

Genetics and Evolution
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Natalia de Souza Araujo

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My major interests are in the field of evolutionary biology. Recently I have been focused in the study of the evolution of social behaviour in Hymenoptera and the genetics mechanism beneath sociality.

EDUCATION

- 2012 – current** *Ph.D. in Genetics and Evolutionary Biology - University of São Paulo*
Expression of Genes Involved in Social Behavior in Bees with Different Levels of Eusociality. Advisor: Maria Cristina Arias
- 2010 – 2012** *M.Sc. in Genetics and Evolutionary Biology - University of São Paulo*
Analyses of the *Anastrepha fraterculus* complex (Diptera: Tephritidae) in Brazil based on mitochondrial cytochrome oxidase I sequences Advisor: Andre Luiz Paranhos Perondini
- 2006 – 2010** *B.Sc. in Biological Science - Universidade Paulista*
- 2004 – 2007** *Technician in Chemistry - Escola Técnica Estadual Getúlio Vargas*

LANGUAGE SKILLS

Portuguese (native); English (IELTS 7.0); Spanish (basic)

AWARDS and FUNDINGS

- 2013 – 2017** FAPESP – Regular Ph.D. Fellowship
- 2016** Brazilian Congress of Genetics – Honourable mention for Participation in Graduate Oral Award of Evolution
- 2014 – 2015** FAPESP – BEPE Ph.D. Fellowship Abroad
- 2014** IUSSI 2014 – 3rd Place for Best Student Poster
- 2011** 57 Brazilian Congress of Genetics – Honourable mention for Participation in Graduate Oral Award of Animal Genetics
- 2010 – 2012** CNPQ – Regular M.Sc. Fellowship
- 2009** Instituto Biológico – Scientific Merit for Oral Presentation
- 2009 – 2010** CNPQ/ UNIP – PIBIC Fellowship for undergraduate students
- 2008 – 2009** CNPQ/ UNIP – PIBIC Fellowship for undergraduate students
- 2006 – 2010** PROUNI – Scholarship for graduating costs

RESEARCH EXPERIENCE

- 2012-current** Laboratory of Genetics and Evolution of Bees, University of São Paulo (research advisor: Dr. Maria Cristina Arias)
- 2014-2015** Bioinformatics internship at Ants, evolution & genomics lab, Queen Mary University of London (research advisor: Dr. Yannick Wurm)
- 2010-2012** Laboratory of Evolution and Genetics of True Fruit Flies, University of São Paulo (research advisor: Dr. Andre Luiz Paranhos Perondini)
- 2008-2010** Laboratory of Evolution and Histophysiology, University of São Paulo (research advisor: Dr. João Carlos Shimada Borges - UNIP)

TEACHING EXPERIENCES

- 2016** Teaching assistant in the undergraduate course of Biological Diversity and Phylogeny at University of São Paulo
- 2010** English teacher at SKILL idiomas
- 2009** Educational assistant at Dinosfera - Aventura Paleontológica
- 2009** Educational assistant at the Insect Planet exposition - Instituto Biológico
- 2011** Teaching assistant in the undergraduate course of Genetics at University of São Paulo
- 2008/2009** Teaching assistant in the undergraduate courses of Geology/ Palaeontology and Genetics/Citogenetics

ADVISING

- 2015 – current** Piconi, Larissa Logullo. Gene Expression Analyses in Bee Social Behaviour Candidate Genes. Undergraduate Research.

PUBLICATIONS and PRESENTATIONS

- Araujo, N.S.;** Zuntini A.R.; Arias M.C. (2016) Getting Useful Information from RNA-Seq Contaminants: A Case of Study in the Oil-Collecting Bee *Tetrapedia diversipes* Transcriptome. OMICS: A Journal of Integrative Biology. 20(8), 491-192.
- Arias, M.C. **et al.** (2016) Microsatellite records for volume 8, issue 1. Conservation Genetics Resources. 1(8), 43-81.
- Araujo, N.S.** and Borges J.C.S. (2015) Rodlet cells changes in *Oreochromis niloticus* in response to organophosphate pesticide and their relevance as stress biomarker in teleost fishes. International Journal of Aquatic Biology. 3(6), 398-408.
- Araujo, N.S.** and Arias, M. C. (2015) Gene expression analyses of bivoltine behavior in the solitary bee *Tetrapedia diversipes* and its implication in eusociality. Evolution 2015 – Oral and Poster Presentation.
- Araujo, N.S.;** Wurm Y.; Arias M.C. (2014) Highly Eusocial and Solitary Bees: what about their gene expression? NW European IUSSI Winter Meeting – Oral Presentation
- Araujo, N.S.** and Arias M.C. (2014) Transcriptome assembly for non-model Apinae bees: reference or de novo approach? IUSSI – Published abstract; Poster Presentation
- Araujo, N.S.;** Perondini A.L.P.; Selivon D. (2012) Limitações do Uso de DNA mitocondrial em Estudos Filogenéticos de Moscas-das-frutas. – Oral Presentation at University Paulista
- Araujo, N.S.;** (2012) Analyses of the *Anastrepha fraterculus* complex (Diptera: Tephritidae) in Brazil based on mitochondrial cytochrome oxidase I sequences. [dissertation] São Paulo: University of São Paulo, Instituto de Biociências