

CURRICULUM VITAE

Claudinéia Pereira Costa, Biologist, PhD

Bachelor of Science in Biology (2010). Master's Degree in Entomology at University of São Paulo (2012). PhD in Genetics at University of São Paulo (2017). Has experience in Developmental Biology, Ecology, Molecular Biology, and Population Genetics.

Personal Details

Name: Claudinéia Pereira COSTA

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Foz do Iguaçu/PR – Brazil

Curriculum Lattes:

Nationality: Brazilian

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Research Gate:

[https://www.researchgate.net/profile/Claudin
eia_Costa](https://www.researchgate.net/profile/Claudin%C3%A9ia_Costa)

Formal Education/Degree

Post-doctoral (2018-currently).

University of California, Riverside, USA.

Title: Bumblebee larvae development

Advisor: Dr. S. Hollis Woodard, PhD.

PhD in Genetic (2012-2017).

University of São Paulo, Ribeirão Preto Medical School, Ribeirão Preto, Brazil.

Title: Population dynamics of orchid bees (Apidae, Euglossini) in different phytophysiognomies of the State of São Paulo.

Advisor: Dr. Tiago Mauricio Francoy, PhD.

PhD exchange (2016).

York University, Faculty of Science, Toronto, Canada.

Title: Altitudinal and geographic effects on the genetic variability of populations of *Euglossa cordata* (Apidae, Euglossini) in the northeastern state of São Paulo.

Advisor: Dr. Amro Zayed, PhD.

Master's Degree in Entomology (2010-2012).

University of São Paulo, USP, Ribeirão Preto, Brazil.

Title: Bursicon and its role in the context of metamorphosis in *Apis mellifera*.

Advisor: Dr. Márcia Maria Gentile Bitondi, PhD.

Bachelor in Science – Biology (2006-2011).

University of São Paulo, USP, Ribeirão Preto, Brazil.

Title: Characterization of genes encoding Bursicon and their role in the regulation of exoskeleton differentiation in honey bee, *Apis mellifera* (Hymenoptera, Apinae).

Advisor: Dr. Márcia Maria Gentile Bitondi, PhD.

Major in Science – Biology (2006-2010).

University of São Paulo, USP, Ribeirão Preto, Brazil.

Service

2018

Laboratory Assistant, Molecular Biology, University of São Paulo

Execution of experiments in the molecular biology laboratory, focusing differential expression in the context of the molecular phylogeny of Crustacean.

Supervision: Dr. Fernando Luis Medina Mantelatto, PhD.

Publications and Manuscripts in Preparation

GRASSI-SELLA, M.L.; **COSTA, C.P.**; GAROFALO, C. A; MORITZ, R.F.A.; FRANCOY, T.M. Genetic diversity within the *Euglossa pleosticta* (Euglossini, Hymenoptera, Apidae) using multiple methodologies. (*In prep*).

COSTA, C.P.; HARPUR, B.A.; ZAYED; A.; FRANCOY, T.M. The genetic structure of populations of *Euglossa cordata* (Euglossini, Hymenoptera, Apidae) in distinct physiognomies in the state of São Paulo. (*In prep*).

COSTA, C.P.; MACHADO, C.A.S.; FRANCOY, T.M. Population structure of *Eulaema nigrita* (Euglossini) in different landscapes suggested by genetic variability and geometric morphometrics of forewings. (*In prep*)

COSTA, C.P.; FRANCOY, T.M. Development and use of molecular markers in orchid bees (Hymenoptera: Apidae: Euglossini): past and present. (*submitted*)

PINHAL, P.D.G.*; **COSTA, C.P.***; FRANCOY, T.M. Relationship between the venation patterns of the anterior wings and the phylogeny of corbiculate bees through morphometric data. (*submitted*) *co-first author

MORETTI, C.J.; **COSTA, C.P.**; FRANCOY, T.M. 2018. Wing morphometrics reveals the migration patterns of Africanized honey bees in Northeast Brazil. *Sociobiology*.

