

# Rannyele Passos Ribeiro

POSTDOCTORAL RESEARCH ASSOCIATE · DEPARTMENT OF BIOLOGY

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## Education

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### Autonomous University of Madrid

Spain

#### PHD BIOLOGY

2021

- Dissertation title: *Regeneration in Syllidae: morphological, cellular and molecular background*
- *Summa cum laude. International Mention.*
- Advisor: Dr. M. Teresa Aguado

### Autonomous University of Madrid

Spain

#### MASTER'S IN UNIVERSITY TEACHING METHODOLOGY

2021

- Thesis title: Gamizoo: Gamizoo: providing a courseware for practical classes of Zoology
- Advisor: Dr. Enrique García-Barros

### Federal University of Rio de Janeiro

Brazil

#### MSC ENVIRONMENTAL SCIENCES AND CONSERVATION

2015

- Thesis title: Morphological and molecular diversity of polychaetes from the Saint Peter and Saint Paul Archipelago
- Advisor: Dr. Christine Ruta

### State University of Maranhão

Brazil

#### BSc BIOLOGICAL SCIENCES

2013

- Thesis title: Characterization of the polychaete fauna from two mangroves in the Amazon coast
- Advisor: Dr. Zafira da Silva de Almeida

## Professional Experience

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- 01/2022 - current **Postdoctoral Researcher**, Özpolat Lab, Washington University in St. Louis
- 09/2021 - 12/2021 **Postdoctoral Researcher**, Özpolat Lab, Marine Biological Laboratory
- 02/2017 - 06/2021 **Predoctoral Researcher**, Dept. of Biology, Autonomous University of Madrid
- 02/2016 - 01/2017 **Lecturer**, Darcy Ribeiro Program, State University of Maranhão
- 10/2013 - 09/2015 **Graduate Research Fellow**, Institute of Biodiversity and Sustainability, Federal University of Rio de Janeiro
- 05/2010 - 04/2012 **Undergraduate Research Fellow**, Dept. of Chemistry and Biology, State University of Maranhão

## Publications

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ORCID Google Scholar Publons

### PRE-PRINTS

1. **Ribeiro, R.P.**, Null, R. W., Ozpolat, B. D. (2024). Sex-biased gene expression precedes sexual dimorphism in the agonadal annelid *Platynereis dumerilii*. bioRxiv, 2024-06. <https://doi.org/10.1101/2024.06.12.598746>

### PEER-REVIEWED RESEARCH ARTICLES

17. Spiess, V.\*, **Ribeiro, R.P.\***, Helm, C., Aguado, M.T. (accepted) From two segments and beyond: investigating the onset of regeneration in *Syllis malaquini* (Syllidae, Annelida). *Evolution & Development*. \*Authors with equal contributions.
16. **Ribeiro, R.P.**, Freitas, R., Zanol, J., Paiva, P.C., Fukuda, M.V., Guilment, T., Ruta, C. (2023) Genetic diversity of polychaete annelids from the Saint Peter and Saint Paul Archipelago, Equatorial Atlantic, with description of a new species. *Regional Studies in Marine Science*, 68, 103243. <https://doi.org/10.1016/j.rsma.2023.103243>

