; (3) printed with handwritten inscriptions on white paper: “Nervijuncta | Marshalli | det. John Lane 1949”; (4) printed on white paper: “MZSP [MZUSP]”; (5) printed on handwritten inscriptions on white paper: “Rhipidita | nigra | det. John Lane 1949”; (6) printed on white paper: “MIZ004439”.

Condition of paratypes: slide-mounted. Missing parts: antennae and right tarsus.

**Genus Rhipidita** Edwards, 1940

Rhipidita nigra Lane, 1952

Lane, 1952: 132 (original description), fig. 1 (male genitalia). Ref. – Papavero 1977b: 198.4 (catalogue). **Type locality:** Brazil, São Paulo, Campos do Jordão. Distr. – Brazil (São Paulo). Holotype ♀, MZUSP.

Holotype ♀ with labels: (1) printed on pink paper: “HOLOTIPO”; (2) handwritten on white paper: “VIII – 49 [viii.1949] S. Paulo [São Paulo] | C. Jordão [Campos do Jordão] | J. Lane [John Lane] – col.”; (3) printed with handwritten inscriptions on white paper: “Rhipidita | nigra | det. John Lane 1949”; (4) printed on white paper: “MZSP [MZUSP]”; (5) printed on white paper: “MIZ004439”.

Condition of holotype: Pinned. Wings and terminalia slide-mounted on coverslips, pinned with the specimen;
two undetermined legs glued on triangle. Missing parts: antennae, abdomen, right femora, tibiae, and tarsi, and left hind femur, tibia and tarsus.

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