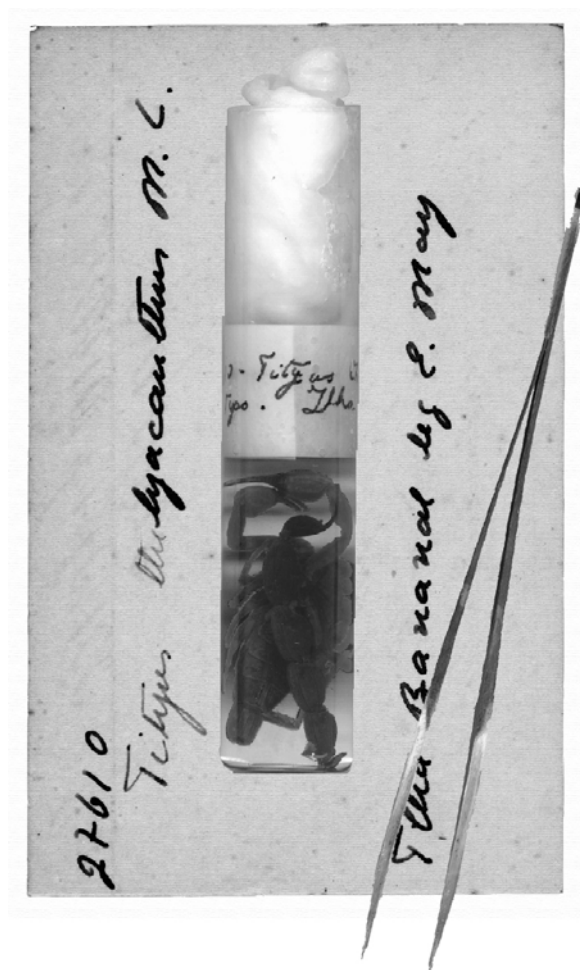


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Diagramação, composição e arte-final
L.M.S.Ribeiro & C.N.Ricci

Capa: Montagem de A.B.Kury

Scorpiones, Buthidae - *Tityus thelyacanthus* Mello-Leitão, 1939 (frasco com o holótipo e ficha original do catálogo, manuscrita por Mello-Leitão).

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ANNOTATED CHECK LIST OF TYPE SPECIMENS OF ARACHNIDA IN THE
MUSEU NACIONAL – RIO DE JANEIRO

I. SCORPIONES, PSEUDOSCORPIONES AND SOLIFUGAE ⁽¹⁾

(With 1 figure)

ADRIANO B. KURY ⁽²⁾
ANDRÉ L. C. NOGUEIRA ⁽³⁾
Museu Nacional
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This paper is part of a series intended to treat comprehensively the fate of the type material of species of Arachnida deposited in the Museu Nacional – Rio de Janeiro, Rio de Janeiro, Brazil.

The Museu Real (Royal Museum) of Rio de Janeiro was founded in 1818. In 1922 it has been renamed Museu Nacional (MNRJ). In 1946 it has been embodied by the Universidade Federal do Rio de Janeiro. The collection of the MNRJ started to be formed thanks to the effort of the traveling naturalists (*e.g.*, Fritz Müller, Emílio Goeldi), a position that was extinguished in 1915, and later by the collections of the naturalists. Among the latter, those who contributed with arachnological material may be cited Eduardo May (entered MNRJ in 1921), Mário Rosa (entered 1922), Herbert Berla (entered 1931), Roger Arlé (entered 1935) and Oton Leonardos (entered 1939).

The arachnologist Cândido Firmino de Mello-Leitão (☆ July 17, 1886 – † Dec. 14, 1948) published for more than thirty years and contributed almost 200 papers on Arachnida, describing hundreds of species, of which most types were deposited in MNRJ. Mello-Leitão had a position as professor in the Museu Nacional from April 1931 to December 1937. The private collection of Mello-Leitão, composed of 2341 specimens, has been purchased by the Museu Nacional in December 1929 (Fig.1). Mello-Leitão also visited many other institutions and described species based on their material. Type material of species described by Mello-Leitão is in Instituto Butantan (IBSP); Museo Argentino de Ciencias Naturales Bernardino Rivadavia (MACN); Museo de La Plata (MLP); Museu de História Natural Capão da Imbuia (MHCI); Museu de Zoologia, Universidade de São Paulo (MZSP) and Muséum National d'Histoire Naturelle, Paris (MNHN).

The aim of the appendix 1 is to list type material of Mello-Leitão which repository has not been cited by the original description and which should be or could be originally in the Museu Nacional, but which is either in other institutions or lost.

Other arachnologists deposited type material in the MNRJ after Mello-Leitão: Wolfgang Bücherl, Tomas Cekalovic, José L.A.Feio, Wilson Lourenço and Pablo San Martín.

Almost one fourth of the type specimens has been lost during the last decades (Tab.1), but now, with permanent curatorship, losses are expected to drop to naught and with the caption of new types, it is expected to return to its former dominant role in the neotropical arachnological collections. In this series, an attempt has been made to define by a literature survey which species could have type material in MNRJ. The next step has been a great effort to locate this material among unsorted, moldy and broken vials.

In the following lists, the species have been arranged in alphabetical order within each family. All localities have been checked to give at least an approximate location by state or province, including recent political changes (*e.g.*, Tocantins, Mato Grosso do Sul). Material can be either AVAILABLE (meaning that it is here, or under loan,

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³ Scholarship IC from Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq).

checked with the borrower), not located (meaning is it lost, eventually destroyed) or destroyed (when it is sure that the material has been rotten).

Details of type data follow model below: *Genus species* author, year, original reference synonymy, relevant additional literature, page, figures, number of specimens, status of type, MNRJ (collection number), country, state, locality, "transcription of labels", condition.

SCORPIONES

Mello-Leitão described more than 50 species of Scorpiones, of which most types should be in the MNRJ. Other authors such as Wolfgang Bücherl, Pablo San Martín, Tomas Cekalovic and Wilson Lourenço contributed with a smaller number of types. The material of Bothriuridae in this collection has been revised by BÜCHERL (1963).