15. Ruta, C., Munding, D., Freitas, R., **Ribeiro, R.P.** (2023) New species and record of Dodecaceria (Annelida: Cirratulidae) from the only atoll in the South Atlantic Ocean, the Biological Reserve of Rocas Atoll, Brazil. *PLoS One*, 18(10): e0293087. <http://doi.org/10.1371/journal.pone.0293087>
14. Freitas, R., **Ribeiro, R.P.**, Ruta, C. (2022) *Kirkegaardia* Blake, 2016 (Annelida: Cirratulidae) from Southeastern Brazil with description of nine new species. *PLoS One*, 17(5):e0265336. <https://doi.org/10.1371/journal.pone.0265336>
13. Paula, M.S., Freitas, R., Barbosa, C.A.M., **Ribeiro, R.P.**, Ruta, C. (2022) Bycatch of Asteroidea from shrimp trawl fishery in the southwestern Atlantic Ocean – Brazil. *Papeis Avulsos de Zoologia*. 62, e202262007. <https://doi.org/10.11606/1807-0205/2022.62.007>
12. Aguado, M. T., Ponz-Segrelles, G., Glasby, C.J., **Ribeiro, R.P.**, Nakamura, M., Oguchi, K., Omori, A., Kohtsuka, H., Fisher, C., Ise, Y., Jimi, N., Miura, T. (2022). *Ramisyllis kingghidorahi*, a new branching annelid from Japan. *Organisms Diversity and Evolution*, 22, 377–405. <https://doi.org/10.1007/s13127-021-00538-4>
11. **Ribeiro, R.P.**, Aguado, M.T. (2021) Effects of GSK3 $\beta$  inhibition in the regeneration of *Syllis malaquini* (Syllidae, Annelida). *Development, Genes and Evolution*, 231, 141–146. <https://doi.org/10.1007/s00427-021-00681-0>
10. **Ribeiro, R.P.**, Egger, B., Ponz-Segrelles, G., Aguado, M.T. (2021) Cellular proliferation dynamics during regeneration in *Syllis malaquini* (Syllidae, Annelida). *Frontiers in Zoology*, 18(1):1-16. <https://doi.org/10.1186/s12983-021-00396-y>
9. Ponz-Segrelles, G., Glaby, C.J., Helm, C., Beckers, P.; Hammel, J.U., **Ribeiro, R.P.**, Aguado, M.T. (2021). Integrative anatomical study of the branched annelid *Ramisyllis multicaudata* (Annelida, Syllidae). *Journal of Morphology*, 282(6): 900-916. <https://doi.org/10.1002/jmor.21356>
8. Ponz-Segrelles, G., **Ribeiro, R.P.**, Bleidorn, C., Aguado, M.T. (2020) Sex-specific gene expression differences in reproducing *Syllis prolifera* and *Nudisyllis pulligera* (Annelida, Syllidae). *Marine Genomics*, 54: 100772. <https://doi.org/10.1016/j.marge.2020.100772>
7. **Ribeiro, R.P.**, Ponz-Segrelles, G., Bleidorn, C., Aguado, M.T. (2019) Comparative transcriptomics in Syllidae (Annelida) indicates that posterior regeneration and regular growth are comparable, while anterior regeneration is a distinct process. *BMC Genomics*, 20:855. <https://doi.org/10.1186/s12864-019-6223-y>
6. **Ribeiro, R.P.**, Ponz-Segrelles, G., Helm, C., Egger, B., Aguado, M.T. (2020) A new species of *Syllis* Grube, 1850 including transcriptomic data and an updated phylogeny of Syllinae (Annelida: Syllidae). *Marine Biodiversity*, 50:31. <https://doi.org/10.1007/s12526-020-01046-y>
5. **Ribeiro, R.P.**, Cruz, A.B., Freitas, R., Zanol, J., Glasby, C.J., Ruta, C. (2020) Pilargidae (Annelida: Phyllodocida) from coastal and deep waters of the Southwestern Atlantic, with descriptions of two new species. *Zootaxa*, 4878: 056–076. <https://doi.org/10.11646/zootaxa.4878.1.2>
4. **Ribeiro, R.P.**, Alves, P.R., Almeida, Z.S., Ruta, C. (2018) A new species of *Paraonis* and an annotated checklist of polychaetes from mangroves of the Brazilian Amazon Coast (Annelida, Paraonidae). *Zookeys*, 740:1-34. <https://doi.org/10.3897/zookeys.740.14640>
3. Sousa, L.K.S., Cutrim, A.S.T., **Ribeiro, R.P.**, Oliveira, V.M., Almeida, Z.S. (2018) Marine quality assessment of amazon mangroves using benthic and diversity indices based on polychaete fauna. *Boletim do Laboratório de Hidrobiologia*, 28: 11-22. [Link](http://link)
2. Cutrim, A.S.T., Sousa, L.K.S, **Ribeiro, R.P.**, Oliveira, V.M., Almeida, Z.S. (2018) Structure of a polychaete community in a mangrove in the northern coast of Brazil. *Acta Biológica Colombiana*, 23: 286-294. <https://doi.org/10.15446/abc.v23n3.67245>
1. Rodrigues, C.A.L., **Ribeiro, R.P.**, Santos, N.B., Almeida, Z.S. (2016) Patterns of mollusc distribution in mangroves from the São Marcos Bay, coast of Maranhão State, Brazil. *Acta Amazonica*, 46: 391-400. <http://dx.doi.org/10.1590/1809-4392201600493>

## REVIEWS AND BOOK CHAPTERS

4. Ponz-Segrelles, G., **Ribeiro, R.P.**, Aguado, M.T. (2021) Monsters reveal patterns: annelids and their implications for the study of development and evolution. *Biological Reviews*, 97, 896–922. Review. <https://doi.org/10.1111/brv.12826>
3. **Ribeiro, R.P.**, Bleidorn, C., Aguado, M.T. (2018) Regeneration mechanisms in Syllidae (Annelida). *Regeneration*, 5: 26-42. Review. <https://doi.org/10.1002/reg2.98>

2. **Ribeiro, R.P.**, Almeida, Z.S. (2014) Polychaete annelids from the State of Maranhão, Brazil: history of knowledge. *Bioikos*, 28: 45-55. *Review*. [in Portuguese] [Link](#)
1. **Ribeiro, R.P.**, Almeida, Z.S. (2013) Polychaeta. In: Nunes, J.L.S.; Medonça, M.A. (Eds.). Marine biodiversity of São Luís Island. São Luís: EDUFMA, 2013, p. 79-94. *Book chapter* [in Portuguese]

## PUBLICATIONS IN TEACHING

4. **Ribeiro, R.P.**, Hernández-González. (2021) Gamizoo: providing a courseware for practical classes of Zoology. *Revista Docência do Ensino Superior*, 11: 1-20, 2021. *Research article*. [in Spanish] <https://doi.org/10.35699/2237-5864.2021.34334>
3. Marques, N.N.C.F., **Ribeiro, R.P.** (2016) An analysis of the contents of Biotechnology in the tests of the National High School Exam (ENEM). *Pesquisa em Foco (UEMA)*, 21: 104-117, *Research article*. [in Portuguese] [https://ppg.revistas.uema.br/index.php/PESQUISA\\_EM\\_FOCO/article/view/1222](https://ppg.revistas.uema.br/index.php/PESQUISA_EM_FOCO/article/view/1222)
2. **Ribeiro, R.P.** (2017) Training Biology teachers: supervised internship experiences. 1. ed. Rio de Janeiro: Câmara Brasileira de Jovens escritores, 66p. *Book* [in Portuguese]
1. Silva, J.R.S., Sousa, D.B.P., Cavalcanti, L.F., **Ribeiro, R.P.** (2016) Voices of (in) teaching: dialogue on pedagogical practices in Biological Sciences. In: Maria Cristina da Rosa Fonseca da Silva; Vera Márcia Marques Santos. (Eds.) Teacher training and public policies: scenarios and challenges. Florianópolis: Letras Contemporâneas, p. 212-230. *Book chapter* [in Portuguese]

