



## LUCIANA RIBEIRO MARTINS, MSc, PhD

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Zoology Museum, São Paulo University

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### APPOINTMENTS

**2018– Postdoctoral fellow**, Zoology Museum, São Paulo University, Brazil (MZUSP)

**2018 Collections manager**, Zoology Museum, São Paulo University, Brazil (MZUSP)

### EDUCATION

**2017 PhD** Systematic, Animal taxonomy and Biodiversity, São Paulo University, Brazil (USP)

Supervisor: Marcos Tavares, PhD

**2012 MSc** Animal Diversity: Zoology, Federal University of Bahia, Brazil (UFBA)

Supervisors: Carla Menegola, PhD

**2008 BSc** Biology: Zoology of aquatic organisms, Federal University of Bahia, Brazil (UFBA)

Supervisor: Orane Falcão de Souza Alves, PhD

### PEER-REVIEWED PUBLICATIONS

#### In Press

23. **Martins L** & Souto C (in press) Taxonomy of the Brazilian Apodida (Holothuroidea), with the description of two new genera, Marine Biology Research. Available [Here](#)

#### Published

22. **Martins L**, Souto C & Tavares M (2021). Exploring the macrostructural anatomy of dendrochirotid sea cucumber's (Echinodermata) calcareous rings under micro-computed tomography and its bearing on phylogeny. *Journal of anatomy*, 238,6, 1386-1403. Available [Here](#)
21. Cunha R, **Martins L**, Menegola C, Souto C (in press) Taxonomy of the sea stars (Echinodermata: Asteroidea) from Bahia State, including ontogenetic variations and an illustrated key to the Brazilian species. *Zootaxa*, 4955, 1, 1-78. Available [Here](#)
20. **Martins L** & Tavares M. 2020. First record of psolid sea cucumber *Psolidium* (Holothuroidea: Dendrochirotida: Psolidae) from the Brazilian coast, with the description of two new species. *Zoological Studies*, 59, 2. Available [Here](#)

19. **Martins L.** 2019. Ontogenetic variation of the ossicles in *Pseudothyone belli* (Ludwig, 1887) with a description of a new Sclerodactylidae (Echinodermata: Holothuroidea: Dendrochirotida) from Southwestern Atlantic, Marine Biology Research, 15, 434–443. Available [Here](#)
18. Souto C, Mooi R, **Martins L**, Menegola C, Marshall CR. 2019. Homoplasy and extinction: the phylogeny of cassidulid echinoids (Echinodermata) Zoological Journal of the Linnean Society. 187, 622–660. Available [Here](#)
17. **Martins L** & Tavares M. 2019. Two new species of *Psolus* Oken from Brazil (Holothuroidea: Psolidae), with neotype designation and redescription of *Psolus vitoriae* Tommasi, 1971, and a key to the southwestern Atlantic and Magellanic species. Zootaxa, 4563, 531–546. Available [Here](#)
16. **Martins L** & Souto C. 2019 Taxonomic remarks on *Havelockia* and *Thyone* (Holothuroidea: Dendrochirotida), with descriptions of two new species from the Brazilian coast. Journal of the Marine Biological Association of the United Kingdom, 99, 1127–1134. Available [Here](#)
15. **Martins L** & Tavares M. 2019. Two new species of of *Sclerothyone* from the Southwestern Atlantic ocean, with a key to genera and species of Sclerothyoninae (Holothuroidea: Dendrochirotida: Sclerodactylidae). Zootaxa, 4658, 375–382. Available [Here](#)
14. **Martins L** & Tavares M. 2018. New species of the genera *Havelockia* and *Thyone* (Echinodermata: Holothuroidea) and first record of *T. crassidisca* from the southwestern Atlantic Ocean. Zootaxa, 4407, 533–542. Available [Here](#)
13. Souto C & **Martins L**. 2018. Synchrotron micro-CT scanning leads to the discovery of a new genus of morphologically conserved echinoid (Echinodermata: Cassiduloida). Zootaxa, 4457, 70–92. Available [Here](#)
12. **Martins L** & Tavares M. 2018. *Ypsilothuria bitentaculata bitentaculata* (Echinodermata: Holothuroidea) from the southwestern Atlantic, with comments on its morphology. Zoologia, 35, 1–6. Available [Here](#)
11. **Martins L** & Tavares M. 2018. A new genus and species of Sclerodactylidae (Echinodermata: Holothuroidea: Sclerothyoninae) from the Pacific coast of Panama, and assignment of *Neopentamera anexigua* to Sclerothyoninae. Zootaxa, 4429, 157–164. Available [Here](#)
10. **Martins L**, Souto C, Braga J & Tavares M. 2018. Echinoidea and Holothuroidea (Echinodermata) of the Trindade & Martin Vaz Archipelago, off Brazil, with new records and remarks on taxonomy and species composition. Journal of the Marine Biological Association of the United Kingdom, 98, 521–555. Available [Here](#)
9. **Martins L**. 2018. Taxonomy of the genus *Thyonella* (Holothuroidea: Dendrochirotida), with mention of the first record of *T. sabanillaensis* from the southwestern Atlantic Ocean. Zootaxa, 4527, 75–86. Available [Here](#)
8. Souto C, **Martins L** & Menegola C. 2018. Giving up on elaborate dermal ossicles: a new genus of ossicleless Apodida (Holothuroidea). Journal of the Marine Biological Association of the United Kingdom, 98, 1685–1688. Available [Here](#)

