ALBA MYERS

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RESEARCH TECHNOLOGIST/ LABORATORY TECHNICIAN

Educational Knowledge and training experience with a passion for research, teaching, tissue culture, biotechnology, molecular biology, diagnostic, disease indexing and analyzing and optimization of protocols. Creative, dynamic, well organized with attention to detail that works well independently, meet deadlines, make well thought out decisions and capable of functioning effectively as a team member.

- Environmental Life Science • Plant Pathology • Research and Development • Laboratory Manager
- Biotechnology •Tissue Culture• Bioreactors • Micropropagation • In-vitro Propagation • Plant Science
- Horticulture Science • Vertical agriculture • Hydroponic Systems • Environmental Projects & Ecological Restoration • Nursery Management • Training • Design • Issue Resolution • Process Improvement • Customer Service • Merchandising • Benchmarking • Inventory • Management

EDUCATION

Master of Science, University of Florida, Gainesville Florida •2024-2026
Master of Landscape Architecture, Florida International University**,** Miami Florida •2008-2011
Bachelor of Science, University of Florida, Gainesville Florida • 2002-2006
Environmental Science focused on Propagation, Tissue Culture and Biotechnology

ACADEMIC AND PROFESSIONAL ACHIEVEMTS

2013**. In Vitro Growth of *Jatropha curcas L*. Cell Cultures in Microgravity**. The Florida State Horticultural Society (FSHS) proceedings Natural Resource Vol 126. https://journals.flvc.org/fshs/issue/archive.
2013. Preliminary Study of the Differential Gene Expression in *Jatropha curcas L*. In Vitro **Cultures Exposed to Microgravity**. The Florida State Horticultural Society (FSHS) proceedings. Natural Resource https://journals.flvc.org/fshs/issue/archive.
2004. **Propagation of Yellow Kampong Royal Poinciana via somatic embryogenesis**. Peer review publication by The Florida State Horticultural Society (FSHS) proceedings vol. 117. https://journals.flvc.org/fshs/issue/archive.
2004. **Somatic Embryogenesis induction in *Delonix regia***. Publication by the journal of Undergraduate Research (Volume 5, Issue 7, March 2004, 2003. Undergraduate Internship awarded by The College of Agriculture and Life Science, University of Florida. Gainesville, Florida.

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PROFESIONAL EXPERIENCE

University of Florida Belle Glade Florida. December 2022- Present.
Biological Scientist II
Studies conducted in laboratory such as fungi isolations, glycerol and filter paper fungi preservation, microscopy, cryopreservation, molecular markers and PCR techniques, DNA and RNA technology and growth chambers.
Studies conducted in greenhouse and shade houses.
Assisting for designing specific goals for research projects in conjunction with supervisor.
Conducting experiments.
Plating fungi, activating fungi and single spore isolation.
Inoculating corn cultivars in field and greenhouse.
Sowing and planting vegetables in greenhouse and field.
Assisting growers with samples and fallow up with results.
Managing, ordering, and maintaining an inventory of all laboratory supplies and equipment.
Managing and leading research projects or a component of a research project, following mission and scientific procedures, requirements, and protocols.
Maintains the Material Safety Data Sheet folder updated.
Preparation of stock solutions, solutions for molecular biology, buffers, culture media for fungi isolations,
Supervising greenhouse personnel.
Assisting local and foreign graduate and Ph.D. students, visitors, and staff with greenhouse and field projects
Assist with maintaining laboratory safety programs and training personnel in laboratory safety techniques.

Keeping Inventory, store, and disposal of all chemical and hazardous waste.
Training and supervising local and foreign graduate and Ph.D. students, visitors, and staff.

Nature's way Farms Homestead Florida. October 2020- February 2022.
Grower
Participate in grower's meetings as necessary.
Assist production department with new crops' allocation.
Coordinate the receipt and placement of plant material in their houses accordingly.
Coordinate the production of ornamental crops, new products, pesticides and plant growth regulators or other chemicals to improve efficiency, profitability, product mix or consistency of products.
Direct the application of, rates and types of fertilizers, whether slow-release or liquid, to be applied to all crops of responsibility.
Direct the application of, rates and types of pesticides to be applied to all crops of responsibility.
Direct the application of, rates and application method of all plant growth regulators to be applied to all crops of responsibility.
Conduct and/or manage documentation of soil and/or tissue testing as required to identify pest problems, nutritional deficiencies.
Coordinate the receipt and placement of plant materials with the Operations or Production Departments.
work closely together with grower manager and head grower

Costa Farms, Homestead Florida. June 2017- June 2019.
Assistant Grower
Responsible for projects assigned form beginning to end, that includes propagation, production and creating reports.
Responsible for creating all DCS for DSI for projects assigned.
Responsible for confidential Trials, working closely with R&D grower.
Collect data on projects assigned.
Participate in R&D meetings as necessary
send bi-weekly pictures to interested parties on projects assigned.
Assist production department with new crops that moved to R&D to production .
Coordinate the receipt and placement of plant material with R&D Manager.
Set-up trial protocols based on objectives, record results and coordinate the production of trials of alternate genetics, new products, pesticides and plant growth regulators or other chemicals to improve efficiency, profitability, product mix or consistency of products.
Maintain organized and up to date records on active trials.
Compile written reports within 7 days of trial conclusion.
Assist in the organization, breeder follow-up and installation of the trial garden programs.
Direct the application of, rates and types of fertilizers, whether slow-release or liquid, to be applied to all crops of responsibility.
Direct the application of, rates and types of pesticides to be applied to all crops of responsibility.
Direct the application of, rates and application method of all plant growth regulators to be applied to all crops of responsibility.
Conduct and/or manage documentation of soil and/or tissue testing as required to identify pest problems, nutritional deficiencies.
Coordinate the receipt and placement of plant materials with the Operations or Production Departments.
Participate in R&D Department meetings as required.