## THESES

3. **Ribeiro, R. P.** (2021). Regeneration in Syllidae (Annelida): morphological, cellular and genetic background. Autonomous University of Madrid). *Doctoral dissertation*. <https://dialnet.unirioja.es/servlet/tesis?codigo=294960>
2. **Ribeiro, R. P.** (2015) Morphological and molecular diversity of polychaetes from Saint Peter and Saint Paul Archipelago. Federal University of Rio de Janeiro. *Master's dissertation*. [in Portuguese]
1. **Ribeiro, R. P.** (2013) Characterization of the polychaete fauna in mangroves from two areas of the São Marcos Bay, Maranhão. State University of Maranhão. *Bachelor's thesis*. [in Portuguese]

## Awards, Fellowships, & Grants

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2019	<b>Honorable mention oral presentation</b> , 13th International Polychaete Conference	\$150 (USD)
2019	<b>Student Registration Award</b> , 13th International Polychaete Conference	\$ 375 (USD)
2019	<b>Travel Award to University of Göttingen</b> , Autonomous University of Madrid	\$ 3,600 (EUR)
2018	<b>Travel Award to University of Innsbruck</b> , Autonomous University of Madrid	\$ 3,600 (EUR)
2018	<b>Runner up to the best oral communication</b> , IV Iberian Congress of Biological Systematics	
2016	<b>Predocctoral Graduate Research Fellowship</b> , Autonomous University of Madrid	\$ 70,382 (EUR)
2013	<b>Master's Graduate Research Fellowship</b> , CAPES - Brazil	\$36,000 (BRL)
2011	<b>Honorable mention student oral presentation award in Life Sciences</b> , Seminar of Scientific Initiation, State University of Maranhão	
2010	<b>Undergraduate Research Fellowship</b> , CNPq - Brazil	\$8,680 (BRL)

## Presentations

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### INVITED TALKS

9. **Ribeiro, R.P.**, Null, R., Özpolat, B.D. (2024) Sex without chromosomes: sex-biased gene expression in *Platynereis dumerilii*. *Platynereis Satellite meeting*. 9th Conference of the European Society for Evolutionary Developmental Biology, Helsinki, Finland.

8. **Ribeiro, R.P.** 2024. Sex without chromosomes: sex-biased gene expression in the germline of *Platynereis dumerilii*. Gönomic Seminar, Göttingen, Germany.
7. **Ribeiro, R.P.** 2023. Comparative transcriptomics reveals sex-specific differences in *Platynereis dumerilii*. Annual Meeting of the Society for Integrative and Comparative Biology, Austin, United States.
6. **Ribeiro, R.P.** 2020. Making heads and tails of syllids: unveiling their regenerative abilities. III Journey First Steps, Madrid, Spain.
5. **Ribeiro, R.P.** 2020. Regeneration in syllids. 2020. Seminars of the Dept. of Animal Evolution and Biodiversity. University of Göttingen, Virtual.
4. **Ribeiro, R.P.** 2019. Regeneration in syllids. Seminars of the Dept. of Animal Evolution and Biodiversity. University of Göttingen, Göttingen, Germany. 2019
3. **Ribeiro, R.P.** 2018. Studying abroad: accounts on my experience. Federal University of Maranhão, Balsas, Brazil.
2. **Ribeiro, R.P.** 2018. Trends in EvoDevo: an approach to invertebrate regeneration. State University of Maranhão, São Luís, Brazil.
1. **Ribeiro, R.P.** 2012. Biology of polychaetes. Maranhão Center for High School and Professional Education, São Luís Brazil.

## ORAL PRESENTATIONS

13. **Ribeiro, R.P.**, Hong, K., Adediji, A., Krawczynsky, A., Stemmeler, F., Özpolat, B. D. (2024). The Highlander worms: a new frontier in regenerative biology. DRSCB/DevBio/CRM Annual Retreat, Washington University in St. Louis. Grafton, USA
12. **Ribeiro, R.P.**, Null, R., Özpolat, B.D. (2024) Sex without chromosomes: sex-biased gene expression in *Platynereis dumerilii*. 9th Conference of the European Society for Evolutionary Developmental Biology, Helsinki, Finland.
11. **Ribeiro, R.P.**, Null, R., Özpolat, B.D. (2023) Sex without chromosomes: sex-biased gene expression during germline differentiation in *Platynereis dumerilii*. Annual Meeting of the Society for Developmental Biology, Chicago, United States.
10. **Ribeiro, R.P.** (2023) Comparative transcriptomics reveals sex-biased gene expression in *Platynereis dumerilii*. Regeneration, Aging and Development Forum, Washington University in St. Louis, St. Louis, United States.
9. **Ribeiro, R.P.**, McKinnon, J., Özpolat, B.D. (2023) Comparative transcriptomics reveals sex-specific differences in *Platynereis dumerilii*. Marine Genomics Symposium. Annual Meeting of the Society for Integrative and Comparative Biology, Austin, United States.
8. **Ribeiro, R.P.** (2020) Making heads and tails of syllids: unveiling their regenerative abilities. III Journey First Steps, Madrid, Spain.
7. **Ribeiro, R.P.** (2020) Regeneration in syllids. Seminars of the Dept. of Animal Evolution and Biodiversity. University of Göttingen, Virtual.
6. **Ribeiro, R.P.** (2019) Regeneration in syllids. Seminars of the Dept. of Animal Evolution and Biodiversity. University of Göttingen, Göttingen, Germany.
5. **Ribeiro, R.P.** (2019) Genetic background of regeneration in syllids (Syllidae, Annelida). In: Spirit Summer School Molecular Genetics in Zoology, Göttingen, Germany.
4. **Ribeiro, R.P.**, Ponz-Segrelles, G., Bleidorn, C., Aguado, M.T. (2019) Making heads and tails of syllids: a summary of their regenerative abilities. In: 13th International Polychaete Conference, Long Beach, United States.
3. **Ribeiro, R.P.**, Bleidorn, C., Aguado, M.T. (2018) Investigating the evolution of regeneration and reproduction in Syllidae (Annelida). In: IV Iberian Congress of Biological Systematics, Palma de Mallorca, Spain.
2. **Ribeiro, R.P.**, Almeida, Z.S. (2012) Spatiotemporal distribution of polychaete annelids in São Marcos Bay, Maranhão. XXIV Scientific Initiation Seminar, São Luís, Brazil.
1. **Ribeiro, R.P.**, Almeida, Z.S. (2012) Study of polychaetes as a subsidy for environmental monitoring in the Port Region of Itaqui and Ilha dos Caranguejos, Maranhão. XXIV Scientific Initiation Seminar, São Luís, Brazil.