7. **Martins L** & Souto C. 2015. Taxonomic review of four western Atlantic dendrochirotids (Holothuroidea) with the description of a new Brazilian cucumariid species and designation of neotypes. *Zootaxa*, 3919, 362–374. Available [Here](#)
6. **Martins L**, Souto C, Magalhães WF, Alves OFS, Rosa I & Sampaio CLS. 2012. Echinoderm harvesting in Todos-os-Santos Bay, Bahia state, Brazil: the aquarium trade. *Sitientibus*, 12, 53–59. Available [Here](#)
5. **Martins L**, Souto C & Menegola C. 2012. A new genus and new species of Sclerodactylidae (Holothuroidea) from the Southwestern Atlantic coast. *Zootaxa*, 3506, 54–62. Available [Here](#)
4. **Martins L**, Souto C & Menegola C. 2012. First record of *Holothuria (Theelothuria) princeps* and *Thyone pansoni* [Echinodermata: Holothuroidea] in the South Atlantic Ocean. *Marine Biodiversity Records*, 5, e98. Available [Here](#)
3. Souto C, Manso CLC & **Martins LR**. 2011. Rediscovery and redescription of *Cassidulus infidus* (Echinoidea: Cassidulidae) from Northeastern Brazil. *Zootaxa*, 3095, 39–48. Available [Here](#)
2. Manso CLC, Alves OFS & **Martins LR**. 2008. Echinodermata da Baía de Todos os Santos e da Baía de Aratu (Bahia, Brasil). *Biota Neotropica*, 8, 180–196. Available [Here](#)
1. Magalhães WF, **Martins LR** & Alves OFS. 2005. Inventário dos Echinodermata do estado da Bahia. *Brazilian Journal of Aquatic Science and Technology*, 9, 61–65. Available [Here](#)

### Book Chapter

Souto C & **Martins L** (2017) Os equinodermos. *In*: Nunes, J.M.C. & de Matos, M.R.B. (eds.) *Litoral Norte da Bahia: caracterização ambiental, biodiversidade e conservação*. Salvador: EDUFBA, p. 303–315. Available [Here](#)

### AWARD AND SCHOLARSHIP

2016 Best student oral presentation, 3<sup>rd</sup> Latin American Echinoderm Conference. San Jose, Costa Rica.

2014 Four-year PhD scholarship awarded by the Research Support Foundation of the São Paulo State (FAPESP), US\$ 33,035.72.

### TEACHING EXPERIENCE AND MENTORSHIP

#### Instructor of Record

2020 Marine Biology, MZUSP, 1 unit.

2011 Integrative Taxonomy Workshop, II Summer Course in Animal Diversity, UFBA, 16h.

#### Guest Lectures

2021 “Fossils and the evolutionary history of cassiduloids (Echinoidea) and evolution of the calcareous ring in Dendrochirotida (Holothuroidea)”, for undergraduate students in Biology, UFBA

- 2021 “Organismos simples, estruturas complexas: Um estudo de caso com Holothuroidea através do uso de Microscopia Eletrônica de Varredura (MEV) e Microtomografia”, for undergraduate students in Biology, UFRGS.
- 2021 “Organismos simples, estruturas complexas: Um estudo de caso com Holothuroidea através do uso de Microscopia Eletrônica de Varredura (MEV) e Microtomografia”, for undergraduate students in Biology, UEFS.
- 2009, 2010 “Phylum Echinodermata: collecting methods, curating and taxonomy”, for graduate students in Animal Diversity, UFBA
- 2009, 2010 “Systematics and biology of the Echinodermata”, for undergraduate students, UFBA.

