

SCTR TL1 Predoctoral Clinical & Translational Research Training Program

Current & Previous Scholars:

Joseph Alge MD, PhD

Discovery of Graft-Versus-Host Disease Biomarkers by Proteomic Analysis of Plasma Exomes

Mentor: John Arthur, MD, PhD

Fellow, Pediatric Nephrology

Baylor College of Medicine

Melissa Allen, MD

Mentor: Kevin Delaney, MD, MBA

Fellow, Pediatric Orthopedics

Baylor College of Medicine

Kelly Anderson, PhD

Optimizing Post-Stroke Motor Learning Treatment Conditions

Mentor: Michelle Woodbury, PhD, OTR/L

Assistant Professor, Occupational Therapy

Eastern Carolina University

Jazmine Arroyo

Mentor: Bonnie Martin-Harris, PhD

Daniel Baer

Mild Cognitive Impairment and Alzheimer's Disease: Progression in Brain Function and Etiological Links

Mentor: Andrew Lawson, PhD

Pre-doctoral Candidate

MUSC

John Barrows

Personalized Therapy for BRCA 1-mutant Tumors

Mentor: David Long, PhD

Pre-doctoral Candidate

MUSC

David Bastian

Targeting JAK2 to Control T-Cell Alloreactivity and Graft-versus-Host Disease

Mentor: Xue-Zhong Yu, MD, MS

Pre-doctoral Candidate

MUSC

Alyson Black

High-Throughput Glycoprotein Biomarker Discovery by MALDI Mass Spectrometry Imaging of Antibody Arrays for Serum Biomarkers of Hepatocellular Carcinoma

Mentor: Anand Mehta, PhD

Pre-doctoral Candidate

MUSC

Andrea Boan, PhD

Mentor: Daniel Lackland, PhD

Assistant Professor, Pediatrics

MUSC

Raymond Boaz

Multivariate Air Pollutant Exposure Prediction and Characterization

Mentor: Andrew Lawson, PhD

Pre-doctoral Candidate

MUSC

Mary (Catherine) Bridges

The Adherens Junctions Suppress Pro-Tumorigenic Colon Cell Transformation Via Long Non-Coding RNAs

Antonis Kourtidis, PhD

Pre-doctoral Candidate

MUSC

Catherine Bridges

Microglial Contributions to MEF2C Haploinsufficiency Syndrome

Mentor: Christopher Cowan, PhD

Pre-doctoral Candidate

MUSC

Guillermo De Angulo, MD

Mentor: Robert Adams, MD

Clinical Instructor, Pediatrics

Weill-Cornell

Danielle Desjardins, MD, PhD

Mitochondrial Dysfunction in Degenerative Pathologies

Mentor: Zsolt Ablonczy, PhD

Resident, Anesthesiology & Perioperative Medicine

Oregon Health & Science University

Maria Dipiro, PhD

Aerobic Exercise to Treat Depression Following Incomplete SCI

Mentor: James Krause, PhD

Post-doctoral Scholar, Rehabilitation Research

MUSC

Ravyn Duncan

Enhancing Anti-myeloma T Cell Activity by Inhibiting FOXP3 Function

Mentor: Nathan Dolloff, PhD

Pre-doctoral Candidate

MUSC

Clayton "Tyler" Ellis, MD

Effect of Seat Belt Use and Impact of Mandatory Seat Belts Laws on Motor Vehicle-Related Health and Economic Outcomes

Mentor: Nester Esnaola, MD

Fellow, Colorectal Surgery

University of Massachusetts Medical School

Victor Fresco, PhD

Fibulin-1 Dysregulation of Fgf8 Signaling in DiGeorge Syndrome

Mentor: W. Scott Argraves, PhD

Caroline Fugle, PhD

The Role of TGFB in B-Cell Biology and Autoimmunity

Mentor: Zihai Li, MD, PhD

Post-doctoral Scholar, Surgery

MUSC

Kendrea Garand, PhD

Quantifying Normal Swallow Physiology Across the Adult Lifespan

Mentor: Bonnie Martin-Harris, PhD

Assistant Professor, Speech Pathology & Audiology

University of South Alabama

George "Russell" Glenn, MD, PhD

Assessment of Ischemic Stroke with Advanced Diffusion Magnetic Resonance Imaging

Mentor: Jens Jensen, PhD

Intern, Internal Medicine

Emory University

David Gray, MD

Cost of Care for Systemic Lupus Erythematosus: Effect of Disability

Mentor: Jim Oates, MD

Physician, Rheumatology/Internal Medicine

BayCare

Jordan Gruber, PhD

The Role of Dihydroxyquinoline (DHQ) in Pseudomonas Aeruginosa Pathogenicity

Mentor: Yong-Mei Zhang, PhD

Microbial Business Manager

DuPont

Myroslawa Happe

Age-related Changes in B-cells Impact Immune Responses to Pneumococcal Vaccination in Aging HIV+ Individuals

