

Luciana Cunha Resende Moreira
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RESEARCH INTEREST

Phylogeography, population genetics, biogeography, conservation genetics, processes driving intra and interspecific divergence

PERSONAL INFORMATION

Address: Department of Ecology and Evolutionary Biology, University of Michigan
1085 Ruthven Museums Building
1109 Geddes Ave.
Ann Arbor, MI 48109

Nationality: Brazilian

EDUCATION

2012 – 2016 PhD in Evolutionary and Population Genetics UFMG, Brazil.
Advisor: Dr. Maria Bernadete Lovato.
Genetic diversity and phylogeography of *Byrsonima* (muricis) and *Hymenaea* (jatobás) tree species: inferences about the evolutionary relationship between central Cerrado and Amazonian savannas and between vicariant species.

2008 – 2010 M.Sc. in Evolutionary and Population Genetics, UFMG, Brazil.
Advisor: Dr. Maria Bernadete Lovato.
Diversity and genetic structure of the Brazilian rosewood (*Dalbergia nigra* – Fabaceae): effects of habitat fragmentation on the Brazilian Atlantic Forest.

2004 – 2008 Undergraduate program in Biological Sciences, UFMG, Brazil.

2007 Exchange program experience for one semester at Gonzaga University, WA, USA.

POSTDOCTORAL EXPERIENCE

2017 – present *University of Michigan, Ann Arbor.* Department of Ecology and Evolutionary Biology, Postdoctoral Research Fellow. Advisor: Dr. L. Lacey Knowles.

PUBLICATIONS

Resende-Moreira, LC.; Ramos, ACS; Scliar, MO; Silva, RM; Azevedo, VCR; Ciampi, AY; ; Lemos-Filho, JP; Lovato, MB (2017). Gene flow between vicariant tree species: insights into savanna-forest evolutionary relationships. *Tree Genetics & Genome*. v.13, p.s11295-017-1117.

Resende-Moreira, LC; Vasconcelos, PN; Souto, AP; Menezes, APA; Lemos-Filho, JP; Lovato, MB (2017). East-west divergence in central Brazilian Cerrado revealed by cpDNA sequences of a bird-dispersed tree species. *Biochemical Systematics and Ecology*, v.70, p.247 - 253.

Resende LC, Ribeiro RA, Lovato MB (2011). Diversity and genetic connectivity among populations of a threatened tree (*Dalbergia nigra*) in a recently fragmented landscape of the Brazilian Atlantic Forest. *Genetica*, 139:1159 - 1168.

Ribeiro RA, Rezende MFS, Resende LC, Lemos-Filho JP, Kalapothakis E, Lovato MB (2009). Development of polymorphic microsatellite markers for *Dalbergia nigra* (Papilionoideae), an endangered tree from the Brazilian Atlantic Forest. *Molecular Ecology Resources*, 9:203 - 206.

TEACHING EXPERIENCE (Undergraduate courses – 20 to 50 students)

2011 – 2015 UFMG, Department of Biology (Genetics and Ecology). Courses: Plant Genetics, Population Genetics, Basic Genetics, Advanced Genetics, Evolution II, Genetics and Evolution.

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UNDERGRADUATE MENTORING

- 2015** **Andrea Portilho Souto.** Genetic diversity and population structure of *Byrsonima crassifolia* (L.) Rich. (Malpighiaceae). Honors thesis for Biological Sciences – Centro Universitário UNA, Belo Horizonte, MG, Brazil.
- 2013** **Mayara Magalhães Enoque.** Transferability of microsatellite markers of *Byrsonima crassifolia* to congeneric species. Honors thesis for Biological Sciences – Pontifícia Universidade Católica de Minas Gerais, Belo Horizonte, MG, Brazil.
- 2013 – 2016** Mentoring of many undergraduate students, providing training in molecular techniques, data analysis and reading and writing scientific literature: Alison Alison Pelri Albuquerque Menezes, Andrea Portilho Souto, Jéssica Moraes Coimbra Martins, Leonardo Hoehne do Valle, Mayara Magalhães Enoque.