BOTHRIURIDAE Simon, 1880

Brachistosternus castroi Mello-Leitão, 1941:231, fig.21

1♂ syntype (MNRJ 7045). CHILE, Atacama, Copiapó, col. Raúl Castro. AVAILABLE.

Bothriurus buecherli San Martín, 1963:400, figs.1-4

1♀ paratype (MNRJ 7039). URUGUAY, Maldonado, Cerro de Las Animas. "Bothriurus buecherli, San Martín 1961/C° de las Animas.- Maldonado.- Uruguay.-/Julio 13 de 1968.- paratipo n° 29, ♀ .-/bajo piedra.-/leg. Pablo Rubens San Martín". AVAILABLE. 1♂ paratype (MNRJ 7040). URUGUAY, Maldonado, Cerro de Las Animas. "Bothriurus buecherli, San Martín 1961/C° El Toro.- Maldonado.- Uruguay.-/Noviembre 29 de 1953.- paratipo n°12, ♂ -/bajo piedra.-/leg. P.R.San Martín, Luz Barreiro-". AVAILABLE.

Bothriurus candidoi Bücherl, 1963:194

=*Bothriurus rochai* Mello-Leitão, 1932: MAURY, 1982:258; 1981:100. 1♂ syntype (MNRJ 41815). BRAZIL. Ceará. AVAILABLE. 1♀ syntype (MNRJ 41817). BRAZIL. "Northeast". col R. von Ihering. AVAILABLE.

Bothriurus dispar Mello-Leitão, 1931c:90, figs. 12-13

=*Centromachetes pococki* (Kraepelin, 1894): MAURY, 1981:101. BÜCHERL, 1963:195; GALIANO & MAURY, 1979:324. ♀ paratype (MNRJ 21709) [♂ holotype in MACN 4821]. ARGENTINA. Buenos Aires. Laferrère [locality considered mistaken by MAURY, 1981:101]. Not located, but this material has been examined by Maury (GALIANO & MAURY, 1979:324).

Bothriurus dumayi Cekalovic, 1974:209, figs.1-10

Currently *Orobothriurus dumayi*: MAURY, 1975:21. MAURY, 1981:102. Unknown number of paratypes (MNRJ uncatalogued). CHILE. Antofagasta. Cuesta Paposo. Not located.

Bothriurus fragilis Mello-Leitão, 1934c:193, figs. 1-2

=*Bothriurus rochai* Mello-Leitão, 1932: BÜCHERL, 1959:11. BÜCHERL, 1963:199. ♂ holotype (MNRJ 41418). BRAZIL. Paraíba. Campina Grande. "Bothriurus fragilis (Mello-Leitao holotipo =B. rochai Mello-Leitao./E.Maury det. 1981" "MNRJ - B. rochai" "Bothriurus fragilis tipo 135/41418". AVAILABLE.

Bothriurus insularis Mello-Leitão, 1947:4, figs. 6-10

=*Bothriurus signatus* Pocock, 1893: BÜCHERL, 1963:201. BÜCHERL, 1963:200. 2♀ syntypes (MNRJ 7058). BRAZIL. Santa Catarina. Canasvieiras, Ilha do Francês. AVAILABLE.

Bothriurus magalhaensi Mello-Leitão, 1937a:100

=*Bothriurus araguayae* Vellard, 1934: FLORES-DA-CUNHA, 1961:1. MAURY, 1981:104. 2♀ syntypes (MNRJ 42504). BRAZIL. Minas Gerais. Queluz. "Bothriurus magalhaensi ML./Queluz (Minas)/42504" "Bothriurus araguayae Vellard/E.Maury det. 1979". AVAILABLE.

Bothriurus moojeni Mello-Leitão, 1945:179, figs.64-66

BÜCHERL, 1963:201. ♂ lectotype, 2♂ and 2♀ paralectotypes [design. SAN-MARTÍN, 1967:135] (MNRJ 42287). BRAZIL. Paraná. Foz do Iguacu. "Bothriurus moogeni typus; Iguassú - Parana". AVAILABLE. 2 paralectotypes (MNRJ 7037). BRAZIL. Paraná. Iguacu. "Tipus Bothriurus moojeni ML/iguassu-Paraná Moojen 5/frasco 10, XVIII". AVAILABLE.

Bothriurus peruvianus Mello-Leitão, 1948:315, pl.II, figs. 1-3

=*Orobothriurus peruvianus*: MAURY, 1975:20. BÜCHERL, 1963:198. ♀ holotype (MNRJ 7022). PERU. Junín. Tarma, 3100m. Weyrauch. "Bothriurus peruvianus typus"; "no.8 Tarma (Peru) 3100m. leg. Weyrauch" and "Orobothriurus peruvianus (Mello-Leitão) Maury det. 1975". AVAILABLE.

Bothriurus pringlosianus Mello-Leitão, 1931c:85, fig.1

=*Bothriurus flavidus* Kraepelin, 1911: BÜCHERL, 1959c:21. BÜCHERL, 1963:197; GALIANO & MAURY, 1979:325; MAURY, 1981:105. 1♂ paratype (MNRJ 11201). ARGENTINA. San Luis. Pringlos. AVAILABLE.

Bothriurus prospicuus Mello-Leitão, 1934d:88, figs. 24a-d

=*Bothriurus flavidus* Kraepelin, 1911: BÜCHERL, 1963:21. BÜCHERL, 1963:195; MAURY, 1981:105. ♂ paratype (MNRJ 21707). ARGENTINA. Buenos Aires. Laferrère. AVAILABLE.

