

Deise Josely Pereira Gonçalves

www.deisegoncalves.com | deisejpg@gmail.com | (512) 669-1318
Department of Integrative Biology, The University of Texas at Austin

EDUCATION

Ph.D. candidate, Plant Biology, The University of Texas at Austin, US, 2013 – ongoing (expected completion September 2019)
M.Sc., Plant Biology, University of Campinas – Unicamp, Brazil, 2011 – 2013
B.S., Biology, Federal University of Uberlândia – UFU, Brazil, 2005 – 2010
Teaching License in Biology, Federal University of Uberlândia – UFU, Brazil, 2005 – 2009

PUBLICATIONS

ARTICLES PUBLISHED IN PEER-REVIEWED JOURNALS

- Gonçalves, DJP**, Shimizu, GH, Ortiz, EMV, Simpson, BB, Jansen, RK. 2019. Incongruence between species tree and gene trees and phylogenetic signal variation in plastid genes. *Molecular Phylogenetics and Evolution*. Selected as Editor's Choice paper.
<https://doi.org/10.1016/j.ympev.2019.05.022>
- Gonçalves, DJP**, Versiane, AF. 2019. The complete plastome sequence of *Microlicia cogniauxiana* R. Romero (Melastomataceae). *Mitochondrial DNA Part B*. 4(1): 1957-1958.
<https://doi.org/10.1080/23802359.2019.1617058>
- Brazilian Flora Group; **Gonçalves, DJP**. 2018. Brazilian Flora 2020: Innovation and collaboration to meet Target 1 of the Global Strategy for Plant Conservation (GSPC). *Rodriguésia*. 64(9): 1513-1527.
<http://dx.doi.org/10.1590/2175-7860201869402>
- Shimizu, GH; **Gonçalves, DJP**. 2017. Flora of the cangas of Serra dos Carajás, Pará, Brazil: Vochysiaceae. *Rodriguésia*. 68(3):1159-1164.
<http://dx.doi.org/10.1590/2175-7860201768351>
- Gonçalves, DJP**, Shimizu, GH, Yamamoto, K, Semir, J. 2017. Vochysiaceae from the Diamantina Plateau region, Minas Gerais, Brazil. *Rodriguésia*. 68(1):159-193.
<http://dx.doi.org/10.1590/2175-7860201768124>
- Shimizu, GH; **Gonçalves, DJP**, França, F, Simões, AO, Yamamoto, K. 2016. A remarkable new species of *Qualea* (Vochysiaceae) from Piauí state, Brazil. *Phytotaxa*. 273: 262-268.
<http://dx.doi.org/10.11646/phytotaxa.273.4.2>
- Shimizu, GH, **Gonçalves, DJP**, Litt, A, Simões, AO, Yamamoto, K. 2016. The correct assignment of *Vochysia guianensis* (Vochysiaceae) lectotype. *Phytotaxa*. 260(2): 199-200.
<http://dx.doi.org/10.11646/phytotaxa.260.2.10>
- Gonçalves, DJP**, Yamamoto, K, Romero, R. 2013. Vochysiaceae from Serra da Canastra National Park, Minas Gerais, Brazil. *Rodriguésia*. 64(4): 863-875.
<http://dx.doi.org/10.1590/S2175-78602013000400014>

ARTICLES IN REVIEW OR IN PREPARATION

- Gonçalves, DJP**, Simpson, BB, Shimizu, GH, Jansen, RK, Ortiz, EM. Genome assembly and phylogenomic data analyses using plastid data: contrasting species tree estimation methods. *In review, Data in Brief*

Gonçalves, DJP, Ortiz, EMV, Shimizu, GH, Jansen, RK., Simpson, BB. Vochysiaceae historical biogeography: a different perspective of plant evolution in the Neotropics. *In prep, to be submitted to American Journal of Botany*

Gonçalves, DJP, Ortiz, EMV, Jansen, RK, Simpson, BB. Phylogenomics and Biogeography of *Vochysia*: unravelling its tempo and mode of evolution. *In prep, to be submitted to Journal of Biogeography*

BOOK CHAPTERS

Gonçalves, DJP, Shimizu, G, Moulton, L, Negrão, R, Wimmer, F. Vochysiaceae. *In*: Livro Vermelho da Flora Endêmica do Estado do Rio de Janeiro. Orgs. Gustavo Martinelli...[et al.]. Rio de Janeiro: Jardim Botânico do Rio de Janeiro: SEA – Secretaria de Estado do Ambiente: Andrea Jakobsson Estúdio, 2018. 456 p.

Shimizu, GH, **Gonçalves, DJP**. 2015. Vochysiaceae. *In*: Flora do Sergipe. orgs. Prata, AP, Amaral, MC, Farias, MC, Alves, MV. ed. Criação, Aracaju, Brasil. 291-294.

Shimizu, GH, **Gonçalves, DJP**, Amaro, R, Kustchenko, D, Novaes, L. 2014. Vochysiaceae. *In*: Livro Vermelho da Flora do Brasil - Plantas Raras do Cerrado. Orgs. Martinelly, G, Messina, T, Filho, LS. 1 ed. Instituto de Pesquisas Jardim Botânico do Rio de Janeiro, Brasil, CNCFlores. 220-223.

