

## A NEW *FERNANDEZINA* FROM BRAZIL (ARANEAE, PALPIMANIDAE)

Martín J. Ramírez<sup>1</sup>

Cristian J. Grismado<sup>2</sup>

### ABSTRACT

The male of *Fernandezina tijuca*, new species, is described from Rio de Janeiro, Brazil. Based on morphology of embolus, sister relationship is suggested with *F. acuta* Platnick, 1975.

KEYWORDS. *Fernandezina*, Palpimanidae, new species, Taxonomy, Brazil.

### INTRODUCTION

The genus *Fernandezina* Birabén, 1951, comprises four species, three of them from the Brazilian states of Pernambuco and Minas Gerais, and one from northern Argentina (PLATNICK, 1975; 1977). An additional species, *F. gyrongensis* Hu & Li, 1987, was described from China, but it was considered misplaced by PLATNICK (1993). *Fernandezina* is recognized by the dorsally unexpanded femur I, the tarsus I nearly as long as tibia I, and the enlarged abdominal scutum of males, covering at least half of dorsum (PLATNICK, 1975; 1977). A fourth Brazilian species is here described from Tijuca National Park, Rio de Janeiro.

The embolus of this new species is peculiar by its rather straight, long and acute shape. Only *Fernandezina acuta* Platnick, 1975, has a similar embolus, among all *Fernandezina* and *Anisaedus* Simon, 1893 species. As *Anisaedus* is supposed to be the sister group of *Fernandezina* (PLATNICK, 1975), and straight and long embolus is present only in the *walckenaeri* group of *Otiothops* (a derivative group not closely related with both genera), the feature appears to be a synapomorphy linking *Fernandezina acuta* and *F. tijuca* sp. n. as sister species.

### MATERIAL AND METHODS

Specimens are deposited in Museu de Zoologia, Universidade de São Paulo (MZSP, J. L. Leme) and Museo Argentino de Ciencias Naturales (MACN, C. L. Scioscia). The format of description follows PLATNICK (1975). All measurements are in millimeters.

1. Departamento de Biología, Laboratorio de Artrópodos, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires. Pabellón II Ciudad Universitaria, 1428, Buenos Aires, Argentina. (Becario UBA in the MACN)

2. Museo Argentino de Ciencias Naturales, Av. Ángel Gallardo 470 (1405) Buenos Aires, Argentina.



*Fernandezina tijuca* sp. n.

(Figs. 1, 2)

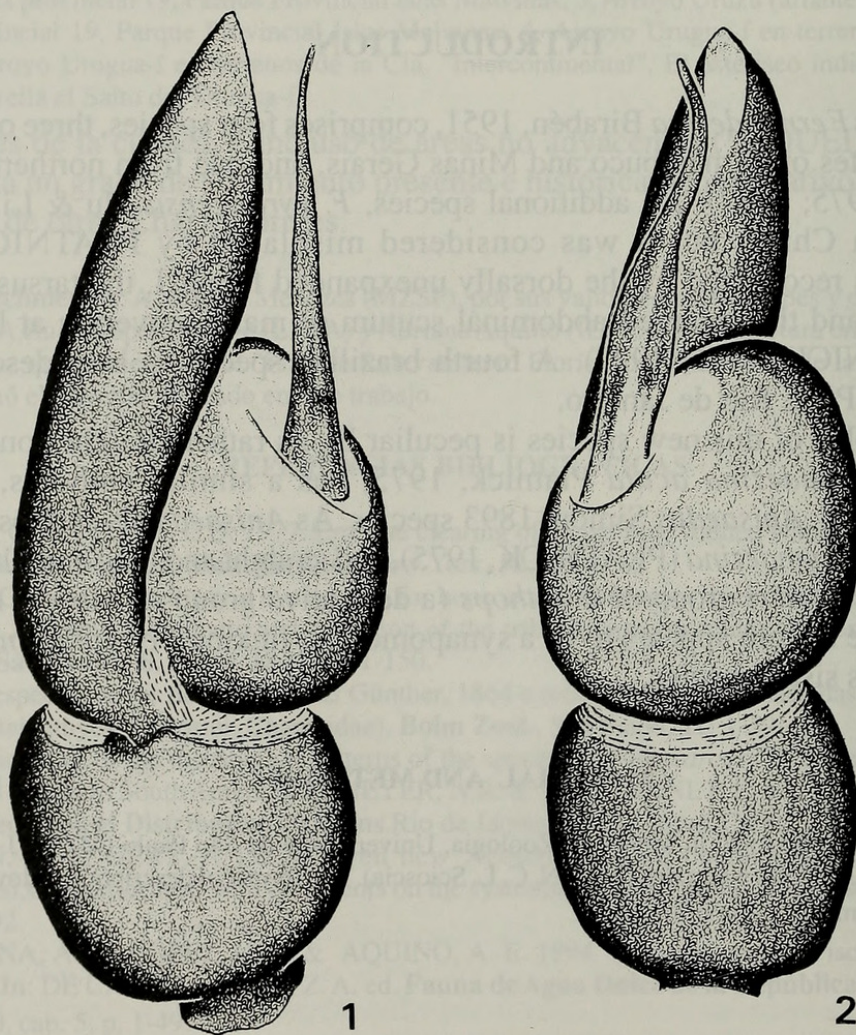
Type. Male holotype, Brazil, Rio de Janeiro State: Rio de Janeiro, Parque Nacional da Tijuca, 16.VI.1994, M. Ramírez & R. Baptista col. (MZSP).