Bothriurus rochensis San Martín, 1965:2,

pl.1, figs.1-3, pl.2, figs.1-3, pl.3, figs.1-6, pl.4 figs.1-3, 5-6

1♀ paratype (MNRJ 7018, orig. 2323) URUGUAY. Rocha. Parque Nacional San Miguel. "Bothriurus rochensis San Martín/ paratypus" and "Parque Nacional San Miguel Rocha/11/III/64/♀ bajo piedra col P R S M." AVAILABLE. 1♀ paratype (MNRJ 7019, orig. 2343) URUGUAY. Rocha. Parque Nacional San Miguel. "Bothriurus rochensis San Martín, 1965/paratipo n°2343 ♀ Depto. de Rocha-Uruguay/21/12/64/bajo piedra colector Pablo R. San Martín". AVAILABLE. 1♂ paratype (MNRJ 7020, orig. 2335) URUGUAY. Rocha. Parque Nacional San Miguel. "Bothriurus rochensis San Martín, 1965/ paratipo n°2335 ♂ Parque Nacional San Miguel Depto. de Rocha-Uruguay/ 21/12/63/ bajo piedra colector Pablo R. San Martín". AVAILABLE. 1♂ paratype (MNRJ 7021) URUGUAY. Rocha. Parque Nacional San Miguel. "Bothriurus rochensis San Martín/ paratypus"; "Parq Nac. San Miguel Depto Rocha/11/III/64/♂ bajo piedra col P R S M". AVAILABLE.

Bothriurus vachoni San Martín, 1968:38, pl.1, figs.1-5, pl.2, figs.6-11

MAURY, 1981:107. 1♂ paratype (MNRJ 41443). BRAZIL. Paraná. Morretes. AVAILABLE.

Bothriurus zeugma Mello-Leitão, 1945:194, figs. 77-79

=*Bothriurus rochai* Mello-Leitão, 1932: BÜCHERL, 1959:11. BÜCHERL, 1963:196; MAURY, 1981:108. 3♂ and 1♀ syntypes (MNRJ 7038). BRAZIL. Bahia. Rio Grande [and not Paran . Iguaçu as stated in the original description]. “Bothriurus zeugma Mello-Leitao | 4 sintypi. =B. rochai | Mello-Leitao / E.Maury det. 1981”, “Bothriurus zeugma typi | m. d. Rio Grande-Baia | leg. J.Moojen 8/3/42” “MNRJ - B. rochai” and “Rio Grande – m/d | 8 de março 1942”. AVAILABLE.

Centromachetes obscurus Mello-Leitão, 1932:16, fig.3

♀ holotype (MNRJ 7060, formerly in Private Collection Cezar Pinto, Instituto Oswaldo Cruz). CHILE. Valdivia. Valdivia. AVAILABLE.

Phoniocercus sanmartini Cekalovic, 1968:64, fig.1

1 paratype (MNRJ 7017). CHILE. Osorno. Vaquerías, Río Blanco. “Phoniocercus sanmartini Cekalovic, 1968/Scorpionida - Bothriuridae/Chile. Provincia de Osorno, Vaquerias Río Blanco/Nov.14, 64/Ecol. Animal Univ Chile col.” and “Prov. Osorno Vaquerías, Río Blanco/Nov.14, 64/Ecol. Animal coll”. AVAILABLE.

Urophonius granulosissimus Mello-Leitão, 1934a:13

=*Urophonius iheringi* Pocock, 1893: MAURY, 1977:152. ♀ holotype (MNRJ 41645). BRAZIL. Rio Grande do Sul. São Leopoldo. “Urophonius granulosissimus tipo/R.G^{de}/P.Rambo/41645”; “Urophonius granulosissimus ML hol tipo mat. Museu Nacional RJ” and “Urophonius iheringi Pocock E.Maury det. 1979”. AVAILABLE.

BUTHIDAE Simon, 1879

Ananteris deniseae Lourenço, 1997b:81, figs.1-6

♂ holotype (MNRJ 7061). BRAZIL. Paran . Corn lio Proc pio. “PROC: CORN LIO PROC PIO/COL: SILVA, V.P./DATA: 29.IX.93”. “Ananteris deniseae Holotype”. AVAILABLE.

Ananteris mariaterezae Lourenço, 1982:124, figs.13-14, 36, 47, 56, 64, 71, 79, 87-88

♀ holotype (MNRJ 7024). BRAZIL. Tocantins. Ilha do Bananal, Parque Nacional do Araguaia. “*Ananteris mariaterezae* femelle-holotype, RS-8500 [inventory number given by M.Vachon]. /Parque Nacional do Araguaia, Ilha do Bananal, Goias, Br sil/(mata-s ca, sous une pierre) col. E.K.Bastos, 24/V/1979 det. W.R.Lourenço, 1981” and “*Ananteris* sp. Ilha Bananal-PNA, sob pedra-mata proxima sede 24/5/79- WRL”. AVAILABLE.

Ananteris mauryi Lourenço, 1982:127, figs. 17-18, 38, 49, 58, 66, 73, 81, 91-92

♀ holotype (MNRJ 7023) BRAZIL. Para ba. Jo o Pessoa. “*Ananteris mauryi* femelle-holotype, RS-8501 [inventory number given by M.Vachon]. /Joao Pessoa, Para ba, Br sil (Mata atl ntica)/col. V.Py-Daniel, 15/V/1978/det. W.R.Lourenço, 1981”; “15/V/78 Mata-Atlantica dentro do biot rio-UFPb jo o Pessoa Pb-sob caixa”; “Biot rio-Zoologia embaixo de caixa de pre s - 15/V/78 col. V.Py-Daniel”. AVAILABLE.

Centruroides dasypus Mello-Leit o, 1948:316, figs.III 1-4

SISSOM & LOURENÇO, 1987:24. ♂ holotype, 2♀ paratypes (MNRJ 7050). PERU. Apurimac. Andahuaylas, 3000m col. Weyrauch “Centruroides dasypus Typus” “Andahuaylas (Peru). 3.000m/leg. Weyrauch.” AVAILABLE.

Physoctonus physurus Mello-Leitão, 1934b:76

=*Rhopalurus debilis* (Koch, 1841): FRANCKE, 1976:127. ♂ holotype (MNRJ 41823). "Physoctonus physurus tipo/276/41823"; "St^a Luzia-Paraíba"; "Physoctonus physurus tipo/276/[O.F.Francke 1975]/41823". BRAZIL. Paraíba. Soledade. AVAILABLE. This species has been originally described in Vaejovidae.