## POSTERS

18. **Ribeiro, R.P.**, Hong, K., Null, R.W., Özpolat, B. D. (2024) Sex without chromosomes: sex-biased gene expression during gametogenesis in *Platynereis dumerilii*. 14th biennial meeting on Germ Cells. Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.
17. **Ribeiro, R.P.**, Hong, K., Özpolat, B.D. (2023) Sex without chromosomes: sex-biased gene expression in *Platynereis dumerilii*. CRM and Developmental Biology Annual Retreat, Grafton, United States.
16. **Ribeiro, R.P.** (2020) Making heads and tails of syllids: unveiling their regenerative abilities. III First Steps Journey, Madrid, Spain.
15. **Ribeiro, R.P.** Ponz-Segrelles, G., Helm, C., Egger, B., Aguado, M.T. (2019) Describing a new species of Syllis as a promising organism for developmental studies (Syllidae, Annelida). 13th International Polychaete Conference, Long Beach, United States
14. **Ribeiro, R.P.**, Ponz-Segrelles, G., Bleidorn, C., Aguado, M.T. (2018) Comparative transcriptomics of whole-body regeneration in epigamous and schizogamous syllids (Annelida, Syllidae). 7th Meeting of the European Society for Evolutionary Developmental Biology, Galway, Ireland
13. **Ribeiro, R.P.**, Marques, N.N.C.F\*. (2016) An analysis of the contents of biotechnology in the tests of the National High School Exam (ENEM). 11 Academic-Scientific and Cultural Exhibition in Biological Sciences, São Luís, Brazil
12. **Ribeiro, R.P.**, Leita, A.S.L., Almeida, Z.S., Ruta, C. (2014) Characterization of Polychaeta in two mangroves on the Amazon Coast of Maranhense, Brazil. Brazilian Congress of Oceanography, Itajaí, Brazil.
11. **Ribeiro, R.P.**, Paiva, P.C., Zanol, J., Ruta, C. (2014) Preliminary characterization of molecular biodiversity in the São Pedro and São Paulo Archipelago using barcode DNA. VI Research and Extension Seminar, Macaé, Brazil.
10. **Ribeiro, R.P.**, Sousa, L.K.S., Cutrim, A.S.T., Almeida, Z.S. (2013) Polychaetes from the intertidal region of the Tronco stream, Ilha dos Caranguejos, Maranhão. XVIII Northeast Zoology Meeting, Maceió, Brazil.
7. **Ribeiro, R.P.**, Cutrim, A.S.T., Sousa, L.K.S., Almeida, Z.S. (2012) Contribution to the taxonomy of Polychaeta for the State of Maranhão. XV Seminar of Biological Studies, São Luís, Brazil.
6. **Ribeiro, R.P.**, Almeida, Z.S. (2012) Study of Annelida Polychaeta for environmental monitoring in mangroves in São Marcos Bay, Maranhão, Brazil (2010-2012). XII Brazilian Congress of Ecotoxicology, Porto de Galinhas, Brazil.
5. **Ribeiro, R.P.**, Sousa, D.B.P., Cavalcanti, L.F., Tchaicka, L. (2012) Distribution of allelic and genotypic frequencies for the ABO system and Rh factor in a sample of the population of São Luís, Maranhão. In: VII Academic-Scientific and Cultural Exhibition in Biological Sciences, São Luís, Brazil.
4. **Ribeiro, R.P.**, Rodrigues, C.A.L., Santos, N.B., Almeida, Z.S. (2012) Benthic fauna in mangroves from two sites of the São Marcos Bay, Maranhão. Brazilian Congress of Oceanography, Rio de Janeiro, Brazil.
3. **Ribeiro, R.P.**, Almeida, Z.S. (2012) Diversity of polychaete annelids in unconsolidated substrates from São Marcos Bay, Maranhão, Brazil. 64 Annual Meeting of the Brazilian Society for the Progress of Science, São Luís, Brazil.
2. **Ribeiro, R.P.**, Almeida, Z.S. (2011) Composition of the polychaete fauna in São Marcos Bay, Maranhão. XIV Latin-American Congress of Marine Sciences, Balneario Camboriú, Brazil.
1. **Ribeiro, R.P.**, Almeida, Z.S., Lopes, A.T.L. (2011) Families Nereididae Johnston, 1865 and Capitellidae Grube, 1862 (Annelida: Polychaeta) as bioindicators in two areas of São Marcos Bay, Maranhão. 3rd Brazilian Congress of Marine Biology, Natal, Brazil.

