

MANUELA DE O. RAMALHO

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PROFESSIONAL APPOINTMENTS

West Chester University, PA, USA. Assistant Professor, Department of Biology. (Aug 2022 - current).

Cornell University, Ithaca, NY, USA. Postdoctoral Researcher, Department of Entomology and Ecology and Evolutionary Biology. (Jan 2019 – Aug 2022)

Field Museum of Natural History, Chicago, IL, USA. Postdoctoral Researcher, Department of Science and Education. (Jun 2018 – Dec 2018)

Universidade Estadual Paulista Júlio de Mesquita Filho, UNESP, Brazil. Research Fellow, Universidade Estadual Paulista, Social Insects Study Center. (Jun 2017 – May 2018)

EDUCATION

Ph.D. in Cell and Molecular Biology. **UNESP, Brazil**, including a collaborative period in the **Field Museum, USA**. Advisor: Odair Correa Bueno and Corrie Saux Moreau (2013 – 2017).

Dissertation: “Ants’ microbiome with emphasis in Camponotini (Hymenoptera, Formicidae)”

M.S. in Cell and Molecular Biology. **UNESP, Brazil**. Advisor: Odair Correa Bueno (2011 – 2013).

Thesis: “Molecular analyses and the presence of endobacteria in *Camponotus textor* Forel, 1899 (Hymenoptera, Formicidae)”

B.S. in Biological Sciences. **UNESP, Brazil**. Advisor: Odair Correa Bueno (2006 – 2010).

Honors thesis: “Sequencing of a mitochondrial DNA fragment from *Camponotus textor* Forel, 1899 (Hymenoptera, Formicidae)”

PUBLICATIONS (PEER-REVIEWED)

* denotes mentee/supervisee.

28. Graber, L. C.; **Ramalho, M.O.**; Powell, S.; Moreau, C. S. Identifying the role of elevation, geography, and species identity in structuring turtle ant (*Cephalotes* Latreille, 1802) bacterial communities. *Molecular Ecology*, 2022. *Accepted*.

27. Wang, S. Y.; **Ramalho, M.O.** Co-diversification of *Camponotus* and its primary endosymbiont *Blochmannia* in the USA. *Cornell Undergraduate Research Journal*, 2022. *Accepted*.

26. Oliveira, A. A.; **Ramalho, M.O.**; Moreau, C. S.; Campos, A. E. C.; Harakava, R.; Bueno, O. C. Exploring the diversity and potential interactions of bacterial and fungal endophytes associated with different cultivars of olive (*Olea europaea*) in Brazil. *Microbiological Research*, 2022. DOI: <https://doi.org/10.1016/j.micres.2022.127128>

25. **Ramalho, M.O.**; Decio, P.; Albuquerque, E. Z.; Esteves, F. Quem pega seu filho na escola quando você está em campo? A parentalidade na mirmecologia. *Anais do III Simpósio Brasileiro sobre Maternidade e Ciência*, 2022. DOI: <https://doi.org/10.54265/DYIS8270>

24. **Ramalho, M.O.**; Menino, L.*; Souza, R.F.*; Kayano, D.Y.*; Alves, J.M.C.*; Harakava, R.; Nagatani, V.H.*; Silva, O.G.M.*; Bueno, O.C.; Morini, M.S.C. Fire ants: What do rural and urban areas show us about occurrence, diversity, and ancestral state reconstruction? *Genetics and Molecular Biology*, 2022. DOI: <https://doi.org/10.1590/1678-4685-GMB-2021-0120>

