

GILBERT KAYANJA

1251 Michigan avenue Columbus OH

Tel: 857-244-5230

kayanja.1@osu.edu

EDUCATION

January 2010 – June 2012

University of Massachusetts Boston
Bachelor of Science in Biochemistry

University of Massachusetts Boston
100 Morrissey Blvd
Boston, MA 02125-3393

June 2006 – December 2009

Bunker Hill Community College

250 New Rutherford Avenue
Boston, MA 02129-2925

RESEARCH EXPERIENCE

Student Research Associate
Biology Department, University of Massachusetts Boston

(Laboratory of Dr. Adán Colón-Carmona)

September 2010 – September 2012
University of Massachusetts Boston

- Studied plant enzymes called Dioxygenases to access their ability to modify polycyclic aromatic hydrocarbons (PAHs).
- Measured gene expression of enzymes to determine importance during PAH stress.
- Met on weekly basis with interdisciplinary team to discuss project progress and future.

Research Intern

Center for Applied Plant Sciences, Ohio State University

(Laboratory of Dr. Erich Grotewold)

November 2012 – present
Ohio State University
206 Rightmire Hall
1060 Carmack Road
Columbus, OH 43210

- Statistical analysis of anthocyanin-profiles from plants under different abiotic stress conditions.
- Elucidate mechanisms responsible for anthocyanin accumulation in the vacuole using biochemical and molecular techniques.

Affiliate, NIH-funded Initiative for Maximizing Student Diversity (IMSD)

University of Massachusetts Boston

September 2011 - August 2012

- Participate in weekly professional development workshops.
- Read and discuss current scientific literature.
- Attend biology department seminars and received travel awards to scientific conferences.

AWARDS AND ACHIEVEMENTS

- Recipient of Best Plant Biology poster at the annual Biochemical Research Conference for Minority Students (ABRCMS). St Louis, Missouri. November 2011.
- Recipient of a Recognition Travel Award from the Minority Affairs Committee (MAC) of the American Society of Plant Biologists (ASPB) for travel to the annual ASPB conference in Austin, Texas, July 2012.
- Affiliate, NIH-funded Initiative for Maximizing Student Diversity Program (September 2011 – August 2012)
- Fellow, NIH-funded Ohio State University Discovery PREP program (September 2012 – September 2013)

LABORATORY SKILLS

PCR; SDS page; Restriction enzyme analysis; Protein purification; Sterile techniques; Arabidopsis propagation; Growing bacteria; Transforming plants; Gateway cloning technique.

PRESENTATIONS

Gilbert Kayanja, Noreen Okwara, Brian Cady, Juan C. Hernández-Vega, and Adán Colón-Carmona. The expression of 2-oxoglutarate-dependent dioxygenase in the plant *Arabidopsis thaliana* and their potential role during phenanthrene stress. New England Science Symposium (NESS), 1st of April 2012. Boston, Massachusetts.

Gilbert Kayanja, Noreen Okwara, Brian Cady, Juan C. Hernández-Vega, and Adán Colón-Carmona. The expression of 2-oxoglutarate-dependent dioxygenase in the plant *Arabidopsis thaliana* and their potential role during phenanthrene stress. Annual Biomedical Research Conference for Minorities (ABRCMS), 12th of November 2011. St Louis, Missouri.

LAB WORK EXPERIENCE

May 2011 - July 2012

Plant Physiology Laboratory Manager

**University of Massachusetts Boston
100 Morrissey Blvd
Boston, MA 02125-3393**

- Clean and prepare materials used in the laboratory so that lab work goes smoothly
- Order reagents in a timely manner
- Prepare solutions and buffers for general use in the laboratory