



## LUCIANA RIBEIRO MARTINS, MSc, PhD

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### APPOINTMENTS

- 2022–** Postdoctoral fellow, Oceanographic Institute, São Paulo University, Brazil (IOUSP)  
**2018–2022** 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)  
Supervisor: 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

#### Submitted

Morphological characterization of anterior axial bifurcation in *Holothuria (Halodeima) grisea* and other puzzling occurrences in Holothuroidea.

#### Published

29. **Martins L ; Costa, K & Toledo, F** (2023) Disarticulated ossicles of sea cucumbers from the Campos Basin, Brazil: A new perspective into the discovery of diversity of Holothuroidea (Echinodermata). *The Holocene*, 33,12,1547-1552. Available [Here](#)
28. **Martins L & Tavares M** (2023) Additions to the Morphology of the Cucumariidae. I. Intraspecific Variation of the Retractor Muscle in *Parathyone braziliensis* (Verrill, 1868) and *Thyonidium seguroensis* (Deichmann, 1930) (Holothuroidea : Dendrochirotida) *Zootaxa*, 5120,4,559-572. Available [Here](#)
27. Rupp, Guilherme Sabino, Cacciatori Marenzi, Adriano Weidner, De Souza, Robson Ventura, and **Martins, Luciana** (2023) Sea Cucumbers (Echinodermata: Holothuroidea) from Santa Catarina Coast, Southern Brazil, with Notes on their Abundance and Spatial Distribution) *Journal of Shellfish Research*, 42,1,143-153. Available [Here](#)

26. **Martins L** & Tavares M (2022) Additions to the morphology of the Phyllophoridae and the Sclerodactylidae. I. Type species of Phyllophorella, Selenkiella, Cladolella and Clarkiella, with the description a new species of Thorsonia (Holothuroidea: Dendrochirotida). Zootaxa, 5120,4,559-572. Available [Here](#)
25. **Martins L**, Marques A, Fukuda MV & Tavares M (2022) An annotated catalogue of Echinodermata types in the Museu de Zoologia, Universidade de São Paulo, Brazil, Papéis Avulsos de Zoologia, 62,1-11. Available [Here](#)
24. **Martins L** & Tavares M (2021) A new species of *Parathyone* (Holothuroidea: Dendrochirotida: Cucumariidae) from northeastern Brazil, with a key to species. Zootaxa, 4985,2,245-252. Available [Here](#)
23. **Martins L**, Souto C & Tavares M (2021). Exploring the macrostructural anatomy of dendrochirotid sea cucumbers? (Echinodermata) calcareous rings under micro-computed tomography and its bearing on phylogeny. Journal of anatomy, 238,6, 1386-1403. Available [Here](#)
22. Cunha R, **Martins L**, Menegola C, Souto C (2021) 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](#)
21. **Martins L** & Souto C (2020) Taxonomy of the Brazilian Apodida (Holothuroidea), with the description of two new genera, Marine Biology Research. v. 1, p. 1-37. 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. *Sitentibus*, 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 pansonii* [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**

2022 Marine Biology, MZUSP, 1 unit.

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**

2022–2026 Cecília Damiano, PhD candidate, Pós Graduação em Biologia Animal, UNICAMP.

2023–2024 Tulio Henrique Custodio de Souza, undergraduate, Oceanographic Institute, USP.

2022–2023 Bruna Campedelli, undergraduate, Oceanographic Institute, USP.

2022–2023 Tulio Henrique Custodio de Souza, undergraduate, Zoology Museum, USP.

2021–2022 Tulio Henrique Custodio de Souza, undergraduate, Zoology Museum, USP.

2021–2022 Yara Nantes Vasconcelos, undergraduate, UNESPAR.

2020–2021 Rayssa Nascimento Batista, undergraduate, Feira de Santana State University.

2020–2021 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

- 2023 Gabriela Granadier, graduate (MSc), Biology Department, Campinas University, Campinas.
- 2021 Alisson Santana, doctoral, Universidade Federal da Bahia, UFBA.
- 2021 Helena Serrano, graduate (MSc), Zoology Museum, UNICAMP.
- 2019 Renata AS Alitto, doctoral, Zoology Museum, UNICAMP.
- 2019 Rosana F da Cunha, graduate (MSc), Zoology Museum, USP.
- 2018 Gisella Christina Sales das Chagas, graduate (MSc), Biology Department, Campinas University, Campinas.

### Honor Thesis Committee

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

## WORKSHOPS, TALKS AND CONFERENCE PRESENTATIONS

### Workshop

2022 **Mentoring for Consolidation of the Research Career of Post-Doctoral Scholars (PD) from FAPESP**, 12h

- 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 dendrochirotid. 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

- 2022 3<sup>th</sup> Latin-American Echinoderm Conference. Virtual
- 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

- 2019-2022 Post-doc representative, MZUSP.
- 2011 Master student representative, UFBA.

**Ad hoc peer-reviews (20 manuscripts):** Zootaxa; Zookeys; Marine Biodiversity Records; Papéis Avulsos de Zoologia; Belgian Journal of Zoology, Species Diversity, Thalassas: An International Journal of Marine Sciences, Revista de Biología Marina Y Oceanografía, Journal of Oceanology and Limnology and Revista de Biología Tropical.

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

- 2022- present @Echinodermata\_BR Available Here
- 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
- 2013–2017 **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>Thorsonia hedingi</i>	Martins & Tavares, 2022	New species
<i>Parathyone itapuaensis</i>	Martins & Tavares, 2021	New species
<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>Eurbodiidae</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

## **GRANTS**

2022 Paleontological Society- Sepkoski Grants  
2022 LinnéSys: Systematics Research Fund  
2022 Ernst Mayr Grant- Museum of Comparative Zoology-Harvard University  
2022 Field Museum of Natural History