23. Martins, C.; **Ramalho, M.O.**; Silva, L.M.R.; Souza, R.F.; Bueno, O.C. New Strains of *Wolbachia* Unveiling the Complexity of This Symbiotic Interaction in *Solenopsis* (Hymenoptera: Formicidae). *Microbiology Research*, 2021. DOI: <https://doi.org/10.3390/microbiolres12030040>
22. Machado, L.M.*; Da Silva, T.N.*; Polezel, D.R.; Oliveira, A.A.*; **Ramalho, M.O.**; Pagnocca, F.C.; Bueno, O.C. Attractivity or repellence: relation between the endophytic fungi of *Acalypha*, *Colocasia* and the leaf-cutting ants- *Atta sexdens*. *Advances in Entomology*, 2021. DOI: [10.4236/ae.2021.92008](https://doi.org/10.4236/ae.2021.92008)
21. **Ramalho, M.O.**; Kim, Z.*; Wang, S.*; Moreau, C.S. *Wolbachia* across social insects: Patterns and implications. *Annals of the Entomological Society of America*, 2021. DOI: <https://doi.org/10.1093/aesa/saaa053>
20. **Ramalho, M.O.**; Moreau, C.S. The Evolution and Biogeography of *Wolbachia* in Ants (Hymenoptera: Formicidae). *Diversity*, 12, 426. 2020. DOI: <https://doi.org/10.3390/d12110426>
19. Caruzo, M.B.R.; **Ramalho, M.O.**; Philipp, J.; Bragagnolo, C. Maternity, science, and pandemic: an urgent call for action! *Hoehnea*, 47: e812020. 2020. DOI: <https://doi.org/10.1590/2236-8906-81/2020>
18. **Ramalho, M.O.**; Martins, C.; Morini, M. S. C.; Bueno, O. C. What Can the Bacterial Community of *Atta sexdens* (Linnaeus, 1758) Tell Us about the Habitats in Which This Ant Species Evolves? *Insects*, 11(6), 332. 2020. DOI: <https://doi.org/10.3390/insects11060332>
17. **Ramalho, M. O.**; Duplais, C.; Orivel, J.; Dejean, A.; Gibson, J. C.; Suarez, A. V.; Moreau, S. C. Development but not diet alters microbial communities in the Neotropical arboreal trap jaw ant *Daceton armigerum*: an exploratory study. *Scientific Reports*, 2020. DOI: <https://doi.org/10.1038/s41598-020-64393-7>
16. **Ramalho, M. O.**; Martins, C.; Moreau, S. C. Myrmecology: Majority of females only within the colony. *Boletim do Museu Paraense Emílio Goeldi – Ciências Naturais*. 2020. DOI: <https://doi.org/10.46357/bcnaturais.v15i1.241>
15. **Ramalho, M. O.**; Decio, P. Albuquerque, E. Z.; Esteves, F. Parenting in the myrmecology field: career challenges in the 21st century. *Boletim do Museu Paraense Emílio Goeldi – Ciências Naturais*. 2020. DOI: <https://doi.org/10.46357/bcnaturais.v15i1.255>
14. Dorigo, A. S.+; Anjos, A.+; Marcato, A.C.C.+; Pires-Silva, D.+; Gonçalves, L. R.+; Anholetto, L. A.+; Cholak, L. R.+; **Ramalho, M. O.**+; Borba, R. S.+; Ortelani, M. P.; Cabral-De-Melo, D. C. Projeto Primeiros Passos na Ciência: Rompendo barreiras sociais e estreitando laços entre a comunidade acadêmica e o Ensino Médio público. *Revista Brasileira de Extensão Universitária*, 11(1), 47-59, 2020. DOI: <https://doi.org/10.36661/2358-0399.2020v11i1.10768> (+ shared first authorship)
13. Reeves, D.*; Price, S. L.; **Ramalho, M. O.**; Moreau, C. S. The diversity and distribution of *Wolbachia*, Rhizobiales, and *Ophiocordyceps* within the widespread Neotropical turtle ant, *Cephalotes atratus* (Hymenoptera: Formicidae). *Neotropical Entomology*, 2020. DOI: <https://link.springer.com/article/10.1007/s13744-019-00735-z>
12. **Ramalho, M. O.**; Moreau, C. S.; Bueno, O. C. The Potential Role of Environment in Structuring the Microbiota of *Camponotus* across Parts of the Body. *Advances in Entomology*, 7, 47-70, 2019. DOI: <https://doi.org/10.4236/ae.2019.73005>
11. Kelly, M.*; Price, S. L.; **Ramalho, M. O.**; Moreau, C. S. Diversity, evolutionary history, and specificity of *Wolbachia* associated with the giant turtle ant, *Cephalotes atratus*. *Current Microbiology*, 2019. DOI: <https://doi.org/10.1007/s00284-019-01722-8>.

10. Silva, L. M. R.; **Ramalho, M. O.**; Martins, C.; Martins, V. G.; Bueno, O. C. Diversity of *Wasmannia auropunctata* (Hymenoptera: Formicidae) and the utility of mitochondrial intergenic spacer and leucine tRNA for its identification. *Revista De Ciências Ambientais (Unilasalle)*, 2018. DOI: <https://revistas.unilasalle.edu.br/index.php/Rbca/article/view/4048/pdf>
9. **Ramalho, M. O.**; Vieira, A. S.; Pereira, M. C.; Moreau, C. S.; Bueno, O. C. Transovarian transmission of *Blochmannia* and *Wolbachia* endosymbionts in the neotropical weaver ant *Camponotus textor* (Hymenoptera, Formicidae). *Current Microbiology*, V. 1, P. 1-8, 2018. DOI: <https://link.springer.com/content/pdf/10.1007/s00284-018-1459-3.pdf>
8. **Ramalho, M. O.**; Martins, C.; Silva, L. M. R.; Martins, V. G.; Bueno, O. C. Intracellular Symbiotic Bacteria of *Camponotus textor*, Forel (Hymenoptera, Formicidae). *Current Microbiology (Print)*, v. 1, p. 1-9, 2017. DOI: <https://link.springer.com/article/10.1007/s00284-017-1201-6>
7. **Ramalho, M. O.**; Bueno, O. C.; Moreau, C. S. Microbial composition of spiny ants (Hymenoptera: Formicidae: *Polyrhachis*) across their geographic range. *BMC Evolutionary Biology (Online)*, v. 17, p. 1-15, 2017. DOI: <https://bmcevolbiol.biomedcentral.com/articles/10.1186/s12862-017-0945-8>
6. **Ramalho, M. O.**; Martins, C.; Campos, T.; Nondillo, A.; Botton, M.; Bueno, O. C. Occurrence of 15 Haplotypes of *Linepithema micans* (Hymenoptera: Formicidae) in Southern Brazil. *Journal of Economic Entomology*, v. x, p. 1-6, 2017. DOI: <https://academic.oup.com/jee/article/110/4/1841/3852640>
5. **Ramalho, M. O.**; Bueno, O. C.; Moreau, C. S. Species-specific signatures of the microbiome from *Camponotus* and *Colobopsis* ants across developmental stages. *PLoS One*, v. 12, p. e0187461, 2017. DOI: <https://journals.plos.org/plosone/article/file?id=10.1371/journal.pone.0187461&type=printable>
4. Vieira, A. S.; **Ramalho, M. O.**; Martins, C.; Martins, V. G.; Bueno, O. C. Microbial Communities in Different Tissues of *Atta sexdens rubropilosa* Leaf-cutting Ants. *Current Microbiology*, v. 1, p. 1-10, 2017. DOI: <https://link.springer.com/article/10.1007/s00284-017-1307-x>
3. **Ramalho, M. O.**; Martins, C.; Silva, L. M. R.; Martins, V. G.; Bueno, O. C. Molecular Profile of the Brazilian Weaver Ant *Camponotus textor* Forel (Hymenoptera, Formicidae). *Neotropical Entomology*, v. x, p. 1-8, 2016. DOI: <https://link.springer.com/article/10.1007/s13744-016-0392-z>
2. **Ramalho, M. O.**; Santos, R. M.; Fernandes, T. T.; Morini, Msc; Bueno, O.C. Cytochrome C Oxidase I DNA sequence of *Camponotus* ants with different nesting strategies is a tool for distinguishing between morphologically similar species. *Genetica* (s-Gravenhage), p. 1-9, 2016. DOI: <https://link.springer.com/article/10.1007/s10709-016-9906-1>
1. **Ramalho, M. O.**; Araujo, D.; Schneider, M. C.; Brescovit, A. D.; Cella, D. M. *Mesabolivar Braziliensis* (Moenkhaus) and *Mesabolivar cyaneotaeniatus* (Keyserling) (Araneomorphae, Pholcidae): close relationship reinforced by cytogenetic analyses. *The Journal of Arachnology*, v. 36, p. 453-456, 2008. DOI: <https://doi.org/10.1636/CSh07-132.1>