FIELD GUIDES

Gonçalves, DJP, Semir, J. 2013. Vochysiaceae na região do Planalto de Diamantina. Rapid Color Guides. The Field Museum.

ONLINE RESOURCES

França, F, **Gonçalves, DJP**, Shimizu, GH, Souza, LF (in alphabetical order). Brazilian Flora 2020 in construction. Rio de Janeiro Botanical Garden. Available at: <http://floradobrasil.jbrj.gov.br/>

POSTERS AND ORAL PRESENTATIONS AT CONFERENCES

2018

Gonçalves, DJP, Ortiz, EMV, Simpson, BB, Jansen, RK. Phylogenomics of Myrtales and incongruence between gene trees and species trees. XII Congreso Latinoamericano de Botánica, October 21-28, 2018, Quito, Ecuador. *Oral presentation*

Maurin, O, Bouchenak-Kelladi, Y, Brewer, G, Charles-Dominique, T, Dodsworth, S, Niroshini, E, **Gonçalves, DJP**, Graham, S, Kim, J, Michelangeli, F, Souza, G, Forest, F, Baker, W, Lucas, E. Phylogenomics of Myrtales using an angiosperm-wide targeted enrichment approach: potential for systematic, evolutionary and ecological investigations. XII Congreso Latinoamericano de Botánica, October 21-28, 2018, Quito, Ecuador. *Oral presentation*

Shimizu, GH, **Gonçalves, DJP**, Souza, L, França, F. The family Vochysiaceae in the Flora of Brazil 2020. XII Congreso Latinoamericano de Botánica, October 21-28, 2018, Quito, Ecuador. *Poster*

Gonçalves, DJP, Ortiz, EMV, Simpson, BB, Jansen, RK. Phylogenomics of rosids: incongruence between gene trees and species trees refutes the “single locus” hypothesis of plastid genomes. Evolution, August 19-22, 2018, Montpellier, France. *Poster*

2017

Shimizu, GH, **Gonçalves, DJP**, Litt, A, Yamamoto, K, Simões, A. Molecular phylogenetics and

character evolution in Vochysiaceae. XIX International Botanical Congress, July 23-29, 2017, Shenzhen, China.

Gonçalves, DJP, Ortiz, EMV, Simpson, BB, Jansen, RK. Plastid genome evolution across the rosids. Annual meeting of the Society for Molecular Biology and Evolution, July 2-6, 2017, Austin, Texas, United States.

2016

Shimizu, GH, **Gonçalves, DJP**, Litt, A, Yamamoto, K, Simões, AO. Filogenia Molecular De Vochysiaceae. In: 67º Congresso Nacional De Botânica, 36º ERBOT e 8ª Jornada Capixaba De Botânica, 2016. Vitória, Espírito Santo, Brasil.

Shimizu, GH, **Gonçalves, DJP**, Litt, A, Yamamoto, K, Simões, AO. Flora do Espírito Santo, Brasil: Vochysiaceae. In: 67º Congresso Nacional De Botânica, 36º ERBOT e 8ª Jornada Capixaba De Botânica, 2016. Vitória, Espírito Santo, Brasil.

Gonçalves, DJP, Simpson, BB, Jansen, RK. Comparative analyses of whole plastid genomes from the Myrtales. In: Botany Conference, July 31th – August 3rd, 2016, Savannah, Georgia, United States.

Shimizu, GH, **Gonçalves, DJP**, Litt, A, Simões, AO, Yamamoto, K. A nomenclator for the genus *Vochysia* Aubl. (Vochysiaceae) in Brazil. In: XI Congresso Latinoamericano de Botânica / 65º Congresso Nacional de Botânica, 2014, Salvador. Salvador, Bahia, Brasil.

2013 – 2006

Gonçalves, DJP, Shimizu, GH, Yamamoto, K, Semir, J. Padrões de distribuição geográfica das espécies de Vochysiaceae na Cadeia do Espinhaço, Brasil. In: 64º Congresso Nacional de Botânica, 2013. Belo Horizonte, Minas Gerais, Brasil.

Gonçalves, DJP, Shimizu, GH, Yamamoto, K, Semir, J. Vochysiaceae from Diamantina Plateau, Minas Gerais, Brazil. Botany 2012 Conference, 2012. Columbus, Ohio, United States.

Gonçalves, DJP, Romero, R, Yamamoto, K. Vochysiaceae from Serra da Canastra National Park, Minas Gerais, Brazil. In: 60º Congresso Nacional de Botânica, 32ª Reunião Nordestina de Botânica, 29º ERBOT - Encontro Regional de Botânicos - MG, BA, ES, 2009. Feira de Santana, Bahia, Brasil.

Gonçalves, DJP, Moreira, CS, Costa, JY, Carmo-Oliveira, R. The Botany collection as a resource for teaching. In: 58º Congresso Nacional de Botânica, 2007. São Paulo, São Paulo, Brasil.