MACHADO, C.A.S.*; **COSTA, C.P.***; FRANCOY, T.M. 2018. Different physiognomies and their relationship with the structure of Euglossini bee (Hymenoptera: Apidae) communities. *Sociobiology*. *co-first author.

COSTA, C.P.; FRANCOY, T.M. 2017. The impact of different phytophysiognomies on the composition of Orchid Bee communities (Hymenoptera: Apidae: Euglossini) in the Atlantic Forest in Brazil. *Annals of the Entomological Society of America*. 110(3): 255–262.

COSTA, C.P.; ELIAS-NETO, M.; FALCON, T.; DALLACQUA, R.P.; MARTINS, J.R.; BITONDI, M.M.G. 2016. RNAi-mediated functional analysis of Bursicon genes related to adult cuticle formation and tanning in the Honeybee, *Apis mellifera*. *Plos One* 11 (e0167421).

Scientific Production

- 10 Summaries published in proceedings of conferences (7 as first author)
- 11 Presentations of Work
- 27 Participation in events (congress, symposium, meeting, others)
- 5 Event Production
- 4 Short Term Course Taught

Special Skills

Languages	Portuguese (native), English (fluent)
Ecology	Insect collecting, bee identification, data analysis with R
Morphometric	Geometric morphometrics of wings, data analysis with MorpjoJ.
Molecular Biology	DNA and RNA extraction, Reverse transcription PCR (RT-PCR), Real Time PCR, RNA interference (RNAi), Fluorescence in situ hybridization (FISH), primer design, tag/barcode creation, Sanger Sequencing, Microsatellites, Mitochondrial DNA, Library preparation for Illumina sequencing, bioinformatics methods for data Illumina, data analysis in several programs genetic population.
Computing	Python, PERL, R and Unix Environment.

FUNDINGS

2018	CNPq – Technician fellowship – Laboratory Assistant
2013 – 2017	FAPESP – Regular Ph.D. Fellowship
2016	FAPESP – BEPE Ph.D. Fellowship Abroad
2013	CAPES – Regular Ph.D. Fellowship

2012	PRO-REITORIA/USP/PAE – Teaching Improvement Program – Fellowship for graduate students
2010-2012	CNPq – Regular M.Sc. Fellowship
2010	FAPESP – Regular Fellowship for undergraduate students
2008-2010	CNPq/ USP – PIBIC Fellowship for undergraduate students

Additional Information: Research Support and/or Scholastic Performance

2018	XVI Course of Bioinformatics – Identification, annotation and expression analysis of transcripts using RNA-Seq UNICAMP – University of Campinas – LaCTAD (Workload: 30h).
2016-2017	Introduction Course to the Use of Software R and its applications Statistics in Conservation Biology. Escola Superior de Conservação Ambiental e Sustentabilidade, ESCAS, Brazil (Workload: 80h).
2016	Introduction Course in Python applied to Bioinformatics. University of São Paulo, USP, Ribeirão Preto, Brazil (Workload: 13h).
2015	Course in Bioinformatics Tripartite University of São Paulo, USP, Ribeirão Preto, Brazil (Workload: 80h).
2015	1 st Course in Biostatistics. University of São Paulo, USP, Ribeirão Preto, Brazil (Workload: 40h).
2014	Programming for Evolutionary Biology. Universidad Nacional de Colombia – UNAL, Bogotá, Colombia (Workload: 128h).
2014	Field internship supervised by Prof. Dr. David Roubik Panama City – Panama. March 2014.

References

S Hollis Woodard (PhD)

Address: Department of Entomology

University of California, Riverside, USA

Email: hollisw@ucr.edu

Amro Zayed (PhD)

Address: Department of Biology
York University, Canada

Email: zayed@yorku.ca

Márcia M. Gentile Bitondi (PhD)

Address: Department of Biology
Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto
University de São Paulo, Brazil

Email: mmgbit@usp.br

Tiago Mauricio Franco (PhD)

Address: Escola de Artes, Ciências e Humanidades
University de São Paulo, Brazil

Email: tfrancoy@usp.br