Etimology. The specific name is a noun in apposition taken from the type locality.

Diagnosis. *Fernandezina tijuca* resembles *F. acuta* but may be distinguished by the long almost straight embolus and the long cymbial tip (figs. 1, 2).

Male. Total length 2.4. Carapace 1.2 long, 0.88 wide. First leg: femur 1.08 long, 0.26 high; patella 0.77 long; tibia 0.67 long; metatarsus 0.37 long; tarsus 0.52 long. Posterior median eyes separated by one and one-half times their diameter. All sclerotized integuments reddish-brown. Abdominal scutum covering two thirds of dorsum. One brown area at each side of abdomen, leaving a narrow cream strip on unsclerotized dorsum. Unsclerotized venter cream. Male palpal tibia globose, same size as tegulum (figs. 1, 2). Cymbium with apex almost as long as tegulum. Embolus originating retrolaterally, long, straight and flattened, partially translucent.

Natural history. Specimens were collected on leaf litter in forest. One immature



Figs. 1,2. *Fernandezina tijuca* sp. n., right palp: 1, prolateral view; 2, ventral view. Scale bar = 0,1 mm.



(MACN) from same locality probably belongs to the same species.

**Acknowledgments.** Renner Baptista (Universidade Federal do Rio de Janeiro) provided valuable help in field work. Helpful comments on a draft of the manuscript were provided by Maria Elena Galiano (MACN). Support for this project was provided by a graduate fellowship of the Universidad de Buenos Aires to the former author.

## REFERENCES

- PLATNICK, N. I. 1975. A Revision of the Palpimanid Spiders of the New Subfamily Otiathopinae (Araneae, Palpimanidae). **Amer. Mus. Novitates**, New York, **2562**:1-32.
- . 1977. Notes on Chilean Palpimanidae (Arachnida, Araneae). **J. Arachnol.** Lubbock, **3** (3):203-205.
- . 1993. **Advances in Spider Taxonomy 1988-1991**, With Synonymies and Transfers 1940-1980. New York, New York Entomological Society. 846 p.

## ABSTRACT

Seven species of cecropids were found in Bransfield Strait, Antarctic: *Australscalpellum compactum* (Borradaile, 1916) comb. n., *L. angulatus* (Canetti, 1930), *Triangulascalpellum liberum* (Nelson-Castell, 1930), *T. magnum* (Nelson-Castell, 1930) and *Brachylasma corolliforme* (Hook., 1883). *Triangulascalpellum compactum* is transferred to *L. angulatus* Newman & Ross, 1971 due to a reduction in the size of plates. Five of the species have their geographic distribution restricted to the Antarctic Peninsula, only *L. discoveryi* and *B. corolliforme* are more widespread distributed in the Antarctic.

Recebido em 07.02.1995; aceito em 19.06.1995.

**KEYWORDS.** Cnidacea, Cnidaria, Antarctic, Taxonomy.

## INTRODUCTION

The Brazilian Antarctic Program between 1983 and 1986 carried out four expeditions (PROANTAR I to IV) which set out during the period dredged between 61° and 65° S (NONATO et al., 1992). The purpose of this paper is to identify the species collected from these expeditions and review those with taxonomic problems.

Abbreviations cited in the text: CH, Capitulum height; CR, Carino-rostral diameter; MNRJ, Museu Nacional, Universidade Federal do Rio de Janeiro; PH, Peduncle height.

Scalpellidae, Brochiinae

### *Australscalpellum schizmatoplacianum* Newman & Ross, 1971

*Australscalpellum schizmatoplacianum* NEWMAN & ROSS, 1971: 131, pl. 424, v. fig. 46.

Material examined. ANTARCTIC: 63°25' S, 62°19' W, 14 II 1986, 135m, 1 specimen, CH, 3.3 mm, PH, 1.7 mm (MNRJ 2554).

Geographic distribution. Antarctic Peninsula.

Remarks. The specimen examined is not fully developed. It agrees with NEWMAN



Rami

,

rez,

Marti

,

n J. and Grismado, Cristian J. 1996. "A new Fernandezina from Brazil (Araneae, Palpimanidae)." *Iheringia* 80, 117–119.

**View This Item Online:** <https://www.biodiversitylibrary.org/item/106579>

**Permalink:** <https://www.biodiversitylibrary.org/partpdf/149947>

#### **Holding Institution**

Smithsonian Libraries and Archives

#### **Sponsored by**

Biodiversity Heritage Library

#### **Copyright & Reuse**

Copyright Status: In copyright. Digitized with the permission of the rights holder.

License: <http://creativecommons.org/licenses/by-nc-sa/3.0/>

Rights: <https://biodiversitylibrary.org/permissions>

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.