Curriculum Vitae
Juliana Benevenuto

University of Florida, Horticultural Science Department
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EDUCATION

2017-present: Postdoc Associate at University of Florida (UF), Gainesville-FL (USA).
Blueberry Breeding & Genomics Laboratory (Prof. Ph.D. Patricio R. Munoz)

2013 - 2017: Ph.D. in Genetics and Plant Breeding, University of São Paulo (USP), campus "Luiz de Queiroz" College of Agriculture (ESALQ), Piracicaba –SP (Brazil).
Dissertation: Molecular variability among Brazilian strains of the sugarcane smut pathogen and the genetic basis of host specialization in smut fungi (Adv: Prof. Ph.D. Claudia B. Monteiro-Vitorello).

2011-2013: Master of Science in Genetics and Breeding, Federal University of Viçosa (UFV), Viçosa-MG (Brazil).
Thesis: Molecular evolution of the Methionine Synthase gene in disjunct populations of *Carapichea ipecacuanha* (Rubiaceae). (Adv: Prof. Ph.D. Luiz Orlando de Oliveira).

2006-2011 : Bachelor of Science in Biology, Federal University of Viçosa (UFV), Viçosa-MG (Brazil) with academic distinction.
Term research: Genetic variability and population structure of an endangered stingless bee *(Melipona capixaba*-Hymenoptera: Apidae*)* using microsatellite markers analysis (Adv: Prof. Ph.D. Mara G. Tavares).

PUBLICATIONS

ARTICLES

CAPPAI F.C. *; **BENEVENUTO J**. *; FERRÃO L.F.V. *; MUNOZ, P. Molecular and Genetic Bases of Fruit Firmness Variation in Blueberry-A Review. **Agronomy** 8 (174). DOI:10.3390/agronomy8090174. *contributed equally

FERRÃO L.F.V.*; **BENEVENUTO J**.*, OLIVEIRA, I.B.; CELLON C.; OLMSTEAD J.; KIRST M.; RESENDE Jr. M.F.R.; MUNOZ P. (2018). Insights into the genetic basis of blueberry fruit-related traits using diploid and polyploid models in a GWAS context. **Frontiers in Ecology and Evolution** 6 (107). DOI: 10.3389/fevo.2018.00107. *contributed equally

BENEVENUTO J.; TEIXEIRA-SILVA N.S.; KURAMAE E.E.; CROLL D.; MONTEIRO-VITORELLO C.B. (2018). Comparative genomics of smut pathogens: Insights from orphans and positively selected genes into host specialization. **Frontiers in Microbiology** 9 (660). DOI: 10.3389/fmicb.2018.00660

PLISSONNEAU C.; **BENEVENUTO J.**; MOHD-ASSAAD N.; FOUCHÉ S.; HARTMANN F.E.; CROLL D. (2017). Using population and comparative genomics to understand the genetic basis of effector-driven fungal pathogen evolution. **Frontiers in Plant Science** 8(119). DOI:10.3389/fpls.2017.00119.

BENEVENUTO J.; LONGATTO D.P.; REIS G.V.; MIELNICHUK N., PALHARES A.C.; CARVALHO G., SAITO S.; QUECINE M.C.; SANGUINO A.; VIEIRA M.L.C.; CAMARGO L.E.A.; CRESTE S.; MONTEIRO-VITORELLO C.B. (2016). Molecular variability and genetic relationship among Brazilian strains of the sugarcane smut fungus. **FEMS Microbiology Letters** 363(24). DOI:10.1093/femsle/fnw277.

TANIGUTI L.M.; SCHAKER P.D.; **BENEVENUTO J**.; PETERS L.P.; CARVALHO G.; PALHARES A.; QUECINE, M.C.; NUNES F.R.S; KMIT M.C.P.; WAI A.; HAUSNER G.; AITKEN K.S.; BERKMAN P.J.; FRASER J.A.; MOOLHUIJZEN P.M.; COUTINHO L.L.; CRESTE S.; VIEIRA M.L.; KITAJIMA J.P.; MONTEIRO-VITORELLO C.B. (2015) Complete genome sequence of *Sporisorium scitamineum* and biotrophic interaction transcriptome with sugarcane. **PLoS ONE** 10(6), DOI: 10.1371/journal.pone.0129318.

