

The **EXCELLENCE IN CARDIOVASCULAR SCIENCES (EICS) SUMMER RESEARCH PROGRAM FOR DIVERSITY** is funded by an R25 training grant from the National Heart, Lung, and Blood Institute. Drs. Debra Diz and Ann Tallant are the directors of the program, which has provided summer research training for approximately 260 undergraduate students from groups under-represented in the biomedical sciences over the past twenty-four years. Of our former EICS participants who have completed their undergraduate degrees, approximately 30% obtained their professional degrees or are in professional schools and 35% obtained graduate degrees or are in graduate school. Of the students working towards the PhD, approximately 26% are in graduate programs at Wake Forest University.

Supported by:

- **Graduate School of the Arts & Sciences**
Wake Forest University
- **Hypertension & Vascular Research Center**
Wake Forest School of Medicine
- **National Heart, Lung & Blood Institute (EICS)**
- **MARC U*STAR Program**
Winston-Salem State University



2016 EXCELLENCE IN CARDIOVASCULAR SCIENCES (EICS) SUMMER RESEARCH PROGRAM POSTER SYMPOSIUM

July 29, 2016

Poster Symposium
9:30 am - 11:00 am

Certificate Presentation
11:00 am

Commons 1-3, Nutrition Bldg.,
G Floor

PARTICIPANTS

Diego Buitrago (University of Puerto Rico)

Mentor: Giselle Melendez, MD

Internal Medicine –Cardiovascular

"Effects of Doxorubicin on Skeletal Muscle Extracellular Matrix Remodeling in African Green Monkeys"

Beverly Dosso (Winston-Salem State University)

Mentor: David Soto-Pantoja, PhD

Co-Mentors: Yismeilin Feliz-Mosquea, Ashley Smith,
Adam Wilson, & Katherine Cook, PhD
Surgery-Hypertension

"Overcoming Resistance to Cancer Therapy by Targeting CD47"

Lakhia Fuller (Winston-Salem State University)

Mentor: Peter Antinozzi, PhD

Biochemistry

"A Retrospective Analysis of Primary Hypertension Patients"

Michael Hagstrom (Luther College)

Mentor: Rong Chen, PhD

Co-Mentors: Deborah Luessen, MS, Tyler Hinshaw,
Matthew Yeager, & Haiguo Sun, PhD
Physiology & Pharmacology

"Ethanol Impairs 5-HT_{1A} Receptor Internalization"

Asia Hoke (Winston-Salem State University)

Mentor: Liliya Yamaleyeva, MD, MS

Co-Mentors: Tiffaney Bledsoe, & Bridget Brosnihan, PhD
Surgery-Hypertension

"Photoacoustic Imaging of Placental Oxygenation"

Micayla Jones (University of North Carolina at Greensboro)

Mentor: Carol Milligan, PhD

Co-Mentor: Marlena Wosiski-Kuhn

Neurobiology and Anatomy

"Determination of the Optimal Protein Extraction Methods to Examine IL-6 Receptor Expression in the SOD1G93A Mouse Model of ALS"

Emilianna Landry (College of Charleston)

Mentor: Mark Chappell, PhD

Co-Mentors: Nildris Cruz-Diaz, PhD, & Nancy Pirro
Surgery-Hypertension

"Assessment of Potential Approaches to Attenuate Cisplatin-induced Renal Injury in Human Proximal Tubule Cells"

PARTICIPANTS

Sally "Nur" Massry (UNC-Chapel Hill)

Mentor: Nicolle Allred, PhD

Co-Mentors: Jianzhao Xu, MS, Barry Freedman, MD, &
Donald Bowden, PhD
Biochemistry

"Association Analysis of Haptoglobin Duplication Genotypes with Cognition and Cerebral Structure in African Americans with Type 2 Diabetes"

Olaimpe "Bimpe" Olayiwola (Florida A&M University)

Mentor: Katherine Cook, PhD

Co-Mentor: Adam Wilson

Surgery –Hypertension

"Determining the Effect of Fat+ty Acids on Cardiac Endoplasmic Reticulum Stress Signaling"

Meaghan O'Meara (Methodist University)

Mentor: Osvaldo Delbono, PhD

Co-Mentor: Maria Laura Messi, PhD

Gerontology and Geriatric Medicine

"Sympathetic Denervation Extensively Modifies the Skeletal Muscle Transcriptome"

Mary Omotoso (North Carolina A&T State University)

Mentor: Nicole Levi-Polyachenko, PhD

Surgery -Plastic and Reconstructive

"The Effect of Hyperthermia Inducing Nanoparticles and the Release of Gentamicin from a Biodegradable Elastomer on the Growth of Staphylococcus Aureus"

Nnamdi Osakwe (North Carolina Central University)

Mentor: Jeffrey Willey, PhD

Co-Mentors: Joseph Moore, BS & Andy Kwok, BS

Radiation Oncology

"The Effects of Muscadine Grape Extract and Angiotensin-(1-7) on Biomarkers of Fibrosis in Skeletal Muscle After Irradiation"

We wish to thank the mentors for their outstanding contributions to the success of the summer training programs and the students for their participation.