ORAL PRESENTATIONS/ TALKS

41. La Salle University, USA. 2022. **Invited speaker.** Check out some media news [here](#).
40. Embrapa, RS, Brazil. 2022. **Invited speaker.**
39. City College New York, USA. 2022. **Invited speaker.**
38. Unicamp, Brazil. 2022. **Invited speaker.**
37. Hormigas Neotropicales, International group. 2022. Check out some media news [here](#). **Invited speaker.**
36. Society for Integrative and Comparative Biology (SICB), USA. 2022.

35. Congresso Brasileiro de Zoologia, Brazil. 2022. **Invited speaker.**
34. Universidade de São Paulo (USP), Entomology Department, Brazil. 2022. **Invited speaker.**
33. Entomological Society of America meeting (ESA), USA. 2021. **Invited speaker.**
32. IUSSI (International Union for the Study of Social Insects) SecBras, Brazil. 2021. **Invited speaker.**
31. Cornell University, USA. 2021. **Invited speaker.**
30. Universidade Estadual Paulista, Unesp RC, Brazil. 2021. **Invited speaker.**
29. Universidade de Mogi das Cruzes, Brazil. 2021. **Invited speaker.**
28. Universidade Federal do ABC, Brazil. 2021. **Invited speaker.**
27. UC Davis Department of Entomology and Nematology, USA. 2021. Check out the media news [here](#) and [here](#). **Invited speaker.**
26. Evolution meeting, USA. 2021.
25. Universidade Federal do Delta do Parnaíba (UFDPAr), Brazil. 2021. **Invited speaker.**
24. Entomological Society of America meeting (ESA), USA. 2020.
23. I Ciclo Mirmecológico Universidade Federal da Paraíba (live panel) Brazil. 2020. **Invited speaker.** Check out here: <https://www.youtube.com/watch?v=CaY2R9u17eQ>
22. Instituto Federal (live panel), Brazil. 2020. **Invited speaker.**
21. Pint of Science (live panel), Brazil. 2020. **Invited speaker.**
20. Universidade Federal de Roraima, Brazil. 2020. **Invited speaker.**
19. Centro Universitário da Fundação Hermínio Ometto, Brazil. 2020. **Invited speaker.**
18. Field Museum Chicago, USA. 2020. **Invited speaker.**
17. Cornell University, USA. 2019. **Invited speaker.**
16. Tropical Biology and Conservation Symposium, USA. 2019. **Invited speaker.**
15. XXIV Myrmecology Symposium: An International Ant Meeting (first talk), Brazil. 2019.
14. XXIV Myrmecology Symposium: An International Ant Meeting (second talk), Brazil. 2019. **Invited speaker.**
13. Evolution meeting, USA. 2019.
12. Encontro Arte Cultura e Ciência (first talk), Brazil. 2019. **Invited speaker.**
11. Encontro Arte Cultura e Ciência, (second talk), Brazil. 2019. **Invited speaker.**
10. Entomological Society of America meeting (ESA), Canada. 2018.
9. XXXV Encontro Anual de Etologia. Brazil. 2017. **Invited speaker.**
8. XXIII Simpósio de Mirmecologia: An International Ant Meeting, Brazil. 2017. **Invited speaker.**
7. III IUSSI workshop, Brazil. 2016.
6. Universidade Estadual Paulista, Unesp, Brazil. 2016. **Invited speaker.**
5. Cell and Molecular Biology Graduate symposium, Brazil. 2016. **Invited speaker.**
4. Field Museum Chicago, USA. 2015.
3. Concordia University, USA. 2015. **Invited speaker.**
2. Entomological Society of America meeting (ESA), USA. 2015.
1. III Symposium of BioCelMol, Brazil. 2013. **Invited speaker.**

POSTER PRESENTATIONS

* denotes mentee/supervisee.