## Co-authored conference abstracts \_\_\_\_\_

\* mentored student

29. Spieß, V., Helm, C., Ribeiro, R.P., Aguado, M.T. From two segments and beyond: regeneration in *Syllis malaquini*. 14th International Polychaete Conference, Cape Town, South Africa.
28. Ponz-Segrelles, G., Bleidorn, C., **Ribeiro, R.P.**, Aguado, M.T. (2019) Comparative transcriptomic analysis offers insight into genetic control of syllid reproduction. 13th International Polychaete Conference, Long Beach, United States
28. Ponz-Segrelles, G., Bleidorn, C., **Ribeiro, R.P.**, Aguado, M.T. (2019) Comparative transcriptomic analysis offers insight into genetic control of syllid reproduction. 13th International Polychaete Conference, Long Beach, United States
27. Ponz-Segrelles, G., Glasby, C., Helm, C., Beckers, P., Hammel, J.U., **Ribeiro, R.P.**, Fischer, C., Bleidorn, C., Aguado, M.T. (2019) Integrative anatomical study of *Ramisyllis multicaudata* reveals the evolutionary origins of its novel body plan. 13th International Polychaete Conference, Long Beach, United States.

26. Lourenço, G.P.; Ruta, C.; Gomes, M.A.B. ; Diniz, R.C.; Viana, G.F.; **Ribeiro, R.P.** (2018) Taxonomic study of Syllidae (Annelida: Polychaeta) associated with sponges, Atol das Rocas, Brazil. 9th UFRJ Academic Integration Week, Macaé.
25. Diniz, R.C., Viana, G.F., **Ribeiro, R.P.**, Lourenço, G.P., Gomes, M.A.B., Ruta, C. (2018) Polychaete annelids from the Atol das Rocas Biological Reserve (RN). 9th UFRJ Academic Integration Week, Macaé.
24. Batista, E.K.S.\*, **Ribeiro, R.P.** (2016) Incidence of American cutaneous leishmaniasis in the municipality of Poço de Pedras, Maranhão between 2013 and 2016. 11 Academic-Scientific and Cultural Exhibition in Biological Sciences, São Luís, Brazil
23. Almeida, Z.S., Sousa, D.B., Tchaicka, L., Carvalho-Neta, R.N.F., Araujo, A., **Ribeiro, R.P.** (2016) Reproductive period and size at first maturity of *Ucides cordatus* Linnaeus, 1763 (Crustacea: Decapoda) in two mangrove of Maranhão, Brazil. XIX Iberian Symposium on Marine Biology Studies, Porto, Portugal.
22. Mata Junior, J.A.R.\*, Ruta, C., **Ribeiro, R.P.**, Gomes, M.A.B., Diniz, R.C. (2016) Polychaetes from the São Pedro and São Paulo Archipelago: morphological and molecular characterization. In: VII Journey for Research and Extension of the UFRJ-Macaé Campus, Macaé, Brazil.
21. Mata Junior, J.A.R.\*, **Ribeiro, R.P.**, Paiva, P.C., Zanol, J., Ruta, C. (2015) Biodiversity of polychaete annelids in the São Pedro and São Paulo Archipelago with morphological and molecular data: preliminary characterization. In: XXXVII Giulio Massarani Journey of Scientific, Technological, Artistic and Cultural Initiation, Rio de Janeiro, Brazil.
20. Sousa, L.K.S.\*, Cutrim, A.S.T.\*, **Ribeiro, R.P.**, Almeida, Z.S. (2014) Application of the marine biotic index (AMBI) to assess environmental disturbance in mangroves in São Marcos Bay, Maranhão. In: Brazilian Congress Oceanography, Itajaí, Brazil.
19. Cutrim, A.S.T.\*, Sousa, L.K.S.\*, **Ribeiro, R.P.**, Almeida, Z.S. (2014) Survey of macrofaunal polychaetes in mangrove regions of the Golfão Maranhense. Brazilian Congress Oceanography, Itajaí, Brazil.
18. **Ribeiro, R.P.**; Sousa, L.K.S.\*; Cutrim, A.S.T.\*; Almeida, Z.S. (2013) Reproduction of the Syllidae (Annelida: Polychaeta): observations over the reproductive period in mangrove areas of São Marcos Bay, Maranhão, Brazil. XV Congreso Latinoamericano de Ciencias del Mar, Punta del Leste, Uruguay.
17. Sousa, L.K.S.\*; Cutrim, A.S.T.\*; **Ribeiro, R.P.**; Almeida, Z.S. (2013) Geographic distribution of Scolecida (Polychaeta: Annelida) in Maranhão. XVIII Northeast Zoology Meeting, Maceió, Brazil.
16. Cutrim, A.S.T.\*; Sousa, L.K.S.\*; **Ribeiro, R.P.**; Almeida, Z.S. (2013) Characterization of the polychate fauna in a mangrove in the port region of Itaqui, Maranhão. In: XVIII Northeast Zoology Meeting, Maceió, Brazil.
15. Cutrim, A.S.T.\*; Sousa, L.K.S.\*; **Ribeiro, R.P.**, Almeida, Z.S. (2013) Quali-quantitative analysis of polychaetes in mangroves around the Port Region of Itaqui, Maranhão, Brazil. Science and Life, São Luís, Brazil.
14. Cutrim, A.S.T.\*; Sousa, L.K.S.\*; **Ribeiro, R.P.**, Borges, D.S., Almeida, Z.S. (2013) Composition and distribution of polychaete annelids in mangroves in São Marcos Bay, Maranhão. VIII Academic-Scientific Exhibition in Biological Sciences, São Luís, Brazil.
13. Marques, V.H.A., Menezes, A.R., Ferreira, B.C.A., Silva, D.A.O., Ferreira, F.A., Souto, N.M., **Ribeiro, R.P.**, Leita, A.S.L., Barbosa, A.C., Gomes, M.A.B., Silva, J.Z.P., Ruta, C. (2013) State of the Art of Aciculata (Polychaeta: Annelida) from Brazil. XXXV Giulio Massarani Journey of Scientific, Technological, Artistic and Cultural Initiation UFRJ, Macaé, Brazil.
12. Sousa, L.K.S.\*; Cutrim, A.S.T.\*; **Ribeiro, R.P.**, Almeida, Z.S. (2013) Comparison of the Capitellidae (Scolecida: Polychaeta) community between two mangroves in São Marcos Bay, Maranhão Coast, Brazil. XI Ecology Congress of Brazil and I International Congress of Ecology, Porto Seguro, Brazil.
11. Cutrim, A.S.T.\*; Sousa, L.K.S.\*; **Ribeiro, R.P.**, Almeida, Z.S. (2013) Trophic structure and ecomorphological patterns of polychaete annelids in mangroves in São Marcos Bay, Maranhão, Brazil. In: XI Congress of Ecology of Brazil and I International Congress of Ecology, Porto Seguro, Brazil.
10. Cutrim, A.S.T.\*; Sousa, L.K.S.\*; **Ribeiro, R.P.**, Almeida, Z.S. (2012) Faunal composition of polychaetes from unconsolidated substrates in Camboa dos Frades, Maranhão. VII Academic-Scientific Exhibition in Biological Sciences, São Luís, Brazil.
9. Sousa, L.K.S., **Ribeiro, R.P.**; Cutrim, A.S.T.\*; Almeida, Z.S. (2012) Spatial distribution of the macroendofauna of annelids, sipuncles, nemertines and arthropods in three streams of São Marcos Bay, Maranhão. VII Academic-Scientific Exhibition in Biological Sciences, São Luís, Brazil.
8. Cavalcanti, L.F., **Ribeiro, R.P.**, Sousa, D.B.P., Pereira, L.A. (2012) Assembly of the skeleton of *Caiman crocodilus crocodilus* as a teaching tool for the study of comparative anatomy. VII Academic-Scientific Exhibition in Biological Sciences, São Luís, Brazil.