AWARDS AND GRANTS

- 2017 – 2019** CNPq (Conselho Nacional de Desenvolvimento Tecnológico), 401800/2016-4, (Lovato MB, PI; Moreira-Resende LC, collaborator; L. Lacey Knowles, collaborator) Historical relationship between central Cerrado and Amazonian savannas: genetic diversity, phylogeography and conservation of tree species.:R\$56,194.
- 2015 – 2016** Fellowship to collaborate with Dr. L. Lacey Knowles (University of Michigan). CAPES (Coordenação de Aperfeiçoamento de Pessoal de Nível Superior): U\$22,300.
- 2014 – 2015** FAPEMIG (Fundação de Amparo à Pesquisa de Minas Gerais/ Research Foundation of Minas Gerais), CRA – APQ-00960-13, (Lovato MB, PI, Moreira-Resende LC, collaborator) Phylogeography and genetic diversity of widely distributed trees from the Cerrado: *Qualea grandiflora* and *Q. multiflora*; R\$42,903.
- 2013 – 2015** CNPq (Conselho Nacional de Desenvolvimento Tecnológico), 475331/2012-5, (Lovato MB, PI, Moreira-Resende LC, collaborator) Phylogeography and genetic structure of Cerrado tree species: comparison of disjunct, peripheral and core populations; R\$56,546.
- 2012 – 2015** *PhD scholarship.* CAPES (Coordenação de Aperfeiçoamento de Pessoal de Nível Superior) / REUNI. Graduate Genetics Program, UFMG. R\$33,000 per year
- 2011** *Fellowship:* Desenvolvimento Tecnológico Industrial (DTI – Development of Industrial Technology) – FAPEMIG (Fundação de Amparo à Pesquisa de Minas Gerais/ Research Foundation of Minas Gerais). Laboratório de Genética de Populações de Plantas, UFMG. R\$5,000
- 2010** *Graduate award in Genetics, Evolution and Plant Breeding* - Honorable Mention - Sociedade Brasileira de Genética (SBG)- 56º Congresso Brasileiro de Genética (56º Brazilian Genetics Conference).
- 2009** *Graduate award in Genetics, Evolution and Plant Breeding* - Honorable Mention - Sociedade Brasileira de Genética - 55º Congresso Brasileiro de Genética (55º Brazilian Genetics Conference).
- Master's scholarship.* CNPq (Conselho Nacional de Desenvolvimento Tecnológico). Graduate Genetics Program, UFMG. R\$28,800
- 2007** *Undergraduate scholarship:* CAPES/FIPSE, Gonzaga University, WA, USA. U\$7,000

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- 2006** “One of the best research works in the field of Agrarian and Biological Sciences” - XV Semana de Iniciação Científica (XV Undergraduate Research Week at UFMG), UFMG.
- 2005 – 2006** *Undergraduate research scholarship*: CNPq. Laboratório de genética de populações de plantas, UFMG.

CONFERENCE PRESENTATIONS

INVITED TALKS

- 2010** Resende LC, Ribeiro RA, Lovato MB. Population structure and genetic diversity of *Dalbergia nigra* (Fabaceae): evaluation of the effects of fragmentation on the Brazilian Atlantic Forest. In: 56^o Congresso Brasileiro de Genética (56^o Brazilian Genetics Conference). Guarujá, SP, Brazil.
- 2009** Resende LC, Ribeiro RA, Lovato MB. Genetic diversity of remnant populations from the Brazilian Atlantic Forest: case study with *Dalbergia nigra* (Fabaceae) In: 55^o Congresso Brasileiro de Genética (55^o Brazilian Genetics Conference). Águas de Lindóia, SP, Brazil.

CONTRIBUTED TALKS

- 2017** Resende-Moreira LC, Thomaz AT, Prado JR, Souto AP, Lemos-Filho JP, Lovato MB, Knowles L. Severed connections and isolation of relictual Amazonian savannas inferred from genomic data.” In: Evolution 2017. Portland, OR, USA.

POSTERS

- 2014** Vasconcelos PN, Resende-Moreira LC, Lemos-Filho JP, Lovato MB. Comparative phylogeography of two species of trees disjunctively distributed in the Cerrado core area and coastal savannas of Brazil. In: 60^o Congresso Brasileiro de Genética (60^o Brazilian Genetics Conference). Guarujá, SP, Brazil.

Menezes APA, Enoque MM, Resende-Moreira LC, Lemos-Filho JP, Lovato MB. Cross-amplification of microsatellite markers developed for *Byrsonima crassifolia* (L.) Kunth (Malpighiaceae) in other congeneric species. In: XI Congresso Latinoamericano de Botânica e 64^o Congresso Nacional de Botânica (XI Latinamerican Botanical Conference and 64^o Brazilian Botanical Conference). Salvador, BA, Brazil.

Resende-Moreira LC, Vasconcelos PN, Souto AP, Lemos-Filho JP, Menezes APA, Lovato MB. Molecular methods for phylogeographical studies in *Byrsonima coccolobifolia* Kunth (Malpighiaceae) and *Salvertia convallariodora* A.St.-Hil. (Vochysiaceae). In: XI Congresso Latinoamericano de Botânica e 64^o Congresso Nacional de Botânica (XI Latinamerican Botanical Conference and 64^o Brazilian Botanical Conference). Salvador, BA, Brazil.

- 2013** Souza ML; Bahia, TO; Resende-Moreira LC; Lemos-Filho JP. Effects of habitat fragmentation on the phenology and on the architecture of *Dalbergia nigra* (Fabaceae). In: 64^o Congresso Nacional de Botânica (64^o Brazilian Botanical Conference). Belo Horizonte, MG, Brazil.