### **Student Mentorship**

- 2020–present Rayssa Nascimento Batista, undergraduate, Feira de Santana State University.
- 2020–present Alexandre Oliveira Marques, undergraduate, Zoology Museum, USP.
- 2019–2020 Rafael Correa Pankratz, undergraduate, Zoology Museum, USP.
- 2011–2012 Alisson Santana, undergraduate, Biology Department, UFBA.
- 2010–2013 Rosana F da Cunha, undergraduate, Biology Department, UFBA.

### **Thesis and Dissertation Committee**

- 2021 Helena Serrano, graduate (MSc), Zoology Museum, USP.
- 2019 Renata AS Alitto, Biology Department, Campinas University, Campinas.
- 2019 Rosana F da Cunha, Zoology Museum, USP.
- 2018 Gisella Christina Sales das Chagas, Biology Department, Campinas University, Campinas.

### **Honor Thesis Committee**

- 2014 Larissa de Souza Barba. Presbiteriana Mackenzie University, São Paulo.

## **WORKSHOPS, TALKS AND CONFERENCE PRESENTATIONS**

### **Workshop**

- 2011 **Integrative Taxonomy Workshop**, II Summer Course in Animal Diversity, UFBA, for undergraduate students, 16h

### **Invited Talks**

- 2020 III Echinoderm Symposium, Brazilian Congress of Zoology, Águas de Lindoia, Brazil.
- 2019 Zoology Museum, Campinas University, Brazil.
- 2013 Graduate program seminar series, Campinas University, Brazil.

### **Conference Presentations** (list available upon request)

>40 Abstracts presented at scientific meetings since 2006 - the most relevant are:

- 2021 Souto C, **Martins L**. The macrostructural anatomy and functional morphology of dendrochirotid sea cucumber's (Echinodermata) calcareous rings. The Society for Integrative and Comparative Biology Virtual Annual Meeting 2021.
- 2016 **Martins L**, Souto C & Tavares M. Morphological phylogeny of the phylloporid dendrochirotids. 3<sup>rd</sup> Latin-American Echinoderm Conference, San Jose, Costa Rica.

- 2015 **Martins L**, Souto C & Tavares M. Morphological phylogeny of the sclerodactylids and phylloporids. 15<sup>th</sup> International Echinoderm Conference, Playa del Carmen, Mexico.
- 2015 Souto C, **Martins L**, Mooi R & Menegola C. Cladistic analysis of the Cassidulidae (Echinoidea) with paleobiogeographic considerations. 15<sup>th</sup> International Echinoderm Conference, Playa del Carmen, Mexico.

### Participation in international conferences

- 2016 3<sup>rd</sup> Latin-American Echinoderm Conference. San Jose, SJ, Costa Rica.
- 2015 15<sup>th</sup> International Echinoderm Conference. Playa del Carmen, QI, Mexico.
- 2014 7<sup>th</sup> North American Echinoderm Conference. Pensacola, FL, U.S.A.
- 2013 2<sup>nd</sup> Latin-American Echinoderm Conference, São Sebastião, SP, Brazil.
- 2011 1<sup>st</sup> Latin-American Echinoderm Conference. Puerto Madrin, CH, Argentina.
- 2011 6<sup>th</sup> North American Echinoderm Conference. Anacortes, WA, U.S.A.

### Scientific Event Organizer

- 2020 III Brazilian Symposium of Echinoderm, co-organizer, 33<sup>rd</sup> Brazilian Congress of Zoology, Brazil, 40 participants.
- 2011 II Summer Workshop in Animal Diversity, co-organizer, UFBA, 100 participants.
- 2006 Week of Biology, coordinator, UFBA, 1000 participants.
- 2005 Week of Biology, coordinator, UFBA, 700 participants.

## ACADEMIC SERVICE AND OUTREACH EXPERIENCE

### Academic committee

- 2020–present Post-doc representative, MZUSP.
- 2011 Master student representative, UFBA.

**Ad hoc peer-reviews (17 manuscripts):** Zootaxa; Zookeys; Marine Biodiversity Records; Papéis Avulsos de Zoologia; Belgian Journal of Zoology, Revista de Biología Marina Y Oceanografía, and Revista de Biología Tropical.