Tityus acutidens Mello-Leitão, 1933:202, figs.1-1a

♀ holotype (MNRJ 27781) BRAZIL. Tocantins. Ilha do Bananal. "27781-Tityus acutidens sp.n./Ilha do Bananal-Goyaz E.May det." AVAILABLE. The type locality could be a labelling error (W.Lourenço, MNHN, pers. comm.).

Tityus bahiensis uniformis Mello-Leitão, 1931b:130, fig.4

3 syntypes (MNRJ 7041) BRAZIL. Goiás. Veadeiros. "Tityus bahiensis uniformis. Subsp nova. M.leit. (Typus) 1130" "Goyaz-Veadeiros- Col. Blaser" AVAILABLE.

Tityus blaseri Mello-Leitão, 1931b:122, fig.1

♀ holotype (MNRJ 11282). BRAZIL. Goiás. Veadeiros. "11.282 - Tityus blaseri M.Leit./(Typus)/Rio São miguel/Goyas - Col. Blaser". AVAILABLE.

Tityus carvalhoi Mello-Leitão, 1945:318, figs.127-128

Holotype (MNRJ 7043). BRAZIL. Pará. Barra do Tapirapés. "Tityus carvalhoi typus | Barra do Tapirapés Leitão de Carv° leg." and "Specimen étudié en 1977 par W.Lourenço | n°8". AVAILABLE.

Tityus dasyurus fulvipes Mello-Leitão, 1945:406, figs.166-167

2♀ syntypes (MNRJ 7051). VENEZUELA. D.F. Caracas. "Tityus dasyurus fulvipes typus/Caracas Cordeiro leg". AVAILABLE.

Tityus evandroi Mello-Leitão, 1945:386, figs.157-158

(MNRJ 7049). ♀ holotype. BRAZIL. Pará. Igarapé Piratuba. "Tityus evandroi/typus/ Piratuba-Pará / Dr. Evandro Chagas col". AVAILABLE.

Tityus indecisus Mello-Leitão, 1934d:20. figs.2b-3b-6

♀ holotype (MNRJ 11324). BRAZIL. Mato Grosso [do Sul]. Campo Grande. AVAILABLE.

Tityus intermedius iophorus Mello-Leitão, 1931b:127

♀ holotype (MNRJ 11280) [= *Tityus dorsomaculatus* Lutz & Mello, 1922: MELLO-LEITÃO, 1945:372, figs.2-3]. BRAZIL. Rio de Janeiro. Rodeio. "Tityus iophorus, M.Leit./(typo)/ Rodeio - E. Rio" "11280" "Specimen étudié en 1977 par W.Lourenço". AVAILABLE.

Tityus kuryi Lourenço, 1997a:53, figs.1-7.

♀ holotype (MNRJ 7035). BRAZIL. Bahia. Palmeiras: Caeté-Açu. "Caeté-Açu, Palmeiras. BA/Subida p/cachoeira da Fumaça/(em poça) 27/01/94/col. P.S.Young & M.B.Pereira lote 45" and "Tityus kuryi/Holotype". AVAILABLE.

Tityus mazzae Mello-Leitão, 1932:18, figs.10, 10a-c

GALIANO & MAURY, 1979:328. 2♂ syntypes (MNRJ 26819). ARGENTINA. Jujuy. Not located.

Tityus munozi Lourenço, 1997a:56. figs.9-13

♀ holotype (MNRJ 7036) BRAZIL. Rio de Janeiro. Ilha de Itacuruçá, Águas Lindas. "Águas Lindas/Ilha de Itacurussá/E. do Rio - I-973/Braulio dos Prazeres" and "Tityus munozi/Types". AVAILABLE.

Tityus nematochirus Mello-Leitão, 1940a:54

♂ holotype (MNRJ 7052; said to be in the Museum of the Universidad de La Salle, Bogotá). COLOMBIA. Meta. Villavicencio. AVAILABLE. The arachnological collection of this institution has been destroyed during a fire in 1948 (W.Lourenço, MNHN, pers. comm.).

Tityus sampaiocrulsi Mello-Leitão, 1931a:283.

2♂ syntypes (MNRJ 11281). BRAZIL. Pará. Rio Cuminá. Not located.

Tityus sectus Mello-Leitão, 1934d:14, fig.5a

♀ holotype (MNRJ 27966). ARGENTINA. Santa Fé. Florencia. "27966 - "Tityus sectus sp.n." "Remite: Dr Mazza/Jujuy/V/33/29027/Florencia/Pcia. Santa Fé" "Tityus trivittatus/ Borelli/E.Maury det. 1971". AVAILABLE.

Tityus serrulatus vellardi Mello-Leitão, 1939b:60

♀ holotype (MNRJ). BRAZIL. Goiás. Catalão. Not located. This should be in MNRJ, because it has been recently examined by W.Lourenço, who published a redescription with photos of the holotype (LOURENÇO, 1981:355, figs.9-10).

Tityus thelyacanthus Mello-Leitão, 1933:201 figs.1-1a

=*Tityus charreyroni* Vellard, 1932: MELLO-LEITÃO, 1945:367. ♂ holotype (MNRJ 27610). BRAZIL. Tocantins. Ilha do Bananal. "27610 - Tityus thelyacanthus sp.n./Tipo. Ilha Bananal" "Tityus trivittatus charreyroni Vellard/J.Feio cf." AVAILABLE. The type locality could be a labelling error (W.Lourenço, MNHN, pers. comm.).

CHACTIDAE Pocock, 1893

Chactas (Euchactas) camposi Mello-Leitão, 1939a:147

♀ holotype (MNRJ uncatalogued). ECUADOR. Guayas. Guayaquil. Not located.

Teuthraustes brasilianus Mello-Leitão, 1931a:286, fig.2

=*Acanthothraustes brasiliensis* (Mello-Leitão, 1931); =*Euscorpium flavicaudis* (Geer, 1778): LOURENÇO & VACHON, 1981:225. ♂ holotype (MNRJ 11298). BRAZIL. Pará. Belém. AVAILABLE.