29. Webb, J.*; **Ramalho, M. O.**; Moreau, C. S. ***Wolbachia* diversity and *Polyrhachis* ants.** CIHMID Symposium. Cornell University, NY, USA. 2021.
28. Oliveira, A. A.*; **Ramalho, M. O.**; Campos, A. E. C.; Harakava, R.; Bueno, O. C. Relationship between the endophytic fungi of *Acalypha* and *Colocasia* and the leaf-cutting ants. In: XXIV Myrmecology Symposium: An International Ant Meeting, Belo Horizonte, MG, Brazil. 2019.
27. Silva, T. N.*; **Ramalho, M. O.**; Oliveira, A. A.; Harakava, R.; Bueno, O.C. Relationship between the endophytic fungi of *Acalypha* and *Colocasia* and the leaf-cutting ants. In: Congress of Scientific Initiation, Unesp, 2018.
26. Amaral, G.*; **Ramalho, M. O.**; Bueno, O.C. Nitrogen supplementation in *Atta sexdens rubropilosa* may be composed of two-way cooperative action. In: V Symposium on Cell and Molecular Biology, 2017, Rio Claro –SP, Brazil.

25. Camanovici, M. L.*; **Ramalho, M. O.**; Vieira, A. S.; Bueno, O.C. Identification, distribution and frequency of Mesoplasm in *Atta sexdens rubropilosa* (Hymenoptera: Formicidae). In: V Symposium on Cell and Molecular Biology, 2017, Rio Claro –SP, Brazil.
24. Silva, T. N.*; **Ramalho, M. O.**; Oliveira, A. A.; Harakava, R.; Bueno, O.C. Endophytic fungi of *Acalypha wilkesiana* Musaica related to leaf-cutting ants. In: V Symposium on Cell and Molecular Biology, 2017, Rio Claro –SP, Brazil.
23. Amaral, G.*; **Ramalho, M. O.**; Bueno, O. C. Morphological and molecular identification of *Camponotus* specimens (Formicidae) from south and north America. In: XXIII Simpósio de Mirmecologia: An International Ant Meeting, 2017, Curitiba, PR, Brazil.
22. Camanovici, M. L.*; **Ramalho, M. O.**; Vieira, A. S.; Bueno, O.C. Identification, distribution and frequency of Mesoplasma in *Atta sendens rubropilosa* (Hymenoptera: Formicidae). In: XXIII Simpósio de Mirmecologia: An International Ant Meeting, 2017, Curitiba, PR, Brazil.
21. Silva, T. N.*; **Ramalho, M. O.**; Bueno, O. C. Diversity of endophytic fungi of *Acalypha wilkesiana* 'Musaica': interaction with leaf-cutting ants. In: XXIX Congress of Scientific Initiation of Unesp, 2017, Rio Claro -SP.
20. Silva, T. N.*; **Ramalho, M. O.**; Polezel, D. R.; Oliveira, A. A.; Pagnocca, F. C.; Bueno, O. C. Endophytic fungi from *Acalypha wilkesiana* 'Musaica' related to leaf-cutting ants. In: XXIII Simpósio de Mirmecologia: An International Ant Meeting, 2017, Curitiba, PR, Brazil.
19. Vieira, A. S.; **Ramalho, M. O.**; Martins, C.; Bueno, O. C. Endobacteria in postpharyngeal gland of *Atta sexdens rubropilosa* queens (Hymenoptera, Formicidae). In: III IUSSI workshop Brazil, 2016, Rio Claro, SP, Brazil.
18. Bastos, M. G.*; **Ramalho, M. O.**; Silva, L. M. R.; Bueno, O. C. Molecular and phylogenetic analyses in *Cephalotes* (Hymenoptera, Formicidae), and survey of the endosymbiont *Wolbachia*. In: III IUSSI workshop Brazil, 2016, Rio Claro, SP, Brazil.
17. **Ramalho, M. O.**; Santos, R. M.; Fernandes, T. T.; Morini, M. S. C.; Bueno, O. C. The COI DNA barcode associated with biological characteristics as a tool for the identification of two cryptic species of *Camponotus* ants (Hymenoptera, Formicidae). In: III IUSSI workshop Brazil, 2016, Rio Claro, SP, Brazil.
16. Marchesin, T. F. R.*; **Ramalho, M. O.**; Silva, L. M. R.; Bueno, O. C. Evidence of *Wolbachia* in populations of *Ectatomma* spp. (Hymenoptera: Formicidae). In: IV Symposium on Cell and Molecular Biology and 1st Brazilian Meeting of Graduate Programs in Cell and Molecular Biology, 2015, Rio Claro, SP, Brazil.
15. Bastos, M. G.*; **Ramalho, M. O.**; Silva, L. M. R.; Bueno, O. C. Frequency of endosymbiont *Wolbachia* in populations of the *Cephalotes* (Hymenoptera, Formicidae). In: IV Symposium on Cell and Molecular Biology and 1st Brazilian Meeting of Graduate Programs in Cell and Molecular Biology, 2015, Rio Claro, SP, Brazil.
14. Bastos, M. G.*; **Ramalho, M. O.**; Silva, L. M. R.; Bueno, O. C. Analysis of the nuclear DNA and the presence and frequency of the endosymbiont *Wolbachia* in *Cephalotes* (Hymenoptera, Formicidae). In: XXII Simpósio de Mirmecologia An international ant meeting, 2015, Ilheus, BA, Brazil.
13. **Ramalho, M. O.**; Bueno, O. C.; Moreau, C. Molecular characterization of the microbiota associated with two genera of ants (*Polyrbachis* spp. and *Camponotus* spp.) (Hymenoptera, Formicidae) through Next Generation Sequencing. In: Ent Soc Entomology Society of America (ESA) 2015, 2015, Minneapolis, MN, USA.