NOGUEIRA J.; RAMOS J.C.; **BENEVENUTO J.**; FERNANDES-SALOMÃO T.M.; RESENDE H.C.; CAMPOS L.A.O.; TAVARES, M.G. (2014). Conservation study of an endangered stingless bee (*Melipona capixaba*-Hymenoptera: Apidae) with restricted distribution in Brazil. **Journal of Insect Conservation**, 18(3), DOI: 10.1007/s1084.

ABSTRACTS (Poster Presentation in Scientific Events)

CRESTANA, G. S.; TEIXEIRA-SILVA, N.S. ; **BENEVENUTO, J**. ; VITORELLO, C. B. M. Genetic diversity and expression profile of two effector candidates from *Sporisorium scitamineum*, the sugarcane smut causal agent. In: **63 º Congresso Brasileiro de Genética**, Águas de Lindoia-SP, Brazil, 2017.

BENEVENUTO J.; CROLL D.; MONTEIRO-VITORELLO C.B. Comparative genomics of smut pathogens: orphan and positively selected genes as potential drivers of host specialization. In: **XXV Plant & Animal Genome Conference**, San Diego, CA, USA, 2017.

BENEVENUTO J.; CROLL D.; McDONALD B.A.; MONTEIRO-VITORELLO C.B. The genetic basis of host specialization in smut fungi. In: **2nd International Meeting on Wild Plant Pathosystems**, Helsinki, Finland, 2016.

BENEVENUTO J. ; TANIGUTI L.M.; MONTEIRO-VITORELLO, C.B. A new oat smut genome sequencing and the unique gene repertoire among smut pathogens. In: **XXVI Plant & Animal Genome Conference**, San Diego, CA, USA, 2016.

ARAUJO, N.O.; **BENEVENUTO, J**.; MIELNICHUK, N.; MONTEIRO-VITORELLO, C.B.. Polymorphic variant of a candidate effector potentially involved in the specific interaction between *Sporisorium scitamineum* and sugarcane. In: **32 Genetics and Plant Breeding Meeting**, Piracicaba, SP, Brazil, 2015.

TANIGUTI L.M.; SCHAKER P.D.; **BENEVENUTO J**.; PETERS L.P.; CARVALHO G.; PALHARES A.; KITAJIMA J.P.; MONTEIRO-VITORELLO C.B. PacBio sequencing and genome annotation of *Sporisorium scitamineum*. In: **XXIII Plant & Animal Genome Conference**, San Diego, CA, USA, 2015.

BENEVENUTO J.; SOARES A.P.G.; OLIVEIRA L.O. Molecular evolution of Methionine Synthase gene in disjuncts populations of *Carapichea ipecacuanha* (Rubiaceae). In: **59º Brazilian Congress of Genetics**, Águas de Lindóia, SP, Brazil, 2013.

BENEVENUTO J.; REZENDE H.C.; SANTOS F.R.; TAVARES M.G. Characterization of microsatellite primers for *Melipona capixaba* (Hymenoptera: Apidae). In: **II International Symposium of Genetics and Breeding**, Viçosa - MG, Brazil, 2010.

MARTINS M.F.T.; BELO H.; **BENEVENUTO J**.; CHOUPINA A.B. Primer design for genes involved in *Phytophthora cinnamomi* pathogenicity. In: **II International Symposium of Genetics and Breeding**, Viçosa - MG, Brazil, 2010.

BENEVENUTO J.; PASSAMANI P.Z.; RESENDE H.C.; FERNANDES-SALOMAO T.M.; CAMPOS L.A.O.; TAVARES M.G.. Genetic variability of populations of *Melipona capixaba* (Hymenoptera: Apidae) using microsatellite markers. In: **54º Brazilian Congress of Genetics**, Salvador - BA, Brazil, 2008.

BOOK CHAPTER:

MONTEIRO-VITORELLO, C.B.; SCHAKER, P.D.C.; **BENEVENUTO, J**.; TEIXEIRA-SILVA, N.; ALMEIDA, S.S. Progress in understanding fungal diseases affecting sugarcane: smut. In: Achieving sustainable cultivation of sugarcane, Volume 2: Breeding, pests and diseases, ed. Philipe Root, 1ed.: Burleigh Dodds Science Publishing, 2018.