Florida Crystals Corporation, Wellington Florida. August 2015-July 2016
Research Technologist
Produce sugar cane clean seeds by tissue culture means using bioreactors.
Assisting R&D to obtain Standard Operation Procedures (SOP) for tissue Immunoassay to detect Yellow leaf Virus (YLV) and Ratoon Stunting disease (RSD) in sugar cane field stock.
Managing Diagnostic and Disease Indexing.
Applying Standard Operation Procedures to maintain tissue culture laboratory running.
Assembling, sterilizing and inoculating bioreactors.
Conducted mass propagation of Sugarcane utilizing bioreactors.

University of Florida. February 2011- August 2015

Biological Scientist
Design and set up research experiments
Leading research projects in laboratory, field, or greenhouse environments. Conduct projects related to routine molecular biology procedures including isolation and quantification of DNA and RNA, PCR techniques, and developing techniques of micropropagation in vitro and in vivo.
Planning, executing, interpreting, and reporting scientific research.
Collects, analyzes, and summarizes data and prepares written work products for professional articles, publications, and technical abstracts.
Solving problems in scientific and technical execution, assisting in interpret experimental data, maintain accurate records, and interpreting preparation of data and figures for manuscripts and for scientific presentations.
Managing, ordering, and maintaining an inventory of all laboratory supplies and equipment.
Managing and leading research projects or a component of a research project, following mission and scientific procedures, requirements, and protocols.
Maintains the Material Safety Data Sheet folder updated.
Preparation of stock solutions, solutions for molecular biology, buffers, culture media for tissue culture, bioreactors, and hydroponic systems.
Supervising greenhouse personnel.
Assist with maintaining laboratory safety programs and training personnel in laboratory safety techniques.
Keeping Inventory, store, and disposal of all chemical and hazardous waste.
Training and supervising local and foreign graduate and Ph.D. students, visitors, and staff.

TRAINING

2023 Pesticides application Core Required and Agricultural Row Crop Pest Control
2016. Disease Indexing. Florida Crystals Corporation
2016. Disease Diagnostic. Florida Crystals Corporation
2015 Field and greenhouse vegetable trials using manual pollination in the greenhouse and open pollination in the field on vegetable crops. The university of Florida
2014. Mass propagation of Sugarcane by in-vitro means and bioreactors. The university of Florida
2014. Mass propagation of Banana by in-vitro means and bioreactors. The university of Florida
2014. Hydroponics. The university of Florida.
2014. Online Professional Certificate in Plant Breeding and Genetics. University of Nebraska.
2012. Plant Flow Cytometry. The university of Florida.
2011. Vertical Agriculture. The university of Florida.
2011. Advance Spot Program. University of Florida.
2011. Introduction to SAS, University of Florida.
2011. Cryopreservation. University of Florida.
2011. RNA and DNA Isolation, quantification and purification. The university of Florida.
2011. Agarose Gel. The university of Florida.
2008. Excel 2007 level 2 and 3, Executrain.
2005. Level 1and 2 ArcGIS mapping and analysis, Florida Atlantic University.
2003. Tissue Culture. The university of Florida.
2006-2011. AutoCAD, Adobe Creative Suite, Sketch-up. Florida International University.
2002. Advanced Field Study. Fairchild Tropical Garden.
2002. Compost. The university of Florida.
2002. Bonsai. The university of Florida.
2003. Insect Id. Entomology training. The university of Florida.
Outlook, Excel, MS office, Power Point.

TEACHING EXPERIENCE

Training personnel with different cultural background for greenhouse and field confidential trials.
Laboratory Instructor of Biotechnology and tissue culture to high school community service students and teachers.
Laboratory Instructor of Biotechnology and tissue culture to foreign and local graduate and Ph.D. students.

SCIENTIFIC MEETINGS/PRESENTATIONS

2013. **In Vitro Growth of *Jatropha curcas L*. Cell Cultures in Microgravity.** The Florida State Horticultural Society (FSHS) Vero Beach, Florida. Proceedings Natural Resource Vol 126. https://journals.flvc.org/fshs/issue/archive.

2004. Thesis presentation: **Somatic Embryogenesis Induction in *Delonix regia* (Boger.) Raf. (Royal Poinciana**) to The Florida State Horticultural Society (FSHS). Orlando, Florida https://journals.flvc.org/fshs/issue/archive.

LANGUAGE SKILLS

Bilingual Spanish and English. Understand Portuguese and Understand and speak mid-level Swedish.

REFERENCES

Upon request**.** My LinkedIn account Alba Myers, LinkedIn: Alba Myershttps://www.linkedin.com/in/alba-myers-82489859. I have references from previous employer and clients.