### Development of blogs and posters for websites and public exhibitions

- 2009–2010 The animals from our beaches. Funded by the National Council for Scientific and Technological Development (CNPq). Available [Here](#)
- 2008 National Week of Science and Technology: Evolution and Diversity, UFBA.
- 2005–2008 Week of Biology laboratory exhibition, UFBA.

### Efforts towards environment management and conservation

- 2015–present **Taxonomic specialist** for the Brazilian Fauna Taxonomic Catalog (CTFB), Brazilian Society of Zoology. Available [Here](#)
- 2019 **Member of committee** to evaluate the status of endangered Brazilian wildlife, The Chico Mendes Institute for Biodiversity Conservation, Brazil (ICMBio)
- 2019 **Member of committee** to evaluate the status of endangered wildlife from Espírito Santo State, National Institute of the Atlantic Forest (INMA), Institute for the

- Environment and Water Resources (IEMA), Research and Innovation Support Foundation of Espírito Santo (FAPES).
- 2013 **Member of committee** to evaluate the status of endangered wildlife from Bahia State, Institute for the Environment and Water Resources (INEMA)
- 2006–2012 **Taxonomic specialist** for environmental consulting agencies, UFBA. Project coordinator: Marlene Peso, PhD.

## CURATORIAL PROFESSIONAL EXPERIENCE

- 2017 **Collections Assistant**, Echinodermata, Museum of Zoology, USP.  
Supervisor: Marcelo Fukuda, PhD
- 2013 **Collections Assistant**, Echinodermata, Museum of Zoology, USP.  
Supervisor: Marcos Tavares, PhD
- 2006–2012 **Curatorial Assistant**, Echinodermata, Museum of Zoology, UFBA.  
Supervisors: Orane FS Alves, PhD and Carla Menegola, PhD

## RESEARCH AT NATURAL HISTORY COLLECTIONS

**Long-term affiliation:** **MZUFBA** Zoology Museum of the UFBA, Salvador, Brazil (2006–2012); **MZUSP** University of São Paulo, Museum of Zoology, São Paulo, Brazil (2013–present).

**Short-term visits (2007–2016):** **MNHN** National Museum of Natural History, Paris, France; **MNRJ** National Museum, Rio de Janeiro, Brazil; **NMNH** National Museum of Natural History, Washington, U.S.A.; **UFISITAB** Echinoderm Collection, Federal University of Sergipe, Itabaiana, Brazil; **ZUEC** Zoology Museum, Campinas State University, Brazil.

**Material examined through loans:** **ZMUC** Zoological Museum, University of Copenhagen, Denmark; **NMNH** National Museum of Natural History, Washington; **FLMNH** Florida Museum of Natural History.

## ECHINODERM TAXA NAMED

<i>Chantalia conandae</i>	Martins & Souto, 2020	New genus and new species
<i>Yemoja</i>	Martins & Souto, 2020	New genus
<i>Psolidium nanoplax</i>	Martins & Tavares, 2020	New species
<i>Psolidium lonchostinum</i>	Martins & Tavares, 2020	New species
<i>Eurhodiidae</i>	Souto et al., 2019	New family
<i>Havelockia smirnovi</i>	Martins, 2019	New species
<i>Psolus tommasi</i>	Martins & Tavares, 2019	New species
<i>Psolus thandari</i>	Martins & Tavares, 2019	New species
<i>Sclerothyone oloughlini</i>	Martins & Tavares, 2019	New species
<i>Sclerothyone reichii</i>	Martins & Tavares, 2019	New species
<i>Havelockia oranae</i>	Martins & Souto, 2019	New species
<i>Thyone waltinboi</i>	Martins & Souto, 2019	New species
<i>Paulayellus gustavi</i>	Martins & Tavares, 2018	New genus and new species
<i>Thyone florianoi</i>	Martins & Tavares, 2018	New species
<i>Havelockia mansoae</i>	Martins & Tavares, 2018	New species
<i>Cassidulus briareus</i>	Souto & Martins, 2018	New species

<i>Gymnopipina ikamiaba</i>	Souto & Martins, 2018	New genus and new species
<i>Kassandrina</i>	Souto & Martins, 2018	New genus
<i>Cucumaria solangeae</i>	Martins & Souto, 2015	New species
<i>Coronatum baiensis</i>	Martins & Souto, 2012	New genus and new species

## TECHNICAL SKILLS AND EQUIPMENT TRAINING

2010 JEOL JSM-6390LV Scanning Electron Microscope, Gonçalo Moniz Institute, Oswaldo Cruz Foundation (FIOCRUZ), Salvador, Brazil