LONGATTO D.P.; CARVALHO G.; **BENEVENUTO J**.; PETERS L.P.; SCHAKER P.D.; TANIGUTI L.M.; MONTEIRO-VITORELLO C.B. Sugarcane smut: advances in understanding this pathosystem. In: Revisão Anual de Patologia de Plantas (RAPP), v. 23, pp. 62-89, 2015.

FELLOWSHIPS, HONORS, AWARDS:

2014-2017: Ph.D. student with fellowship from FAPESP (São Paulo Research Foundation);

2016: Internship abroad fellowship (BEPE-FAPESP) during six months at ETH Zurich, Switzerland in the Plant Pathology Group, under supervision of PhD. Daniel Croll and Prof. PhD. Bruce A. McDonald.

2015: Honor from Organizing Committee of "32 Genetics and Plant Breeding Meeting (USP/ESALQ)" with the poster "Polymorphic variant of a candidate effector potentially involved in the specific interaction between *Sporisorium scitamineum* and sugarcane".

2015: Fellowship from the Teaching Improvement Program (PAE) to assist in the subject "Cell Biology" at the University of São Paulo (USP);

2011-2013: MSc. student with fellowship from CNPq (National Council for Scientific and Technological Development);

2011: Honor from the Biological Sciences and Health Center of Federal University of Viçosa (UFV) for academic distinction during the Bachelor in Biological Science.

2010-2011: Undergraduate research with fellowship from FAPEMIG (Support Foundation for Minas Gerais State Research);

2009-2010: Fellowship for an internship abroad during six months at Polytechnic Institute of Bragança (IPB – Portugal) to attend classes and participate in the project "COMBATINTA: combat the chestnut ink disease caused by *Phytophthora cinnamomi* using molecular tools" (Adv: Prof. PhD. Altino Branco Choupina).

2008: "Arthur Bernardes" Honors and Awards for Education (UFV) with a poster.

2007-2009: Member of the Tutorial Education Program in Biological Sciences (PET-BIO) with fellowship from MEC (Ministry of Education) to develop research, education, and extension activities.

TEACHING ASSISTANT - UNDERGRAD CLASSES

2015: LGN0117- Cell Biology (USP/ESALQ)
2014: LGN0232- Molecular Genetics (USP/ESALQ)
2008: BIO340 - Evolution (UFV)

OTHER ACTIVITIES

Organization of scientific events_____05
Organization of courses _____11
Participation in Meetings and Series of Lectures_____11
Participation in Symposia and Congresses_____09
Participation in Short Courses (less than 10h) _____17
Participation in Long-Duration Courses (over 10h)_____13

BIOINFORMATICS TRAINING AND COURSES

2018: Computational Pipeline for WGS Data. 23rd Summer Institute in Statistical Genetics (SISG), Seatle-WA, USA. Credit Hours: 17h.

2018: Integrative Genomics. 23rd Summer Institute in Statistical Genetics (SISG), Seatle-WA, USA. Credit Hours: 17h.

2016: Algorithms and computational approaches for genome assembly and analysis, University of Campinas (Unicamp), Campinas, SP, Brazil. Credit Hours: 25h.

2015: Introductory course on genomic informatics, University of São Paulo (USP), São Paulo, SP,

Brazil. Credit Hours: 30h.

2015: Training course for certification in Linux LPI-1. National Commercial Training Service (SENAC), Piracicaba, SP, Brazil. Credit Hours: 80h

2015: Introduction to Programming. University of São Paulo (USP), São Paulo, SP, Brazil. Credit Hours: 60h

2014: High-dimensional omics data. Brazilian Edition of the Summer Institute in Statistical Genetics (SISG), Piracicaba, SP, Brazil. Credit Hours: 15h

2014: Database and Computing Tools Applied to Genomic. University of São Paulo (USP-ESALQ), Piracicaba, Brazil. Credit Hours: 120h.

2014: Introduction to Computing in R Environment. University of São Paulo (USP-ESALQ), Piracicaba, Brazil. Credit Hours: 60h.

PROGRAMMING SKILLS

Linux/Bash
R

LANGUAGES

Portuguese: Native
English: Advanced
Spanish: Beginner

PROFESSIONAL SOCIAL LINKS:

Brazilian CV Lattes: http://lattes.cnpq.br/0185187343640596
ResearchGate: https://www.researchgate.net/profile/Juliana_Benevenuto
ORCID ID: https://orcid.org/0000-0002-4698-2738