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Professional Preparation

Tuskegee University	B.S., Plant and Soil Sciences	1997
Tuskegee University	M.S., Plant and Soil Sciences	2000
Iowa State University	Ph.D., Genetics	2008

Research Experience

2008- Present	Research Assistant Professor, <i>Department of Agricultural, Environmental and Natural Sciences and the Department of Biology</i> , Tuskegee University, Tuskegee, AL
2000-2007	Doctoral Research, <i>Iowa State University, Ames, IA</i> <i>Advisor: Dr. W. Allen Miller</i>
1998	NASA Scholar, Lyndon B. Johnson Space Center, Houston, Texas
1995	Undergraduate Internship, Michigan State University, East Lansing, MI <i>Mentor: Dr. Kenneth Keegstra</i>
1994	Undergraduate Internship, Michigan State University, East Lansing, MI <i>Mentor: Dr. Michael Thomashow</i>
1993-1996	Undergraduate Research Assistant, Center for Plant Biotechnology Research, Tuskegee, Alabama

Fellowships, Honors and Awards

2009	Gamma Sigma Delta Honor Society of Agriculture Outstanding Service Award, <i>Tuskegee University</i>
2009	Sigma XI Research Society Certificate, <i>Tuskegee University</i>
2008	Outstanding Leadership Award for Impacting Biotechnology to Educators and Students, <i>Tuskegee University</i>
2003-2006	Ruth L. Kerchsentine Pre-Doctoral Minority Fellowship Award-National Institutes of Health (NIH), <i>Iowa State University</i>
2000-2003	George Washington Carver Fellowship, <i>Iowa State University</i>
1998	NASA Scholar Certificate, <i>Johnson Space Center, Houston, Texas</i>
1998	NASA Recognition of an Exemplary Contribution Award - <i>Johnson Space Center, Houston, Texas</i>
1997	NASA Certificate of Special Recognition, <i>North Carolina</i>
1996	Sigma Xi 1st Place Oral Presentation Award, <i>Tuskegee University</i>
1996	Alpha Kappa Mu Honor Society, <i>Tuskegee University</i>
1995	Plant Science Award - <i>Tuskegee University</i>
1994	Tuskegee University Dean's List - <i>Tuskegee University</i>
1993 – 1997	NASA Scholarship Recipient - <i>NASA, Tuskegee, AL</i>

Relevant Publications

1. Rakotondrafara, A. M., **Jackson, J.R.**, Pettit-Kneller, E. and Miller, W. A. 2007. Preparation and Electroporation of Oat Protoplasts from Cell Suspension Culture. Current Protocols in Microbiology, 16D.3.1-16D.3.12. John Wiley & Sons, Inc.
2. **Jackson, J. R.**, M. Egnin, Q. Xhue, C. S. Prakash. 1996. Development of Plant Gene Vectors for Tissue Specific Expression Using the Green Fluorescent Protein (*GFP*) gene as a Reporter. In: Ed. E. O. Daso and S. Mebane.

3. **Jackson, J. R.** 1995. Using Genetic Information to Create a More Perfect Society: Ethical and Moral Choices, Global Issues Guidebook. Pp. 475-81

Pending Publications

1. **Jackson, J. R.** and W. A. Miller. Functional Analysis of a Plant Viral Subgenomic RNA Promoter that Contains an Embedded Translation Enhancer Element (To be submitted to *Journal of Virology*)
2. **Jackson, J. R.**, Sijun, L. and W. A. Miller. Barley Yellow Dwarf Virus Subgenomic RNA Knockout Mutants Replicate and Cause Disease in Oat Plants (To be submitted to *Molecular Plant-Microbe Interactions*)

Synergistic Activities

1. 2010: **Council for Scientific and Industrial Research (CSIR), Kumasi, Ghana:** Served as an instructor for the Institute of Crop Research Regional Training in Biotechnology and Biosafety program. Lectures included an introduction biotechnology, its applications and how to develop genetically modified organisms. Laboratory exercises included DNA isolation from themselves and from plants. (July 12-25th)
2. 2010: **West Africa Centre for Crop Improvement (WACCI), Accra, Ghana:** Served as an instructor for the WACCI summer program where I taught basic molecular biology that included an introduction to gene expression and regulation, nucleic acid and protein chemistry, DNA cloning, etc. Laboratory exercises included gene expression studies and DNA isolation from plants. (July 5-11th)
3. 2009: **Institute for Integrated Rural Development (IIRD) Sweet Potato Tissue Culture Project, Dhaka/Sherpur, Bangladesh:** This mission served to fulfill an ongoing collaboration with IIRD to evaluate the progress of the sweet potato project at the tissue culture lab facility in Sherpur, Bangladesh and to assess the health of the newly established local sweet potato varieties growing in tissue culture at the lab.
4. 2008: **Visiting Scientist at the Institute of Integrated Rural Development (IIRD) in Bangladesh.** Trained laboratory staff in sweet potato tissue culture techniques. Established two local sweet potato varieties into tissue culture as a means of providing future certified seed stock to local farmers in an effort to address the widespread malnutrition existing among the poor in Bangladesh. These were the first tissue cultured sweet potato in the country.