

MOSES ALEXANDER MCDANIEL

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EDUCATION

Master of Science (Biology) 2001

North Carolina Central University
Durham, NC

Thesis title: Studies on the Metabolism of 6-Nitrochrysene and the Formation of DNA Adducts in the Liver, Lung, and Bladder of A/J Mice

Bachelor of Science (Biology) 1996

(minor in biotechnology)
Elizabeth City State University
Elizabeth City, NC

EMPLOYMENT HISTORY

RESEARCH ASSOCIATE [Biotechnology] (September 1998 to Present)

Elizabeth City State University
Elizabeth City, NC

Responsibilities:

- Maintenance of inventory (laboratory supplies and equipment) for the Biology Department
- Establishment and maintenance of insect, mammalian, amphibian, and plant cell/tissue cultures.
- Coordinating completion of biotechnology faculty research projects.
- Supervise and direct student biotechnology research projects as assigned.
- Directs teaching assistants for advanced laboratory classes
- Adjunct Instructor for BIOL 499 – Biological Research. BIOL 155L - Principles of Biology, CHEM 401L & 402L - Biochemistry Labs

EDUCATOR (June 2006 to 2013)

Port Discover: Northeastern N.C.'s Hands-On Science Center, Inc.
Elizabeth City, NC

Responsibilities:

- Serves as the weekend educator for the center.
- Introduced several educational displays, portraying the significance of science and research

BIOLOGIST/INTERNSHIP (August 1997 to August 1998)
Environmental Protection Agency (RTP)
Durham, NC

Responsibilities:

- Performed I.P. (intraperitoneal) injection in mouse animal models.
- Experienced in HPLC analysis.
- Experienced with radioactive labeling applications and TLC (Thin Layer Chromatography)

SUPPLY OFFICER (June 1991 to December 1999)
United States Marine Corps Reserves
Raleigh, NC

Responsibilities:

- Coordinated and participated in the inventory and distribution of military supplies
- Meritoriously promoted to Lance Corporal and Corporal
- Honorably Discharged 1999

PUBLICATIONS

S. Cogbill, T. Faulcon, G. Jones, **M. McDaniel**, G. Harmon, R. Blackmon and M. Young. Adventitious Shoots from Cotyledonary Explants of Rapid-cycling Fast Plants of *Brassica rapa* L. *Plant Cell Tissue Organ Culture*, (2010) 101: 127-133

Margaret Young, Salimah Cogbill, Giera Jones, Travis Faulcon, Kaleena Green, **Moses McDaniel**, Gary Harmon, and Ronald Blackmon. Optimization of Biolistics Parameters in Explants of Rapid-Cycling Fast Plants (*Brassica Rapa L.*) *Journal of the North Carolina Academy of Science*, 124(2), 2008, pp. 58-60

Margaret Young, Leslie Holden, Kaleena Green, Travis Faulcon, **Moses McDaniel**, Ronald Blackmon, Gary Harmon, and Nancy Reichert. Inheritance Studies of the *NPTII* and *Gus* Genes in Transgenic Tobacco (*Nicotiana tabacum*) *Journal of the North Carolina Academy of Science*, 122(2) pp 56-62 2006

H. Banerjee, Z. Hawkins, T. Johnson, S. Eley, A.Alikhan, **M. McDaniel**, I. Singh, and J. Raymond. Identification of a Mouse Orthologue of CED-6 Gene of *Caenorhabditis elegans*. *Plasmid* 49 pp 30-33 2003

Moses A. McDaniel, Gary L. Harmon and Ronald H. Blackmon. (2001) Sodium Butyrate-Induced Changes in Antioxidant Enzymes of Rapid-Cycling Brassica. *Gene Families and Isozymes Bulletin* 34 p. 56.

RESEARCH: SKILLS/EXPERIENCE/INTERESTS

- Extensive experience in PCR, western blots, DNA, RNA and protein biochemistry, molecular & cell biology.
- Experienced in HPLC analysis.
- Experienced with radioactive labeling applications and TLC (Thin Layer Chromatography)
- SOD (Superoxide dismutase) and CAT (Catalase) regulation
- Production of Novel Insect Cell Lines (Entomology)
- Transformation of Medicinal Plants (*Echinacea*)
- Transformation of *Crithidia sp.* with GFP and Ig genes
- Effect of Native African Medicinals on the Growth of Cancer Cells

PROFESSIONAL AFFILIATIONS

Entomological Society of America

REFERENCES:

Dr. Ronald Blackmon 252-335-3240
Dr. Gary Harmon 252-335-3394
Dr. W. Franklin Evans 803-536-7180