Teuthraustes guerdouxi Lourenço, 1995:202, figs.1-7

3 paratypes (MNRJ 7025). COLOMBIA. Boyacá. Otanche. "Teuthraustes guerdouxi - paratypes/Otanche, Dept. Boyaca, Colombie /IV/1986 (leg. Indiens de la Mine de Muzo) det. W.R.Lourenço, 1993" and "Teuthraustes guerdouxi n.sp Lourenço det. 1993/ 1♂ holotype 1♀ allotype/paratypes". AVAILABLE. The indication of holotype in the label is mistaken, the holotype is in the Museum of Geneva (W.Lourenço, MNHN, pers. comm.).

ISCHNURIDAE Simon, 1879

Opisthacanthus weyrauchi Mello-Leitão, 1948:313, figs.I 1-3

♀ holotype (MNRJ 7044). PERU. Cajamarca. Jaén, 700m col. Weyrauch "Opisthacanthus weyrauchi typus" "No.17/Jaén (PERU) 700m/leg. Weyrauch". AVAILABLE.

PSEUDOSCORPIONES

Mello-Leitão worked only *en passant* with this order, but José Lacerda de Araújo Feio (☆ April 21, 1912 - † September 17, 1973) described 11 species, and made reports on the biology of some. Type material is mounted on slides.

TRIDENCHTHONIIDAE Balzan, 1892

Neoditha irusanga Feio, 1945:11, figs.1-5

Type species of *Neoditha* Feio, 1945. ♂ holotype (MNRJ 10413, formerly MNRJ PS 80, entire animal) BRAZIL. Rio de Janeiro. Rio de Janeiro, Jacarepaguá, Represa dos Ciganos. "80 Holótipo ♂ *Neoditha irusanga* Feio, Represa dos Ciganos Jacarepaguá D.F, N.Santos e J.Feio col. J.Feio det". AVAILABLE. 1♀ (Allotype) (MNRJ PS 80, entire animal) BRAZIL. Rio de Janeiro. Rio de Janeiro, Jacarepaguá, Represa dos Ciganos. "80 Alotipo ♀ *Neoditha irusanga* Feio, Represa dos Ciganos Jacarepaguá D.F, N.Santos e J.Feio col. J.Feio det". AVAILABLE.

Verrucadithella francisi Feio, 1945:14, figs.6-7

♀ holotype (MNRJ 10412, formerly MNRJ PS 81, animal without one pedipalp) BRAZIL. Rio de Janeiro. Rio de Janeiro, Jacarepaguá, Represa da Covanca. "81 holotipo ♀ *Verrucadithella francisi* Feio, Represa da Covanca - Jacarepaguá; D.F. Francis Ivahnoé-col J.Feio det". AVAILABLE. (MNRJ PS 81, isolated pedipalp) "81 holotipo ♀ *Verrucadithella francisi* Feio, Represa da Covanca - Jacarepaguá; D.F. Francis Ivanhoé-col J.Feio det". AVAILABLE.

CHERNETIDAE Menge, 1855

Chelifer (Tullgrenia) bruchi Mello-Leitão, 1925:238, figs. 1, 1a, 1b

Currently *Sphenochernes bruchi*: MAHNERT, 1985:230. Holotype (MNRJ 10411, formerly MNRJ ML 13) ARGENTINA. Buenos Aires. La Plata, in nests of the ant *Acromyrmex Lundi* Guérin. "transcription of labels". Not located. Unlike what happened to *M. birabeni* (see below) this material is not in Museo de La Plata (Luis A. Pereira, MLP, pers. comm.).

Lamprochernes suraiurana Feio, 1945:21, figs. 13-17

Currently *Americhernes suraiurana*: MAHNERT, 1979:772. 1♀ paratype (MNRJ 10410, formerly MNRJ PS 111, entire animal) BRAZIL. Bahia. Taboleiro, near Bom Jesus da Lapa. "*Lamprochernes suraiurana* Feio, Alotipo ♀ Bom Jesus da Lapa. E. da Baía. Moojen Passareli col. J.Feio det". AVAILABLE.

Maxchernes birabeni Feio, 1960:77, figs. A-N

Type species of *Maxchernes* Feio, 1960. ♂ holotype, ♀ paratype, 1 nymph paratype (MNRJ 10409, formerly MNRJ PS 161) ARGENTINA. Jujuy. Fraile Pintado. "Three mounted microscopic slides". AVAILABLE.

Neochernes melloleitaoi Feio, 1945:32, figs. 25-27

1♀ paratype (MNRJ 10408, formerly MNRJ PS 20-16, entire animal) ARGENTINA. Santiago del Estero. Assusques. "20-16 Paratipo ♀ *Neochernes mello-leitaoi* Feio. Assusques - Santiago del Estero, Birabeni col. J.Feio. det". AVAILABLE.

Pachychernes baileyi Feio, 1945:26, figs. 18-24

2♂ 3♀ paratypes (MNRJ 10407, formerly MNRJ PS 109-110, entire animals) BRAZIL. Bahia. Barreiras. "*Pachychernes baileyi* Feio, Alotipo ♀, Barreiras, E. da Baia. J.B.Bailey col. J.Feio det". AVAILABLE. 1♀ paratype (MNRJ PS 110 b) BRAZIL. Bahia. Barreiras. "*Pachychernes baileyi* Feio, Paratipo♀ Barreiras E. da Baia. J.B.Bailey col. J.Feio det". Destroyed.

Pycnochernes guarany Feio, 1946:168, figs. 2-14

Currently *Americhernes guarany*: HARVEY, 1991:541. Total of 5♂ 14♀ in the type series; ♂ holotype (MNRJ 138C, entire animal); PARAGUAY. Isla Valle, in nests of hornero "138-c- holotipo ♂ *Pycnochernes guarany*, Feio. Isla Valle Paraguai. Miss. Cient. Bras. col. J.Feio det, 1944". AVAILABLE. ♀ allotype (MNRJ 10406, formerly MNRJ 138B); allotype (138A); paratypes (138I to 138XVII). "138-b- alotipo ♀ *Pycnochernes guarany*, Feio. Isla Valle Paraguai. Miss. Cient. Bras. col. J.Feio det, 1944". AVAILABLE.