12. Solis, D. R.; Fox, E. G. P.; Rossi, M. L.; Ceccato, M.; **Ramalho, M. O.**; Souza, R. F.; Bueno, O. C. Developmental abnormalities in adult reproductives of *Monomorium floricola* (Hymenoptera, Formicidae): external morphology and some possible causative factors. In: 8th International Congress of Hymenopterists, 2014, Cusco, Peru.
11. Bastos, M. G*; **Ramalho, M. O.**; Silva, L. M. R.; Bueno, O. C. Sequencing of a fragment from the 28S region of nuclear DNA of *Cephalotes chypeatus* and *Cephalotes spinosus* (Hymenoptera, Formicidae). In: 60° Brazilian Congress of Genetics, 2014, Guarujá, SP, Brazil.
10. Martins, C.; **Ramalho, M. O.**; Silva, L. M. R.; Bueno, O. C. Correlation between the *Wolbachia* endosymbionte and ants of the genus *Solenopsis* (Hymenoptera: Formicidae): evidence of coevolution and horizontal and vertical transmission patterns. In: XXV Brazilian Congress of Entomology, 2014, Goiânia, GO, Brazil.
9. Silva, L. M. R.; Martins, C.; **Ramalho, M. O.**; Bueno, O. C. Occurrence of *Wolbachia* in ants of the species *Wasmannia auropunctata* (Hymenoptera: Formicidae) from two localities in the state of Bahia. In: Brazilian Congress of Entomology, 2014, Goiânia, GO, Brazil.
8. **Ramalho, M. O.**; Martins, C.; Martins, V. G.; Bueno, O.C. Molecular characterization of partial mitochondrial genes COI and COII of *Camponotus textor* FOREL, 1899 (Hymenoptera, Formicidae). In: XXI Simpósio de Mirmecologia an international meeting, 2013, Fortaleza, CE, Brazil.
7. **Ramalho, M. O.**; Martins, C.; Martins, V. G.; Bueno, O.C. Presence and distribution of *Wolbachia* and *Blochmannia* endosymbionts in colonies of *Camponotus textor* Forel, 1899 (Hymenoptera, Formicidae). In: XXI Simpósio de Mirmecologia an international meeting, 2013, Fortaleza, CE, Brazil.
6. **Ramalho, M. O.**; Bueno, O.C. Use of DNA Barcode as a tool to identify species and strains of *Camponotus textor* (Forel, 1899) (Hymenoptera, Formicidae). In: XX Simpósio de Mirmecologia - I Encontro de Mirmecologistas de las Americas, 2011, Petrópolis, RJ, Brazil.
5. **Ramalho, M. O.**; Bueno, O.C. Sequencing of a fragment of mitochondrial DNA from *Camponotus textor* (FOREL, 1899) (Hymenoptera, Formicidae). In: CIC - 2010, 2010, Rio Claro, SP, Brazil.
4. **Ramalho, M. O.**; Bueno, O.C. Toxicity of Plant Extract to *Atta sexdens rubropilosa*. In: Open Congress of Biology Students, 2009, Campinas., SP, Brazil.
3. **Ramalho, M. O.**; Rodovalho, C.; Bacci, M. J.; Bueno, O.C. Sequencing of a fragment of the Mitochondrial DNA from *Pachycondyla villosa* (Fabricius, 1804) (Hymenoptera, Formicidae). In: Simpósio de Mirmecologia, 2009, Ouro Preto, MG, Brazil.
2. **Ramalho, M. O.**; Bueno, O.C. Toxicity of Plant Extract to workers of *Atta sexdens rubropilosa*. In: XX Congress of Scientific Initiation, 2008, São José dos Campos, SP, Brazil.
1. **Ramalho, M. O.**; Araujo, D.; Schneider, M. C.; Brescovit, A. D.; Cella, D. M. *Mesabolivar Braziliensis* and *Mesabolivar cyaneotaeniatus* (Araneomorphae, Pholcidae): closely related species according cytogenetical analyses. In: 17th International Congress of Arachnology, 2007, São Pedro, SP, Brazil.

AWARDS AND GRANTS

12. Travel Award (2021). Entomological Society of America, USA (\$800).
11. Early Career Award (2021). Cell and Molecular Biology program. Brazil.
10. Postdoc Achievement Award Excellence in Mentoring. (2020). Cornell University, USA.
9. Travel Award (2019). Annual Evolution Meeting, Providence, USA (\$500).
8. Research Fellowship (2017). Fundação Unesp, Brazil (\$10,000).
7. International Research Fellowship (2015). CAPES, Brazil to Field Museum, USA (\$95,000).

6. Ph.D. Research Fellowship (2013 - 2017). CAPES, Brazil (\$105,600).
5. Travel Award (2011). Unesp, Brazil (\$1,000).
4. M.Sc. Research Fellowship (2011 - 2013). CAPES, Brazil (\$33,000).
3. Travel Award (2009). International Myrmecological meeting, Brazil (\$500).
2. Undergraduate Research Grant (2008 - 2010). CNPq, Brazil (\$7,200).
1. Travel Award (2007). International Society of Arachnology, Brazil (\$500).

