

Genetics and Evolution
University of São Paulo
Rua do Matão, 277
Sao Paulo – SP 05422-970

Natalia de Souza Araujo

souza.nataliaa@gmail
@nat2bee
<http://natevolution.com>

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 Behaviour 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)

RESEARCH EXPERIENCE

- 2012-current** Laboratory of Genetics and Evolution of Bees, University of São Paulo (research advisor: Dr. Maria Cristina Arias)
- 2014-2015** Laboratory of Ants, evolution & genomics, 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** Larissa Logullo Piconi. Gene Expression Analyses in Bee Social Behaviour Candidate Genes. Undergraduate Research.

FUNDINGS

2013-2017 FAPESP – Regular Ph.D. Fellowship
2014-2015 FAPESP – BEPE Ph.D. Fellowship Abroad
2010-2012 CNPQ – Regular M.Sc. Fellowship
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

AWARDS

2016 ICE – 2nd Place for Best Student Poster. Session: Genetics and Evolutionary Entomology
2016 Brazilian Congress of Genetics – Honourable Mention for Participation in the Francisco Mauro Salzano Graduate Student Award of Evolution
2014 IUSSI – 3rd Place for Best Student Poster
2011 57^o Brazilian Congress of Genetics – Honourable Mention for Participation in the Graduate Student Oral Award of Animal Genetics
2009 Instituto Biológico – Scientific Merit for Oral Presentation

PUBLICATIONS and PRESENTATIONS

Araujo, N.S.; Wurm Y.; Arias M.C. (2016) Worker Subcastes: What makes bees nurses? IUSSI-NAS Colloquium – Oral Presentation.

Araujo, N.S. and Arias M.C. (2016) Evolution of GC Content in Genes Involved In Eusociality. Brazilian-International Congress of Genetics – Oral and Poster Presentation.

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.; (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