Xenochernes caxinguba Feio, 1945:37, figs. 28-32

HARVEY, 1994:134. Type species of *Xenochernes* Feio, 1945. ♂ holotype (MNRJ PS 105) BRAZIL. Minas Gerais. Pirapora. "*Xenochernes caxinguba*, Feio 1945 R. 105 Western Australia. Mark S.Harvey". AVAILABLE. 3 paratypes (MNRJ 10405, formerly MNRJ PS 105a, chelicera; 105b, leg I and leg IV; 105d, pedipalp and 105e leg I and leg IV) BRAZIL. Minas Gerais. Pirapora. "105d Paratipo *Xenochernes caxinguba* Feio Pirapora E. de Minas, Moojen & Passareli col. J.Feio det". AVAILABLE.

WITHIIDAE Chamberlin, 1931

Victorwithius monoplacophorus Feio, 1944:1, figs. 1-11

Currently *Parawithius (Victorwithius) monoplacophorus*: BEIER, 1959:216 [type species of *Victorwithius* Feio, 1944]. ♂ holotype (MNRJ 139); ♀ allotype (MNRJ 140b); 1♂ paratype (MNRJ 10404, formerly MNRJ L. 140a); ♂♀ paratypes (MNRJ 141-142, two entire animals). BRAZIL. Paraná. União da Vitória, Bituruna, Fazenda Etienne. "Victorwithius monoplacophorus União da Vitória. Paraná; Victor Stawiarsky col. 12, 943; J.Feio det. 1944". AVAILABLE. 1 paratype (MNRJ PS L. 142, one pedipalp) BRAZIL. Paraná. União da Vitória, Bituruna, Fazenda Etienne. "Victorwithius monoplacophorus União da Vitória. Paraná; Victor Stawiarsky col. 12, 943; J.Feio det. 1944". AVAILABLE.

GEOGARYPIDAE Chamberlin, 1930

Ideobisium formosum Mello-Leitão, 1937b:269, unnumbered figure

Currently *Geogarypus formosus*: MAHNERT, 1979:752. ♂ holotype (MNRJ 10401). BRAZIL. Rio de Janeiro. Petrópolis, Morro de Caxambú. Not located.

Geogarypus itapemirinsensis Feio, 1941:241, unnumbered figure

1♀ paratype (MNRJ 10402, formerly MNRJ PS, entire animal) BRAZIL. Espírito Santo. Cachoeiro do Itapemirim. "Paratipo Geogarypus (Geogarypus) itapemirinsensis; Feio, 1941". AVAILABLE.

OLPIIDAE Banks, 1895

Serianus birabeni Feio, 1945:17, figs. 8-12

1♂ paratype (MNRJ 10403, formerly MNRJ PS L 6-54, entire animal) (MLP 6-54 "holotype and many paratypes"). ARGENTINA. La Rioja. Penas, Pinchas. "6-54 Paratipo ♂ *Serianus birabeni* Feio Penas - Pinchas La Rioja Birabeni col. J.Feio det". AVAILABLE.

SOLIFUGAE

The expected number of type specimens is 23, belonging to a total of 15 species, all described by Mello-Leitão. About one fourth of the Ammotrechidae and all the Mummuciidae have not been located or have been destroyed. The collection of Solifugae in the MNRJ has been revised by E.A.Maury in 1978.

AMMOTRECHIDAE Roewer, 1934

Ammotrecha araucana Mello-Leitão, 1942:310, figs. 7-9

♀ holotype (MNRJ 7046) CHILE. Casablanca, col. Gajardo Tobar. Not located.

Ammotrechella bolivari Mello-Leitão, 1942:309, figs. 4-6

♀ holotype (MNRJ 7008) MEXICO. Chiapas. La Esperanza, col. C.Bolivar. "Ammotrechella bolivari typus/La Esperanza/Mexico/C.Bolivar leg./La Esperanza/(Chis) 800m 19.ix.1939 C.Bolivar — D.Pelaez". AVAILABLE.

Ammotrechella boneti Mello-Leitão, 1942:312, figs. 10-11

♂ holotype (MNRJ 7010) MEXICO. Sinaloa. Mazatlán, col. D.Pelaez. "Ammotrechula boneti typus/Mazatlan-Mexico/S.Pelaez leg./Mazatlan, Sinaloa./En las casas 17.IX.40/ S.Pelaez". AVAILABLE.

Campostrecha felisdens Mello-Leitão, 1937c:85, figs. 4-9

1♀ holotype (MNRJ 1220) ECUADOR. Guayas. Guayaquil, col. F.Campos. AVAILABLE.

Dasycleobis crinitus Mello-Leitão, 1940b:301, figs. 1-5

4 juvenile syntypes (MNRJ 1325) ARGENTINA. Mendoza. Aconcagua, col. Ruiz Leal. "Dasycleobis crinitus typus/ Aconcagua/ Ruiz Leal leg./ 1325". AVAILABLE. Originally described in Mummuciidae, but belongs to the Ammotrechidae (E.Maury, MACN, pers. comm).

Eremoperna hystrix Mello-Leitão, 1942:307, fig.3

♂ holotype (MNRJ 7009) MEXICO. DF. México, col. F.Bonet. "Eremoperna hystrix typus/ Mexico DF/ Bonet leg./ Mexico DF/ IX-40/ F.Bonet". AVAILABLE. Originally described in Mummuciidae, but belongs to the Ammotrechidae (E.Maury, MACN, pers. comm).

Eremoperna ingens Mello-Leitão, 1942:305, figs. 1-2

♀ holotype (MNRJ 7007) MEXICO. DF. Villa Obregón col. C.Bolivar. "Eremoperna ingens typus/ Villa Obregón, DF. México/Prof. C.Bolivar leg". AVAILABLE. Originally described in Mummuciidae, but belongs to the Ammotrechidae (E.Maury, MACN, pers. comm).

Lelongia fidelis Mello-Leitão, 1938b:13, figs. 10-14

2 syntypes (MNRJ 58004) ARGENTINA. Mendoza. col. C.S.Reed. Destroyed.

