

**Gregory C. Bernard**  
Assistant Professor of Plant Sciences  
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**Professional Preparation**

Tuskegee University	Integrative Biosciences	Ph.D., 2015
North Carolina State University	Plant Pathology	M.S., 2010
N.C. A&T State University	Animal Health	M.S., 2004
N.C. A&T State University	Animal Science	B.S., 1999

**Appointments**

Assistant Professor of Plant Sciences, Tuskegee University	June 2017 - present
Post-Doctoral Researcher, Tuskegee University	2015-2017
Botany and Biotechnology Lecturer	2015-2017
Plant Breeding and Genetics Program Mentor	2014-Present

**Products**

*(i) Five closely related products*

1. Inocent Ritte, Marceline Egnin, Paul Kusolwa, Papias Binagwa, Kheri Kitenge, Desmond Mortley, Steven Samuels, **Gregory C. Bernard**, Osagie Idehen, and Conrad Bonsi. Characterization of Markers Linked to Resistance Motifs against Maize Lethal Necrosis in Tanzanian Maize Germplasms (In Press).
2. Inocent Ritte, Marceline Egnin, Paul Kusolwa, Papias Binagwa, Kheri Kitenge, Desmond Mortley, Steven Samuels, **Gregory Bernard**, Osagie Idehen, and Conrad Bonsi. (2017). Evaluation of Tanzanian Maize Germplasms for Identification of Resistant Genotypes Against Maize Lethal Necrosis. African Journal of Plant Science. Vol 11(10):377-391
3. **Gregory C. Bernard**, Marceline Egnin, Conrad Bonsi, Desmond Mortley, William H. Witola, Wendell McElhenney, Steven Samuels, Caroline Land, and Kathy Lawrence (2017). Evaluation of root-knot nematode resistance in sweetpotato. African Journal of Agricultural Research. Vol. 12(16):1411-1414.
4. Gregory **C. Bernard**, Marceline Egnin, Conrad Bonsi. (2017). The Impact of Plant-Parasitic Nematodes on Agriculture and Methods of Control. Nematology - Concepts, Diagnosis and Control," ISBN 978-953-51-3416-9. InTech Open Access DOI: 10.5772/intechopen.68958
5. Co-Principal Investigator 2016 USDA-NIFA Grant. Title: EXPLORING NEXT GENERATION SWEETPOTATO BREEDING WITH CRISPR ASSOCIATED PROTEINS Marceline Egnin (Project Director), Desmond Mortley (PI), **Bernard Gregory** (PI), Samuel Steven (PI), Conrad Bonsi (PI), Stanton Gelvin (CoPI), Lan-Ying Lee (SP), Sy M. Traoré (CoPI consultant), Jolly Curtis, External Evaluator. USDA-NIFA Amount: \$497,500 (USD) for three years Date: Fall 2017

(ii) *Other Significant Products*

1. Steven Samuels, Alwan Z. Marceline Egnin, Jesse Jaynes, T.D. Connell, **Gregory C. Bernard**, and Toufic Nashar. (2017). Novel Therapeutic Approach for Inhibition of HIV-1 Using Cell-Penetrating Peptide and Bacterial Toxins. *Journal of AIDS & Clinical Research*. 8(10):737.
2. **Gregory C. Bernard**, Marceline Egnin, Conrad Bonsi, Desmond Mortley, William Witola, Steven Samuels, Caroline Land, and Kathy Lawrence. Efficient Evaluation of Physical and Molecular Plant Immune Responses to Root-knot Nematode Infection in Selected Sweetpotato Cultivars. *In Vitro Cellular & Developmental Biology*. Plant (2016) 52: 437. doi:10.1007/s11627-016-9771-8
3. **Gregory C. Bernard**, Marceline Egnin, Steven Samuels, Conrad Bonsi, Desmond Mortley, William Witola, Caroline Land and Kathy Lawrence. (2015). Host Reactions of Developing Sweetpotato Storage Roots Under Root-knot Nematode Challenge. Department of Agriculture and Environmental Sciences, College of Agriculture, Environment and Nutrition Sciences, Tuskegee University, Tuskegee Alabama, 36088 *In Vitro Cellular & Developmental Biology*. Vole 51. S36 Abstract.ISSN/1071-2690
4. Phenotypic and molecular investigation of developing sweetpotato storage roots under root-knot nematode challenge. **Gregory C. Bernard**, Marceline Egnin, Steven Samuels, William

5. 2016 Awarded Travel Award as Judge for undergraduate research presentations at Annual Biomedical Research Conference for Minority Students
6. 2015 Awarded 1<sup>st</sup> place in Ph.D. student oral presentation at the National Sweetpotato Collaborators Group Meeting, Nashville, TN.

## **Research Summary**