7. Sousa, L.K.S.\*, Cutrim, A.S.T.\*, **Ribeiro, R.P.**, Almeida, Z.S. (2012) Temporal variation of polychaete annelids in São Marcos Bay, Maranhão. Brazilian Oceanography Congress, Rio de Janeiro, Brazil.
6. Cutrim, A.S.T.\*, Sousa, L.K.S.\*, **Ribeiro, R.P.**, Almeida, Z.S. (2012) Spatial distribution of Nereididae (Annelida: Polychaeta) in São Marcos Bay, Maranhão. Brazilian Oceanography Congress, Rio de Janeiro, Brazil.
5. **Ribeiro, R.P.**, Almeida, Z.S., Leitão, A.S.L., Ruta, C. (2012) Influence of some abiotic variables on the composition and spatial distribution of Polychaeta in maneguzais of São Marcos Bay, Maranhão, Brazil. III Latin American Polychaetes Symposium, Isla Margarita, Venezuela.
4. Cutrim, A.S.T.\*; Sousa, L.K.S.\*; **Ribeiro, R.P.**; Almeida, Z.S. (2012) Nereididae (Annelida, Polychaeta), geographic distribution in Costa Maranhense, Brazil. III Latin American Polychaetes Symposium, Isla Margarita.
3. Sousa, L.K.S.\*, Cutrim, A.S.T.\*, **Ribeiro, R.P.**, Almeida, Z.S. (2011) Spatial distribution of polychaete annelids in São Marcos Bay, Maranhão, Brasil. 64th Annual Meeting of the Brazilian Society for the Progress of Science, São Luís, Brazil.
2. Santos, N.B., Almeida, Z.S., Sousa, A.R., **Ribeiro, R.P.**, Rodrigues, C.A.L. (2011) Survey of the benthic fauna for monitoring the region of Itaqui Port, São Luís-MA. XIV Latin American Congress of Marine Sciences, Balneário Camboriú, Brazil
1. Barbosa, G.L., Sousa, D.B.P., **Ribeiro, R.P.**, Santos, P.D.F., Carvalho-Neta, R.N.F. (2011) Diversity of hermit crabs (Decapoda, Anomura, Paguroidea) on Araçagy beach, São Luís - Maranhão. 3rd Brazilian Congress of Marine Biology, Natal, Brazil.