Lelongia ornata Mello-Leitão, 1938b:15, figs. 65-70

1 paratype (MNRJ 58159) ARGENTINA. Mendoza. Chacras de Losa. "Lelongia ornata M-L/Chacras de Losa - Mendoza/58.159 Procleobis patagonicus (Holmberg)/ E.Maury det. 1981". AVAILABLE.

Mortola mortola Mello-Leitão, 1938b:26, figs. 22-27

♂ holotype (MNRJ uncatalogued). ARGENTINA. Mendoza. Mendoza, col. C.Reed. Not located.

Oltacola mendocina Mello-Leitão, 1938b:29, figs. 28-35

1 syntype (MNRJ 7047) and 2 syntypes (MNRJ 7048 formerly dry, pinned) ARGENTINA. Mendoza. Mendoza, col. C.Reed. AVAILABLE.

MUMMUCIIDAE Roewer, 1934

Cordobulgida bruchi Mello-Leitão, 1938b:19, figs. 71-75

♀ holotype (MNRJ 58035) ARGENTINA. Córdoba. Alta Gracia, col. C.Bruch. Not located.

Gaucha fasciata Mello-Leitão, 1924:141, figs. 24-25

♂ holotype (MNRJ 42682) and 2 paratypes (MNRJ uncatalogued) BRAZIL. Rio Grande do Sul. Porto Alegre. col. Rudolf Gliesch. Not located.

Mummucia exlinae Mello-Leitão, 1943:1

♀ holotype (MNRJ) PERU. Piura. Ayabaca, col. H.E.Frizell. Not located.

Uspallata pulchra Mello-Leitão, 1938b:21, figs. 44-48

♀ holotype (MNRJ 50223) ARGENTINA. Mendoza. Uspallata. Not located.

APPENDIX 1

TYPES OF MELLO-LEITÃO, OF UNKNOWN REPOSITORY OR PARTLY DEPOSITED IN OTHER MUSEUMS

SCORPIONES

BOTHRIURIDAE Simon, 1880

Bothriurus rochai Mello-Leitão, 1932:24, figs. 9a-c

♂ holotype (Museum [=Private collection] Rocha, Ceará). BRAZIL. Ceará. MAURY, 1982:258. Destroyed. The private museum of Mr. Rocha disappeared with his death, and all the material has been lost (W.Lourenço, pers. comm.).

Thestylus glazioui signatus Mello-Leitão, 1931c:97

♀ holotype [?] (Private collection Cezar Pinto, Instituto Oswaldo Cruz). Currently *Thestylus signatus*: MELLO-LEITÃO, 1945. BRAZIL. Rio de Janeiro. Rodeio. Destroyed. BUTHIDAE Simon, 1879

Rhopalurus lambdophorus Mello-Leitão, 1932:12, fig.8

1♂ holotype. (Museum [=Private collection] Rocha, Ceará). BRAZIL. Ceará. Destroyed. The private museum of Mr. Rocha disappeared with his death, and all the material has been lost (W.Lourenço, MNHN, pers. comm.).

Rhopalurus pintoi Mello-Leitão, 1932:11, fig.2

♂ holotype (Private collection Cezar Pinto, Instituto Oswaldo Cruz, Rio de Janeiro) BRAZIL. Amazonas. Tacutu River. Destroyed (W.Lourenço, MNHN, pers. comm.).

Tityus carinatus Mello-Leitão, 1937a:99

Praeocc. Koch, 1845 =*Tityus carinatoides* Mello-Leitão, 1945:382; replacement name. Repository unknown. ARGENTINA. Santa Fé. Not located.

Tityus charalensis Mello-Leitão, 1940a:53, not figured

♀ holotype (Museum of the Universidad de La Salle, Bogotá) COLOMBIA. Santander. Charalá. Destroyed. The arachnological collection of this institution has been destroyed during a fire in 1948 (W.Lourenço, MNHN, pers. comm.).

Tityus magnimanus interstitialis Mello-Leitão, 1939b:66

1♂ (Museum of Basel). VENEZUELA. Mérida. Mérida. Not located. Mello-Leitão, in 1936 visited some European museums. In the Museum of Basel he examined some material, which served as the basis for the description of this species, but he did not marked the type. Perhaps the type material has been removed to MNRJ and subsequently lost (LOURENÇO, 1987).

Tityus neglectus Mello-Leitão, 1932:424

♀ holotype (Repository unknown; ESALQ?). BRASIL. Rio Grande do Norte. Mello-Leitão, 1932:9. Not located. Lost, according to LOURENÇO & EICKSTEDT (1987). Probably once deposited in the Escola de Agricultura de Piracicaba "Luis de Queiroz" (W.Lourenço, MNHN, pers. comm.).

PSEUDOSCORPIONES

CHERNETIDAE Menge, 1855

Mesochernes australis Mello-Leitão, 1939d:118, fig.2

Syntypes (MLP 20.509; also in MNRJ?) ARGENTINA. Río Negro. Bariloche, Lago Moreno. Mello-Leitão, 1939d:118, fig.2. Not located in MNRJ.

TRIDENCHTHONIIDAE Balzan, 1892

Cecoditha parva Mello-Leitão, 1939d:116, fig.1

Type species of *Cecoditha* Mello-Leitão, 1939. Syntypes (MLP 20.503; also in MNRJ?) ARGENTINA. Chubut. Madryn. Mello-Leitão, 1939d:116, fig.1. Not located in MNRJ.

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RESUMO

CATÁLOGO COMENTADO DOS ESPÉCIMES-TIPO DE ARACHNIDA DO MUSEU NACIONAL. I. SCORPIONES, PSEUDOSCORPIONES E SOLIFUGAE

A coleção aracnológica do Museu Nacional – Rio de Janeiro, Brasil é repositório da maior parte dos espécimes-tipo de aracnídeos de espécies descritas por Cândido de Mello-Leitão e também de tipos de outros autores. Nessa coleção se inclui material-tipo de 43 espécies de Scorpiones, 13 espécies de Pseudoscorpiones e 15 espécies de Solifugae, totalizando 119 espécimes de 71 espécies dessas três ordens descritas no período 1924-1997. Cerca de um quarto dos espécimes foi perdido nas últimas décadas. Um apêndice é incluído contendo informação sobre material tipo de repositório indefinido e que podem ter sido depositados no MNRJ e depois destruídos.