PROFESSIONAL DEVELOPMENT AND FIELD EXPERIENCE

21. 33rd CALS Teaching Experience Workshop. Cornell University, USA. 2022.
20. Teaching & Learning in the Diverse Classroom. Cornell University, USA. 2021.
19. Postdoc Leadership Program. Cornell University, USA. 2021.
18. Strategies and Techniques for Analyzing Microbial Community Population Structures – STAMPS. Marine Biological Laboratory, University Chicago, USA. 2019.
17. Workshop Introduction to BioHPC - Bioinformatics. Cornell University, USA. 2019.
16. Workshop Intermediate Statistical Analysis Using R. Cornell University, USA. 2019.
15. Workshop Introductory Statistics Using R. Cornell University, USA. 2019.
14. Workshop Bayesian Phylogenetics in RevBayes. Field Museum Chicago, USA. 2018.
13. Continuing education in Ants: collection, identification, and collection. UNESP, Brazil. 2016.
12. Computational Biology at the Field Museum Workshop. Field Museum Chicago, USA. 2015.
11. Visiting PhD student at Field Museum. Field Museum Chicago, USA. 2015.
10. Ant Course. California Academy of Sciences, USA. 2015.
9. Field collecting trip Arizona, USA. 2015.
8. Field collecting trip Florida Keys, USA. 2015.
7. Molecular Biology: New Approaches to Management. UNESP, Brazil. 2011.
6. Continuing education in Scanning Electron Microscopy. UNESP, Brazil. 2009.
5. Bioacoustics of Ponerinae. UFOP, Brazil. 2009.
4. Biology Molecular citriculture. UNICAMP, Brazil. 2008.
3. Museum FEENA. UNESP, Brazil. 2008.
2. Social Insects. UNESP, Brazil. 2008.
1. Cytogenetics of Vertebrates. UNESP, Brazil. 2006.

TEACHING EXPERIENCE

Instructor

- Molecular Biology Techniques (BIO 333)**, West Chester University, USA. 2023 (next spring). *1 semester*
- General Biology I (BIO 110)**, West Chester University, USA. 2023 (next spring). *2 semesters.*
- Organic Evolution (BIO 412)**, West Chester University, USA. 2023 (next spring). *1 semester.*
- Topics and Research Methods in Cellular, Microbial, and Molecular Biology (BIO 520, Graduate)**, West Chester University, USA. 2022. *1 semester*
- Capstone: Seminar in Biology (BIO 490)**, West Chester University, USA. 2022. *1 semester*
- General Biology I (BIO 110)**, West Chester University, USA. 2022. *2 semesters.*

Teaching assistant

- Developmental Biology**, UNESP, Brazil. 2007 – 2017. *10 semesters*
- Cell Biology**, UNESP, Brazil. 2009 – 2010. *2 semesters*
- Biology of Aging** UNESP, Brazil. 2009. *1 semester*
- Histology** UNESP, Brazil. 2009 – 2010. *4 semesters*
- Invertebrate Zoology**, UNESP, Brazil. 2007 – 2008. *4 semesters*

Guest Lectures and Workshops

12. Cornell University, USA. 2022. **Guest lecture.**
11. McGill University, Canada. 2021. **Guest lecture.**

10. Universidade Estadual Norte do Paraná, Brazil. 2021. **Guest lecture.**
9. Graduate program of Universidade Federal de Roraima, Brazil. 2020. **Guest lecture.**
8. Undergraduate program of Universidade Federal de Roraima, Brazil. 2020. **Guest lecture.**
7. EEB Graduate program Cornell University, USA. 2020. **Guest lecture.**
6. UNESP, Brazil. 2017. Bioinformatics Workshop.
5. UNESP, Brazil. 2016. Molecular Biology of Social Insects Workshop.
4. UNESP, Brazil. 2016. Molecular and Structural Biology Workshop.
3. UNESP, Brazil. 2013. Biotechnology assisting in the studies of endosymbionts Workshop.
2. II BioCelMol, Brazil. 2013. Molecular Biology: host-microbe interaction Workshop.
1. UNESP, Brazil. 2012. Genomic Workshop.

THESIS COMMITTEE MEMBER

14. Maryna Pinheiro (Universidade Federal do Delta do Parnaíba). Undergraduate Honor Thesis, Brazil. 2022.
13. Isabela Cristina de Oliveira Pimenta (UFU). Master graduate student, Brazil. 2022
12. José Pezotti (USP). Master graduate student, Brazil. 2022
11. Jani Pereira (UNESP). Ph.D. graduate student, Brazil. 2022.
10. Patricia Azevedo (UNICAMP). Ph.D. graduate student, Brazil. 2021.
9. Ygor Victor Ferreira Pinheiro (Universidade Federal do Delta do Parnaíba). Undergraduate Honor Thesis, Brazil. 2021.
8. Cathy Yuen (McGill University). Master graduate student, Canada. 2020.
7. Debora Yumi Kayano (Universidade Mogi das Cruzes). Master graduate student, Brazil. 2020.
6. Pamela Décio Horst (UNESP). Ph.D. graduate student, Brazil. 2018.
5. Rafael S. de Borba. (UNESP) Ph.D. graduate student, Brazil. 2018.
4. Mariani Cristina Alves Piccoli (UNESP). Master graduate student, Brazil. 2017.
3. Júlia Castro (UNESP). Undergraduate Honor Thesis, Brazil. 2017.
2. Maryani Bidoli. (UNESP). Undergraduate Honor Thesis, Brazil. 2017.
1. Leonardo Henrique Gomes. (UNESP). Undergraduate Honor Thesis, Brazil. 2017.

MENTORING ACTIVITIES

Graduate students

5. Devin Bradley. MSc, West Chester University, USA. 2022 – current.
4. Sabrina Meireles. Ph.D., INPA, Brazil. 2022 – current. (*Co-advisor with Miriam Silva Rafael*).
3. Patricia Azevedo. Ph.D., Unicamp, Brazil. 2021 – current. (*Co-advisor with Maria Imaculada Zucchi*).
2. Cathy Yuen. MSc, McGill University, Canada. 2020- 2021 (*Co-advisor with Jessica Gillung*).
1. Juliana Alves. MSc, Federal University of Mogi das Cruzes (UFMC), Brazil. 2018 – 2021 (*Co-advisor with Maria Santana Castro Morini*).

