

RENATO CARVALHO

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EDUCATION

Ph.D. Plant Pathology

August 2018- August 2022

Plant Pathology Department - University of Florida

Dissertation topics: Nanotechnology applied as novel approaches to manage disease in plants.

Gainesville – FL

Masters Business Administration

December 2016

Emphasis in Phytosanitary

IAC – Agronomic Institute of Campinas

Master's Technological Chemistry

January 2015

Analytical Chemistry Department - UFSCar

Master thesis: Combination between NIR and Chemometrics tools to analyze fibered samples of sugarcane.

Bachelor's Chemistry

FHO – Federal University of São Carlos - UFSCar

December 2010

PROFESSIONAL EXPERIENCE

University of Florida

Sep 2017 – Feb 2018

Intern – Quincy FL

- Lead for the Project: A novel Cu/Zn hybrid nano-material: Antibacterial properties against Copper-Tolerant *Xanthomonas perforans* and bacterial spot of tomato.

Advisor: Dr. Mathews Paret

Monsanto

Dec 2015 – Aug 2017

Research Associate – Petrolina PE - Brazil

- Implementation of Quality Management System in the laboratory ensuring the ABNT NBR ISO/IEC 17025:2005.
- Creation and execution of quality assurance and biosecurity training for 300 coworkers, ensuring 100% compliance with department policy.
- Imported high-quality seeds from worldwide sources, working closely with government regulators to ensure phytosanitary, documentation, and quarantine compliance.. Process including documentation, traceability, reports and quarantine analysis (nematodes, bacteria, virus, fungi and insects in corn, soybeans, cotton and sorghum) also close relationship with MAPA (Ministry of Feedstock and Agricultural of Brazil);

Jun 2011 – Nov 2015

Research Associate – Conchal SP - Brazil

- Lab Coordinator (Conchal/SP, Araçatuba/SP and Mandaguáçu/PR) in sugarcane breeding labs; Implementation of novel near-infra-red technology to analyze fibered samples of sugarcane, resulting in a 150% analytical capacity increase with no increase in testing costs.;
- Leading people, supplies, forecast and the interface between labs process and breeders;
- Constant contact and exchange of good practices with excellence laboratories, provide technical trainings about sugar production in sugarcane plant; main responsible for quality and traceability of the data and process for three laboratories

ACADEMIC SERVICES AND OTHER ACTIVITIES

- **NanoFlorida 2018** - Florida Institute of Technology – Melbourne FL 2018

Presentation in the section: Nanotechnology in Agriculture – New approaches for hybrid nanomaterials against plant pathogens.

- **Phytosanitary Applied Course**, ESALQ/USP – Piracicaba, Brazil 2016

Technical phytosanitary training to detect and identify Fungi, insects, bacteria, virus and nematodes

- **GAIA** - Applied Instrumental Analysis Group. UFSCar – São Carlos, Brazil 2013-2015

Group responsible to receive and help candidates from undergraduate masters and Ph.D.

Work group;

Lab meetings;

Forecast and Planning;

Change ideas, experiences and resources.

- **Winter School**, First Chemometrics Winter School. Unicamp – Campinas, Brazil 2015

Participation on lectures, mini courses and workshop of uses and applications of chemometrics in chemistry studies.

- **International Congress**, 1o Bio Energy Congress. ESALQ/USP – Piracicaba, Brazil 2014

Lectures and posters about bio energy field. Including challenges of sugarcane, corn and sweet sorghum harvests, analysis and industry process.

RESEARCH PROJECTS

Lead the project “Combination between NIR and Chemometrics tools to analyze fibered samples of sugarcane”. Poster in TCM (Technology Committee of Monsanto – USA and Argentina) and Presentation in UNICAMP Scientific Congress, Brazil. 2015.

PROFESSIONAL APPOINTMENTS

ABNT NBR ISO/IEC 17025:2005. Training for ISO 17025 responsible to standardize the process and traceability for laboratory process. Provided by Gestão Consultoria. 60 hours. November 2016

LEAN projects. Provided by Global Plant Breeding Sustainability Lead, Michelle Glaspie. 32 h. October 2016.

Process Improvement - Monsanto technical course to identify opportunities and exchange best practices to improve all the process in the company to produce more and guarantee quality. 30 hours. May 2016

AWARDS

Monsanto recognition (Premio Mais) for extra efforts to create and train interns in procedures of labor safety and QMS (Quality management System) November 2011.