Phd, Post doctoral
Bioinformatics - Evolutionary Biology & Ecology
University of Brussels

Natalia de Souza Araujo

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My main interests rely on combining molecular biology and data analyses to answer evolutionary questions. Recent research projects include: molecular mechanisms of heat adaptation in ants; gene conversion events in complete genomes of bovines cohorts; genetics mechanism involved in the evolution of social behaviour; and identification of genes involved in bee parasitic interactions.

EDUCATION

2012-2017 *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 (intermediary)
- Python; R and Unix Environment

RESEARCH EXPERIENCE

2019-current Bioinformatics // Evolutionary Biology & Ecology - ULB, University of Brussels (research supervisors: Dr. Serge Aron and Dr. Matthiew Defrance)

2017-2019 Unit of Animal Genomics - GIGA, University of Liège (research supervisors: Dr. Michel Georges and Dr. Carole Charlier)

2012-2017 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)

ADVISING

2018-current Paulo Cseri Ricardo Expression of Genes Related to Parasitic Behaviour in Bees. *Co-advisor in PhD Research*

2015-2018 Larissa Logullo Piconi Gene Expression Analyses of Behavioural Candidate Genes in Native Bees. *Co-advisor in undergraduate Research*

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

FUNDINGS

2019 PACBIO, SMRT Leiden – Travel Grant [International]

2016 Society for the Study of Evolution – Travel Grant [International]

2013-2017 FAPESP – Regular Ph.D. Fellowship [National]

2014-2015 FAPESP – BEPE Ph.D. Fellowship Abroad [National]

2010-2012 CNPQ – Regular M.Sc. Fellowship [National]

2008-2010 CNPQ/ UNIP – PIBIC Fellowship for undergraduate students [National]

2006-2010 PROUNI – Scholarship for graduation costs [National]

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

SELECTED PUBLICATIONS

Araujo, N.S. and Arias M.C. (2019) Mitochondrial genome characterization of *Melipona bicolor*: Insights from the control region and gene expression data. Gene.

Santos, P.K.F; **Araujo, N.S.;** Françoso, E.; Zuntini, A.R.; Arias, M.C. (2018) Diapause in a tropical oil-collecting bee: molecular basis unveiled by RNA-Seq. BMC Genomics.

Araujo, N.S.; Santos P.K.F.; Arias M.C. (2018) RNA-Seq reveals that mitochondrial genes and long noncoding RNAs may play important roles in the bivoltine generations of the non-social Neotropical bee *Tetrapedia diversipes*. Apidologie.

Araujo, N.S.; (2017) Expression of genes involved in the social behaviour of bees with different levels of eusociality. [PhD thesis]. São Paulo: University of São Paulo, Instituto de Biociências

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.