- 2011** Resende LC; Ribeiro RA; Lovato MB. Anthropogenic impacts on the Brazilian Atlantic Forest: genetic effects on the threatened tree *Dalbergia nigra* (Leguminosae). In: XVIII International Botanical Congress. Melbourne, Australia.

Chicata FSL; Resende LC; Fantini R; Lemos-Filho JP; Lovato MB. Genetic diversity of a legume tree species *Dalbergia miscolobium* through a latitudinal gradient in the Brazilian Cerrado. In: 57^o Congresso Brasileiro de Genética (57^o Brazilian Genetics Conference). Águas de Lindóia, SP, Brazil.

- 2010** Resende LC, Ribeiro RA, Lovato MB. Population structure and genetic diversity of *Dalbergia nigra* (Fabaceae): evaluation of the effects of fragmentation on the Brazilian Atlantic Forest.

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In: 56^o Congresso Brasileiro de Genética (56^o Brazilian Genetics Conference). Guarujá, SP, Brazil.

- 2009** Resende LC, Ribeiro RA, Lovato MB. Genetic diversity of remnant populations from the Brazilian Atlantic Forest: case study with *Dalbergia nigra* (Fabaceae) In: 55^o Congresso Brasileiro de Genética (55^o Brazilian Genetics Conference). Águas de Lindóia, SP, Brazil.

Chicata FSL, Resende LC, Ribeiro RA, Lovato MB. Genetic diversity of the Brazilian rosewood (*Dalbergia nigra* - Fabaceae), a threatened species from the Brazilian Atlantic Forest. In: XVIII Semana de Iniciação Científica da UFMG (XVIII Undergraduate Research Week at UFMG). Belo Horizonte, MG, Brazil.

- 2008** Resende LC, Ribeiro RA, Lovato, MB. Genetic diversity of *Dalbergia nigra* (Leguminosae) using microsatellite markers. In: 54^o Congresso Brasileiro de Genética (54^o Brazilian Genetics Conference). Salvador, BA, Brazil.

- 2006** Novaes RML, Resende LC, Ramos ACS, Ribeiro RA, Lemos-Filho JP, Lovato MB. CpDNA haplotype diversity of *Plathymenia reticulata* (Leguminosae) In: 52^o Congresso Brasileiro de Genética (52^o Brazilian Genetics Conference). Foz do Iguaçu, PR, Brazil.

Ramos ACS, Ciampi AY, Resende LC, Lemos-Filho JP, Lovato MB. Diversity and population structure of vicariant species (*Hymenaea courbaril* e *H. stigonocarpa*), using microsatellite markers. In: 52^o Congresso Brasileiro de Genética (52^o Brazilian Genetics Conference). Foz do Iguaçu, PR, Brazil.

Ramos ACS, Resende LC, Lemos-Filho JP, Lovato MB. Phylogeography of *Hymenaea courbaril* (Fabaceae - Caesalpinioideae) using cpDNA sequence variation. In: 57^o Congresso Nacional de Botânica (57^o Brazilian Botany Conference). Gramado, RS, Brazil.

Resende LC, Ramos ACS, Lovato MB. Genetic diversity of populations of *Hymenaea courbaril* (Fabaceae), using cpDNA markers. In: XV Semana de Iniciação Científica da UFMG (XV Undergraduate Research Week at UFMG). Belo Horizonte, MG, Brazil.

Novaes RML, Resende LC, Ramos ACS, Ribeiro RA, Lemos-Filho JP, Lovato MB. Molecular methodologies for the phylogeographic analysis of *Plathymenia reticulata* (Leguminosae) In: XV Semana de Iniciação Científica da UFMG (XV Undergraduate Research Week at UFMG). Belo Horizonte, MG, Brazil.

- 2005** Vasconcellos PC, Pimenta MA, Andre BCMC, Cadete RM, Queiroz ACL, Resende LC, Fernandes GW. Analysis of gall richness relative to environment conditions at Estação Ecológica da UFMG In: VII Congresso de Ecologia do Brasil (VII Brazilian Ecology Conference). Caxambú, MG, Brazil.

TRAINING COURSES ATTENDED

- 2016** Statistical phylogeographic modeling application in Ecology and Evolutionary Biology. University of Michigan, Ann Arbor, MI.

- 2014** Phylogeography. UNICAMP (Universidade Estadual de Campinas), Campinas, SP, Brazil.

Next Generation Sequencing: theory and hands-on activities. UFMG, Belo Horizonte, Brazil.

- 2012** Principles of species distribution modelling: theory and practice. UFMG, Belo Horizonte, Brazil.

Lessons in undergraduate teaching. UFMG, Belo Horizonte, Brazil.

- 2008** Writing scientific papers. UFMG, Belo Horizonte, Brazil.

- 2006** Evolution and molecular phylogeny. 52^o Congresso Brasileiro de Genética, SBG, Brazil.

- 2005** Plant molecular biology. Empresa Brasileira de Pesquisa Agropecuária (EMBRAPA), Brazil.