

# III Workshop in Genetics and Plant Breeding

Data analysis: an essential skill in science

Mini Course III

## Molecular Phylogenetics

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Campos dos Goytacazes/RJ



Postdoctoral research at Universidade Estadual do Norte Fluminense "Darcy Ribeiro" (UENF). He has experience in Agronomy, focusing on Plant Pathology, acting on the following subjects: Molecular Phylogeny, Molecular Phylogeography, Population Genetics and Bioinformatics.

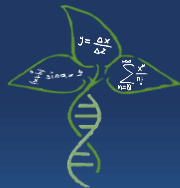
November  
12-14<sup>th</sup> 2019

Convention Center of UENF  
Campos dos Goytacazes, RJ

Registration  
opening  
Aug 12<sup>th</sup>

Abstracts  
submission  
Aug 12<sup>th</sup> - Oct 20<sup>th</sup>

More information: [www.ganhogenetico.com/iii-wgpb](http://www.ganhogenetico.com/iii-wgpb)



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## Program Content

- Tree thinking & Data Acquisition**
- ✓ Basic Concepts of Biological Sequence Evolution
- ✓ Initial analysis and hypothesis thinking
- ✓ Viewing and annotating trees
- Alignment & Alignment Uncertainty**
- ✓ Brief theory
- ✓ “MAS “Best Practices for Phylogenetic Analysis
- ✓ Practical Tutorial
- Model Testing & Bayesian Data Analysis**
- ✓ Substitution model testing
- ✓ Maximum likelihood
- ✓ Bayesian Reconstruction
- ✓ Troubleshooting with Tracer
- ✓ Practical Tutorial
- Phylogenetic trees edition**
- ✓ Practical Tutorial
- ✓ Figtree

