Genetics and Evolution
University of São Paulo
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Natalia de Souza Araujo

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My major interests are in the field of molecular evolutionary biology and bioinformatics. 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 and PROGRAMMING SKILLS

- Portuguese (native); English (IELTS 7.0); Spanish (basic); French (basic)
- Python; R and Unix Environment

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 discipline of Biological Diversity and Phylogeny at University of São Paulo

2011 Teaching assistant in the discipline of Genetics 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

2008-2009 Teaching assistant in the discipline 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
2008-2010 CNPQ/ UNIP – PIBIC Fellowship for undergraduate students
2006-2010 PROUNI – Scholarship for graduation 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 57º 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 Eussociality. 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