Undergraduate students

** *Co-advisor with Corrie S. Moreau*, **Co-advisor with Odair Correa Bueno*.

19. Tamana Ahmadi**. Research Internship, Cornell University, USA. 2021 –2022.
18. Sam Cavanagh**. Research Internship, Cornell University, USA. 2021 –current.
17. Corey Reese**. Research Internship, Cornell University, USA. 2021- current.
16. Jenna Webb**. Research Internship and BSc Honors Thesis, USA. 2020 – 2022.
15. Zoe Kim**. Research Internship and BSc Honors Thesis, Cornell University, USA. 2019- 2021.
14. Rashida Mohamed-Hinds**. Research Internship, Cornell University, USA. 2019.
13. Steven Wang**. Research Internship and BSc Honors Thesis, Cornell University, USA. 2019-2022.
12. Cristina Gomez**. Research Internship, Cornell University, REU Intern from Colombia (CienciAmerica program), USA. 2019.
11. Vanessa Viveros**. Research Internship, Cornell University, REU Intern, USA. 2019.
10. Manuela Leal Calmanovici*. Research Internship, UNESP, Brazil. 2017 – Current.
9. Gabriel Amaral*. Research Internship, UNESP, Brazil. 2016 – 2018.
8. Madeline Kelly**. Research Internship, Field Museum Chicago, REU Intern, USA. 2018.

7. Thays Neigri Silva*. Research Internship and BSc Honors Thesis, UNESP, Brazil. 2016 – 2018.
6. Vitor Leonardo Souza Hirsch*. Research Internship, UNESP, Brazil. 2016.
5. João Rafael Gonçalves*. Research Internship, UNESP, Brazil. 2016.
4. Thais Marchesin*. Research Internship and BSc Honors Thesis, Centro Universitário Herminio Ometto de Araras, Brazil. 2015.
3. Marcella Giroto Bastos*. Research Internship and BSc Honors Thesis, UNESP, Brazil. 2015.
2. Matt Boot**. Research Internship, Field Museum Chicago, USA. 2015.
1. Estefany Romero**. Research Internship, Field Museum Chicago, Women in Science Internship, REU Intern, USA. 2015.

High School students

4. Bianca Oliveira. Research Internship, Public School EE Marciano Toledo Pizza, 2017.
3. Leticia Souza. Research Internship, Public School EE Marciano Toledo Pizza, 2017.
2. Israel Santos. Research Internship, Public School EE João Batista Leme. 2017.
1. Melissa Carvalho. Research Internship, Public School EE Marciano Toledo Pizza, 2016.

LEADERSHIP

10. Elected Leader of the Graduate Students of Cell and Molecular Biology Program, UNESP, Brazil. 2014 – 2017 (*3 times*).
9. Elected Leader of the Students of Study Center of Social Insects, UNESP, Brazil. 2011- 2014 (*3 times*).
8. Organizer of Firsts Steps in Science. 2017. *Founder of the Project*.
7. Organizer of V Symposium on Cell and Molecular Biology. 2017.
6. Organizer of Workshop: Ants do not have nationality: sharing knowledge. 2017.
5. Organizer of Firsts Steps in Science. 2017. *Founder of the Project*.
4. Organizer of Extension Course GAP Junction: Undergraduate to graduate. 2016. *Founder of the Project*.
3. Organizer of IV Symposium on Cell and Molecular Biology. 2015.
2. Organizer of III Symposium on Cell and Molecular Biology. 2013.
1. Organizer of II Symposium on Cell and Molecular Biology. 2012.

ACADEMIC SERVICE

- Committee member of DEI, Department of Biology, West Chester University, USA. 2022 – current.
- Committee member for NSF (Projects Competition). USA. 2022.
- Committee member for Undergraduate Researcher fellowship, REU- CIHMID (4 Projects). Cornell University, USA. 2022.
- Scientific Committee member (10 Abstracts). In IUSSI. 2021.
- Invited moderator on Inclusion, biodiversity and equity. Symposium. First Ibero-American Symposium on Myrmecology (live panel). 2020.
- Committee member for National Fund for Scientific and Technological Development (FONDECYT) (main funding agency of the Government of Chile). Regular Fondecyt National Projects Competition. 2021.
- Committee member for Undergraduate Researcher fellowship. UFRR, Brazil. 2020.
- Committee member for poster presentation (25 posters). In XXIV Myrmecology Symposium: An International Ant Meeting, Brazil. 2019.

Editorial Board – Editorial Boards:

- Subject Editor of Myrmecological News.
- Subject Editor of Insects Journal (MDPI).
- Subject Editor of Animal Gene.

Peer-reviews for scientific journals Journal:

- Insects, Diversity, Proceedings of the Royal Society B: Biological Sciences, Peerj, Microbial Ecology, Plos-ONE, Biology Letters, Myrmecological News, Molecular Phylogenetics and Evolution, Molecular Ecology, Scientific Reports, Basic and Applied Ecology, Philippine Journal of

Science, Sociobiology, Frontiers Microbiology, Current Microbiology, Journal of Animal Ecology, Advances in Entomology, Journal of Hymenoptera, Journal of Asia-Pacific Entomology, Revista De Ciências Ambientais (Unilasalle), Environmental Science: An Indian Journal, BMC Microbiology, BMC Ecology, International Journal of Computational Intelligence in Bioinformatics, Approaches in Poultry, Dairy & Veterinary Sciences, Environmental Entomology, Journal of Hymenoptera Research

PROFESSIONAL SOCIETY AFFILIATIONS

Entomological Society of America (ESA), Society for the Study of Evolution (SSE) and Society for Integrative and Comparative Biology (SICB).