## Teaching Experience

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|-------------------|--|
| 07/2023           | <b>Embryology Course</b> , Marine Biological Laboratory, Teaching Assistant                            |
| 09/2020           | <b>Practical English for Biological Science</b> , State University of Maranhão, Teaching Assistant     |
| 01/2018 - 06/2021 | <b>Zoology</b> , Dept. of Biology, Autonomous University of Madrid, Teaching Assistant                 |
| 02/2019           | <b>Marine Biodiversity</b> , University of Göttingen, Teaching Assistant                               |
| 02/2016 - 07/2016 | <b>Aquatic Biology</b> , Darcy Ribeiro Program, State University of Maranhão, Lecturer                 |
| 08/2016 - 10/2016 | <b>Biology Teaching in High School</b> , Darcy Ribeiro Program, State University of Maranhão, Lecturer |
| 08/2016 - 09/2016 | <b>Environmental Education</b> , Darcy Ribeiro Program, State University of Maranhão, Lecturer         |
| 09/2011 - 07/2012 | <b>Invertebrate Zoology</b> , State University of Maranhão, Teaching Assistant                         |

## Course Development

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6. **Ribeiro, R.P.** (2023) Find the pairs. Embryology Course. Marine Biological Laboratory. Memory game. Genially. [Link](#)
5. **Ribeiro, R.P.** (2021) Gamizoo Bivalvos. Zoology course. Autonomous University of Madrid. Image-quizz. Genially. [Link](#)
4. **Ribeiro, R.P.** (2021) Gamizoo Insectos. Zoology course. Autonomous University of Madrid. Quizz. Kahoot!.[Link](#)
3. **Ribeiro, R.P.** (2020) Hobbying. English course, State University of Maranhão. Quizz game. Genially. [Link](#).
2. **Ribeiro, R.P.**, Hernández, M.C. (2020) Gamizoo Aves de Navaseca. Zoology course. Autonomous University of Madrid. Image-quizz. Genially. [Link](#).
1. **Ribeiro, R.P.**, Hernández, M.C. (2020) Gamizoo Aves. Zoology course. Autonomous University of Madrid. Quizz. Genially.[Link](#).

## Mentoring

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06/2024-current	<b>Alina Krawczynski</b> , Undergraduate student. Washington University in St. Louis, Mentor
05/2024-current	<b>Adebimbola Adedeji</b> , Undergraduate student. Washington University in St. Louis, Mentor
01/2023-current	<b>Kaitlyn Hong</b> , Undergraduate student. Washington University in St. Louis, Mentor
11/2023-01/2024	<b>Hung-Ting Wu</b> , Graduate Student in rotation. Washington University in St. Louis, Mentor
10/2023-04/2024	<b>Abhay Vidwans</b> , Postdoc. Washington University in St. Louis, Mentor
09/2023-05/2024	<b>Lisa Cheung</b> , Undergraduate student. Washington University in St. Louis, Mentor
09/2016-08/2017	<b>Antonia R. G. Lima</b> , Bachelor's in Biology, State University of Maranhão, Advisor
09/2016-08/2017	<b>Rosângela S. Viana</b> , Bachelor's in Biology, State University of Maranhão, Advisor
09/2016-08/2017	<b>Camila M. C. Teixeira</b> , Bachelor's in Biology, State University of Maranhão, Advisor
09/2016-08/2017	<b>Cassiano A. Moura</b> , Bachelor's in Biology, State University of Maranhão, Advisor
09/2016-08/2017	<b>Dayane P. S. Martins</b> , Bachelor's in Biology, State University of Maranhão, Advisor
09/2016-08/2017	<b>Diego S. Martins</b> , Bachelor's in Biology, State University of Maranhão, Advisor
09/2016-08/2017	<b>Evelyn K. S. Batista</b> , Bachelor's in Biology, State University of Maranhão, Advisor
09/2016-08/2017	<b>Getúlio A. Lima</b> , Bachelor's in Biology, State University of Maranhão, Advisor
03-09/2016	<b>Francisca C. Sousa</b> , Master's Teaching Genetics, State University of Maranhão, Advisor
03-09/2016	<b>Wedison S. Marques</b> , Master's Teaching Genetics, State University of Maranhão, Advisor
03-09/2016	<b>Nancy N. C. F. Marques</b> , Master's Teaching Genetics, State University of Maranhão, Advisor
01-12/2015	<b>Jairo A.R. Mata-Junior</b> , Undergraduate student, State University of Maranhão, Mentor
04/2011-12/2015	<b>Lorena K. S. Sousa</b> , Undergraduate student, State University of Maranhão, Mentor
04/2011-12/2015	<b>Allana S. T. Cutrim</b> , Undergraduate student, State University of Maranhão, Mentor

## Outreach and Professional Development

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### SERVICE AND OUTREACH

08/2024	<b>Research Presentation Review</b> , SACNAS annual meeting, Reviewer
06/2024-current	<b>Postdoc Grant and Job Application Hub</b> , WashU Postdoctoral Society, Founder and Organizer
07/2023-06/2024	<b>Outreach Director</b> , WashU Postdoctoral Society, Officer
09/2023-03/2024	<b>Danforth Task Force in Culture and Climate</b> , Washington University in St. Louis, Member
09/2022-06/2023	<b>Danforth Postdoc Representative</b> , WashU Postdoctoral Society, Officer
01-10/2022	<b>BioBLITZ Maranhão - outreach project</b> , State University of Maranhão, Member
09/2022	<b>Table Topics - Workshop</b> , Washington University in St. Louis, Organizer
03/2022	<b>Research presentation Review</b> , SACNAS annual meeting, Reviewer
10/2014	<b>Scientificarte</b> , National Science and Technology Appreciation Week, Instructor
10/2012	<b>LabPEA Stand</b> , National Science and Technology Appreciation Week, Instructor
09/2011-10/2012	<b>Program Committee</b> , VII Academic-Scientific Exhibition in Biological Sciences, Chair
09/2010-10/2011	<b>Scientific Committee</b> , VI Academic-Scientific Exhibition in Biological Sciences, Member