Palavras-chave: catálogo de material-tipo, coleção científica de museu, Neotrópico, biodiversidade, fauna sul-americana.

ABSTRACT

The Arachnological Collection of the Museu Nacional – Rio de Janeiro, Brazil houses the major part of the arachnological type specimens of Cândido de Mello-Leitão, and also types of other authors. It includes type material of 43 species of Scorpiones, 13 species of Pseudoscorpiones and 15 species of Solifugae, summing up 119 specimens of 71 species of these three orders described in the period 1924-1997. About one fourth of the specimens have been lost in the last decades. An appendix is included containing information about the type material of undefined repository, which could have been deposited in the MNRJ and subsequently destroyed.

Key words: type-material catalog, natural history museum collection, Neotropics, biodiversity, South American fauna.

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TABLE 1

SUMMARY OF REMNANT TYPE MATERIAL IN MUSEU NACIONAL – RIO DE JANEIRO, WITH PERCENTAGE OF LOSS

FAMILY	# of species represented	holotypes available	holotypes lost	* syntypes available	* syntypes lost	paratypes available	paratypes lost	% of loss
BOTHIURIDAE	18	4	0	18	2	8	2	12
BUTHIDAE	21	16	1	5	4	2	0	18
CHACTIDAE	3	1	1	0	0	3	0	20
ISCHNURIDAE	1	1	0	0	0	0	0	0
TRIDENCHTHONIIDAE	2	2	0	0	0	1	0	0
CHERNETIDAE	7	3	1	0	0	8	5	35
WITHIIDAE	1	1	0	0	0	4	0	0
GEOGARYPIDAE	2	0	1	0	0	1	0	50
OLPIIDAE	1	0	1	0	0	1	1	67

AMMOTRECHIDAE	11	5	2	7	2	1	0	24
MUMMUCIDAE	4	0	4	0	0	2	0	100

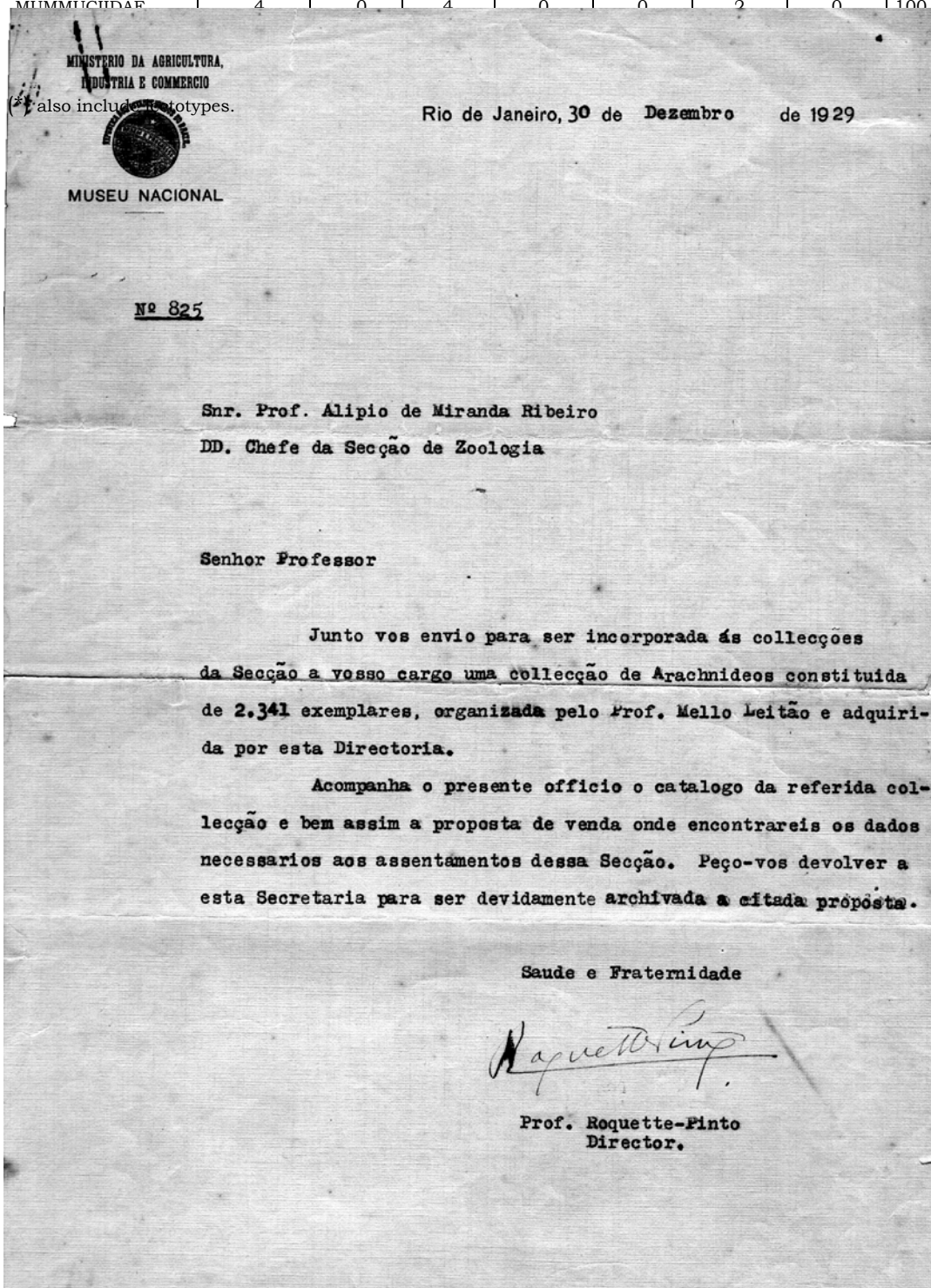


Fig.1- Letter of the director of the Museu Nacional – Rio de Janeiro to the chairman of the Department of Zoology, communicating the purchase of the private collection of Mello-Leitão.