OUTREACH AND SCIENCE COMMUNICATION

39. **Founder of “Women Deciphering Science”, a coalition for science communication with more than 2.5 K followers on social media** (Both English and Portuguese on Facebook, Instagram and Twitter). 2020 –present.
38. Super Science Saturday, 2022.
37. **Podcast interview for Atiçando o formigueiro.** 2022.
36. **Live panel interview Story Collider show and podcast.** 2021. <https://www.youtube.com/watch?v=Do119VWAKEk>
35. **Live panel interview for @ensina.biotec (Instagram).** 2021.
34. **Podcast interview for BugBite.** 2021.
33. **Interview for Myrmecological News Blog.** 2021. <https://blog.myrmecologicalnews.org/2021/02/18/meet-new-subject-editors-of-myrmecological-news/>
32. **Podcast interview for Ciência, pra quem?** 2021. <https://anchor.fm/yasmim-mossioli/episodes/Cincia-e-Maternidade-es5n48/a-a4t4bsn>
31. **Podcast interview for Finding Genius.** 2021. <https://www.youtube.com/watch?v=axv5wSOsDH8>
30. **Rio Claro Facebook group interview (live panel).** 2021. https://www.facebook.com/watch/livepanel/?v=109542604390037&ref=watch_permalink
29. **Postdoc Spotlight: Manuela Ramalho Interview.** Recipient of Postdoc Achievement Award for Excellence in Mentoring, Cornell University, USA. 2020. <https://gradschool.cornell.edu/spotlights/postdoc-spotlight-manuela-ramalho/>
28. **Interview for Myrmecological news Blog.** 2020. <https://blog.myrmecologicalnews.org/2020/09/02/women-in-science-parents-in-science-minorities-in-science-so-what/>
27. **Podcast interview for BugBites.** 2020. <https://podcastaddict.com/episode/117191230>
26. **Podcast interview for BugBites.** 2020. <https://podcastaddict.com/episode/114534447>
25. **Interview (live panel) with CaBio** at the Federal University of Roraima. 2020. <https://www.instagram.com/tv/CEsQ28zl0Bk/?igshid=7hxlzbhpf250>
24. **First Ibero-American Symposium on Myrmecology (live panel).** 2020.
23. **I Ciclo Mirmecológico Universidade Federal da Paraíba (live panel).** 2020. <https://www.youtube.com/watch?v=CaY2R9u17eQ>
22. **Pint of Science (live panel).** 2020. <https://www.youtube.com/watch?v=C8hVVeca0L4>
21. **Field Museum Chicago (live panel).** 2020.
20. **A Ciencia que nós fazemos, Science communication media interview** (more than 70K followers). 2020. <https://www.cienciaquenosfazemos.org/post/voc%C3%AA-n%C3%A3o-%C3%A9-aquilo-que-voc%C3%AA-comes>
19. **Podcast interview for The Daily Ant.** 2020. [Link Here](#)
18. **Insectapalooza.** Cornell University. 2019.
17. **Microbiome Hack mentor.** Cornell University. 2019.
16. **Public Elementary School Zuchim Interview.** 2019.
15. **Podcast interview for BugBites.** 2018. https://www.youtube.com/watch?v=j_kkwln8qKU
14. **Meet a Scientist – DNA Lab public events** (2 times), Field Museum Chicago. 2018.
13. **Meet a Scientist - Importance of Ants public events** (2 times), Field Museum Chicago. 2018.

12. **The Ants Society. Science communication.** 2017. https://youtu.be/xLth7FT_CSs
11. **First Steps in Science 2017**, UNESP. 2017.
10. **Course GAP Junction: Undergraduate to graduate**, UNESP. 2017.
9. **The Ants Society: An incredible universe just steps from you! Science communication.** 2016. <https://youtu.be/4qXqbDuLeD8>
8. **First Steps in Science 2016**, UNESP. 2016.
7. **Meet a Scientist public events** (5 times), Field Museum Chicago. 2015-2018.
6. **Member's Night public events** (2 times), Field Museum Chicago. 2015.
5. **Solorio Academy High School, insect collections tour**, Field Museum Chicago. 2015.
4. **Women in Science Field Museum. Science communication.** 2015.
<https://youtu.be/VRksGAWC3no>
3. **Ant Course Presents: Why Does Ant Diversity Matter? Science communication.** 2015.
<https://youtu.be/lgtZU5xraoI>
2. **Visiting the Ant Lab at the Chicago Field Museum. Science communication.** 2015.
<https://www.youtube.com/watch?v=JCIg3EwpU5w&t=334s>
1. **Importance of Insects - Especially Ants, insect tour** (25 times), UNESP. 2007- 2017.

Film Consultant

1. Film Consulting 'Meninas Formicida'. 2017.

LANGUAGE SKILLS

English (fluent), Portuguese (native), Spanish (advanced)

CONTACT INFORMATION FOR REFEREES

Referees

Postdoctoral Advisor

Corrie S. Moreau, Ph.D.

Senior Associate Dean of Diversity and Inclusion, Martha N. and John C. Moser Professor of Arthropod Biosystematics and Biodiversity

Director & Curator of the Cornell University Insect Collection

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Ithaca, NY, 14853

USA

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Collaborator/Mentor

Jessica P. Gillung, Ph.D.

Assistant Professor

Director & Curator of the Lyman Entomological Museum

McGill University

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Doctoral Advisor

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