Gonçalves, DJP, Arantes, AA. Collection of Medicinal Plants deposited in the Herbarium of the Universidade Federal de Uberlândia. In: 57º Congresso Nacional de Botânica, 13º Encontro Estadual de Botânicos e 5º Encontro Estadual de Herbários, 2006. Gramado, Rio Grande do Sul, Brasil.

AWARDS AND GRANTS RECEIVED

2019 – Texas Ecolab (\$12,675)

2018 – Plant Biology Graduate Travel Support (\$2,000)

2018 – Society of Systematic Biology (\$500)

2018 – Texas Ecolab (\$29,886)

2017 – Plant Biology Graduate Travel Support, for participation at MBL Workshop (\$3,675)

2017 – University Graduate Continuing Fellowship 2017-2018 (\$40,396)

2017 – Texas Ecolab (\$17,756)

2016 – Graduate Dean’s Prestigious Fellowship Supplement, The University of Texas at Austin, Graduate School (\$1,000)
2016 – Student Travel Grant for Botany 2016, American Society of Plant Taxonomists (\$435)
2016 – Plant Biology Graduate Travel Support (\$1,125)
2016 – National Science Foundation, Doctoral Dissertation Improvement Grant - DDIG (\$12,948)
2015 – Texas Ecolab (\$18,051)
2015 – Jean Andrews Faculty Fellow Internship (\$1,500)
2015 – Linda Escobar Fellowship (\$1,000)
2015 – Graduate Dean’s Prestigious Fellowship Supplement, The University of Texas at Austin, Graduate School (\$1,000)
2015 – Plant Biology Graduate Research Support (\$1,200)
2014 – Linda Escobar Fellowship (\$1,700)
2014 – Graduate Dean’s Prestigious Fellowship Supplement, The University of Texas at Austin, Graduate School (\$1,000)
2014 – Plant Biology Graduate Student Research Support (\$800)
2013 – Department grant awarded (\$4,660)
2013-2017 – Science without Borders CAPES/CNPq Ph.D. scholarship (\$15,600/year + tuition and insurance)
2011-2013 – FAPESP Research Grant (\$29,645)
2011-2013 – CNPQ MSc. Fellowship (\$12,360)
2009 – CNPQ Undergraduate Fellowship (\$1,545)
2007 – PIBEG-UFU Undergraduate Fellowship (\$772)

TEACHING/MENTORING EXPERIENCE

2018-2019 Summer – Research Facilitator teaching bioinformatics in the Workshop on Molecular Evolution, Marine Biological Laboratories, Woods Hole, MA
2017-2018 Fall – Advised an undergraduate student (Brooke Bowman) in her capstone project
2017 Spring – Evolution, BIO 370
2016 Fall – Plant Systematics, BIO 463 L
2016 Spring – Molecules to Organisms, BIO 301L
2015 Fall – Structure, Physiology, and Reproduction of Seed Plants, BIO 322
2015 Spring – Molecules to Organisms, BIO 301L
2014 Fall – Molecules to Organisms, BIO 301L
2012 – Systematic of Angiosperms, Unicamp (Campinas, Brazil)
2011 – Systematic of Angiosperms, Unicamp (Campinas, Brazil)
2009 – Internship teaching science class – High School, UFU (Uberlândia, Brazil)
2008 – Internship teaching science class – Middle School, UFU (Uberlândia, Brazil)

COMPUTATIONAL SKILLS

Advanced knowledge of Bash, fluent in R and Python; SQL beginner; exposed to C++ and JavaScript; experience using HPC and parallelizing job for analyses of large datasets

Relevant coursework: Introduction to programming (Python), Computational Biology and Bioinformatics (R and Python), Introduction to Data Science in Python, Biology Meets Programming (Coursera), Big Data and Machine Learning Training (Python), Machine Learning (enrolled, Coursera), Principles of Machine Learning for Bioinformatics (Python and R)

Genomic data analysis: data processing, quality trimming, mapping, genome assembly and annotation

Relevant projects: wrote a pipeline for data cleaning, genome assembly, gene extraction, alignment, mapping, phylogenetic inference. During the 2019 Life Sciences Hackathon in Austin, TX worked on a team to develop the i14y prototype app that aims to improve interoperability of medical data records. Collaborating with a research group in UK contributing with software installation/compilation and the preparation of a custom pipeline for additional exploration of data. Collaborating on the development of an analytical tool that generates consensus of reads

FIELD EXPERIENCE

Brazil, Peru, Colombia, Texas – fieldwork and exportation logistics

LANGUAGE PROFICIENCY

Portuguese, English and Spanish

SERVICE ACTIVITIES

2017-2019 – Graduate Student Faculty Representative, Department of Integrative Biology, The University of Texas at Austin

2017-2019 – Graduate Student Representative, Dean’s Council, College of Natural Sciences

PEER REVIEW SERVICE

Frontiers in Plant Sciences | Rodriguésia

PROFESSIONAL AFFILIATIONS

American Society of Plant Taxonomy | Asociación Latinoamericana de Botánica

Botanical Society of America | Sociedade Brasileira de Botânica

Society for Molecular Biology and Evolution | Society of Systematic Biology