### THESIS COMMITTEE MEMBER

17. Delfina Gutiérrez, MSc in Zoology, Federal Univerity of Rio de Janeiro, 2024.
16. Wallacy B.T. Silva, MSc in Biodiversity and Conservation, State University of Maranhão, 2023.
15. Alaine Silva, BSc in Biology, State University of Maranhão, 2016.
14. Dany Sara Santos, BSc in Biology, State University of Maranhão, 2016.
13. Gleydiane Conceição, BSc in Biology, State University of Maranhão, 2016.
12. Ana Paula Pereira da Silva, MEd in Genetics Teaching, State University of Maranhão, 2016.
11. Antonia Pires do Nascimento, MEd in Genetics Teaching, State University of Maranhão, 2016.
10. Arettuza Silva Carvalho, MEd in Genetics Teaching, State University of Maranhão, 2016.
9. Danielde Sousa Carvalho, MEd in Genetics Teaching, State University of Maranhão, 2016.
8. Elson Silva de Sousa, MEd Genetics Teaching, State University of Maranhão, 2016.



7. Naiara Soares Silva, MEd in Genetics Teaching, State University of Maranhão, 2016.
6. Tyessy Gomes Sousa, MEd in Genetics Teaching, State University of Maranhão, 2016.
5. Nancy N.C.Freitas Marques, MEd in Genetics Teaching, State University of Maranhão, 2016.
4. Francisca de Castro Sousa, MEd in Genetics Teaching, State University of Maranhão, 2016.
3. Wedison Sampaio Marques, MEd in Genetics Teaching, State University of Maranhão, 2016.
2. Elaine Carvalho da Silva, MEd in Genetics Teaching, State University of Maranhão, 2016.
1. Larisse Costa Araújo, MEd in Genetics Teaching, State University of Maranhão, 2016.

## **COURSES AND CAREER PROGRAMS**

9. ISRB Career Catalyst Mentorship Program. Mentee. International Society for Regenerative Biology (2024)
7. WashU Postdoctoral Mentorship Program. Mentee and Mentor (2022-2024)
6. Fellowship Writing Workshop-NIH. Washington University in St. Louis (07/2022)
5. Spanish-C1 (100h). Course. Autonomous University of Madrid (09/2019-05/2020)
4. Molecular Genetics in Zoology (30h). Course. Georg-August-Universität Göttingen, Germany (09/2019)
3. Annelid Systematics, Morphology and Evolution ( 108h). Course. University of Bergen, Norway (07/2017)
2. Business (60h). Course. State Univeristy of Maranhão, Brazil (08/2016)
1. English (180h). Course. Coordenação de Aperfeiçoamento de Pessoal de Nível Superior, Brazil (2014-2015)

## **JOURNAL PEER REVIEW**

9. Journal of Developmental Biology (2023)
8. BMC Genomics (2023)
7. Systematics and Biodiversity (2023)
6. Functional and Integrative Genomics (2021-2022)
5. Biodiversity Data Journal (2021)
4. European Journal of Taxonomy (2020)
3. Journal of Experimental Biology (2019)
2. Hydrobiologia (2019)
1. Journal of Coastal Research (2015–2017)

## **PROFESSIONAL MEMBERSHIPS**

7. International Society for Regenerative Biology (2023 - current)
6. National Postdoctoral Association, United States of America (2022 - current)
5. Society for Developmental Biology (2022 - current)
4. Washington University Postdoctoral Society (2022 - current)
3. Society for Advancement of Chicanos/ Hispanics and Native Americans in Science (2022 – current)
2. International Polychaete Association (2019 – 2022)
1. European Society for Evolutionary Biology (2018–current)

## **GRANT AND FELLOWSHIP APPLICATIONS**

8. Glenn Foundation Postdoctoral Fellowship 2024.
7. Janelia Leading Edge Fellows Program 2024.
6. Glenn Foundation Postdoctoral Fellowship 2023.
5. Life Sciences Research Foundation Postdoctoral Fellowship 2023.
4. Conselho Nacional de Desenvolvimento Científico e tecnologico - CNPq Postdoctoral Fellowship 2021
3. FPI-UAM. Program of Predoctoral Research Fellowship from the Autonomous University of Madrid 2016. Granted.
2. Conselho Nacional de Desenvolvimento Científico e tecnologico - CNPq Undergraduate Research Fellowship 2011. Granted.
1. Conselho Nacional de Desenvolvimento Científico e tecnologico - CNPq Undergraduate Research Fellowship 2010. Granted.

## **SCIENCE ARTWORK**

4. **Ribeiro, R.P.** [@rannyprib] (November, 2023) Dodecaceria zelinhae. Instagram. Link. *Comic strip*
3. **Ribeiro, R.P.** [@rannyprib] (May, 2022) Kirkegaardia zafirae. Instagram. Link. *Comic strip*
2. **Ribeiro, R.P.** [@rannyprib] (July, 2021) Happy Polychaete Day! Instagram. Link. *Comic strip*
1. **Ribeiro, R.P.** [@rannyprib] (May, 2021) [EN] Thinking of a cover page for my PhD thesis. Instagram. Link. *Comic strip*.