Mentor: Maria Anna Westerink, MD

Pre-doctoral Candidate

MUSC

David Hartmann

A Potential New Role for Pericytes in Functional Hyperemia

Mentor: Andy Shih, PhD

Pre-doctoral Candidate

MUSC

Charles Hatcher, MD

Mentor: Michelle Macias, MD

Daniel Herr

Elucidating the Effects of Class I and Iia HDACs on GATA4 Regulation in Heart Failure

Mentor: Donald Menick, PhD

Pre-doctoral Candidate

MUSC

Casey Holmes, MD

Neuroprotective Role of Melatonin Receptors in Spinal Cord Injury

Mentor: Steven Rosenzweig, PhD

Resident, Family Medicine

Self-Regional Healthcare

Jennifer Hunnicutt, PhD

Central and Peripheral Neuromuscular Adaptations as Indicators of Functional Recovery Following Anterior Cruciate Ligament Reconstruction

Mentor: Chris Gregory, PhD

Post-doctoral Scholar, Orthopedics

Emory University

Stephanie Jones

Understanding Nicotine Dependence and Smoking Cessation Failure: the Role of Genetic Variation

Mentor: Linda Kelemen, MSc, ScD

Pre-doctoral Candidate

MUSC

Serena-Kaye Kinley-Cooper

Enhancing Motor Recovery Following MCAo in Aged Rats

Mentor: Deanna Adkins, PhD

Pre-doctoral Candidate

MUSC

Joy Kirkpatrick

Use of KDM4B Inhibitors for Prevention of Periodontal Disease Progression

Mentor: Patrick Woster, PhD

Pre-doctoral Candidate

MUSC

Craig Kutz, MD, PhD

Targeting Epigenetic Enzymes as Potential Therapeutics in Cardiac Ischemia-Reperfusion Injury

Mentor: Patrick Woster, PhD

Resident, Emergency Medicine

University of California San Diego

Daniel Lench

Interaction of Depression and Sensorimotor Function: A Study Comparing Healthy Individuals and Chronic Stroke Patients

Mentor: Colleen Hanlon, PhD

Pre-doctoral Candidate

MUSC

Anthony Leonard, MD, PhD

Mitochondrial Protective Mechanisms in the Neurodegenerative Process of Retinitis Pigmentosa

Mentor: Craig Beeson, PhD

Resident, Ophthalmology

Washington University School of Medicine

Sarah Logan, PhD

Psychotropic Therapy for Children with Autism Spectrum Disorders

Mentor: Joyce Nicholas, PhD

Post-doctoral Scholar, Public Health Sciences

MUSC

Jordan Magarik, MD

Mentor: Daniel Lackland, PhD
Resident, Neurological Surgery
Vanderbilt

Katlyn McGrattan, PhD

Validation of a Noninvasive Assessment Method for Feeding and Swallowing Impairment in Infants with Cardiac Conditions
Mentor: Bonnie Martin-Harris, PhD
Post-doctoral Scholar, Otolaryngology
MUSC

Danira Medunjanin

Survival and Healthcare Patterns of Elderly Veterans with Advanced CKD
Mentor: Kelly Hunt, PhD
Pre-doctoral Candidate
MUSC

Kristin Midgett, PhD

The Effects of PFOS (Perfluorooctane sulfonic acid) on the Immune System and its Possible Role in Triggering Systemic Lupus Erythematosus (SLE)
Mentor: Diane Kamen, MD, MSCR

Xinh-Xinh Nguyen

The Role of Lysyl Oxidase in Systemic Sclerosis
Mentor: Carol Feghali-Bostwick, PhD
Pre-doctoral Candidate
MUSC

Charles Reese III

Monocyte/Fibrocyte Lineage in Fibrotic Disease: Universal and Tissue-Specific Features
Mentor: Stanley Hoffman, PhD
Pre-doctoral Candidate
MUSC

Owen Reeves, PharmD

*Dosing with d-Methylphenidate (Focalin) in Humans with Avoid the PK/PD Interactions dl-Methylphenidate (Ritalin) has with Alcohol**
Mentor: Kennerly Patrick, PhD
Pharmacist, Publix
Greeneville, SC

Brian Riesenber

Role of Platelets in Dampening Antitumor Immunity
Mentor: Yi Yang, PhD
Pre-doctoral Candidate
MUSC

Douglas Roberts-Wolfe

LTP in the Nucleus Accumbens Shell in Cocaine Extinction
Mentor: Peter Kalivas, PhD

Pre-doctoral Candidate
MUSC

Halley Rycenga

The Role of p97 in DNA Crosslink Repair

Mentor: David Long, PhD

Pre-doctoral Candidate

MUSC

Clarence "Trey" Schiltz, PharmD

Incidence and Impact of Cardiovascular Disease on Graft Function and Survival in Kidney Transplant Recipients: What is the Role of Race?

Mentor: Kenneth Chavin, MD, PhD

District Leader, CVS Pharmacy

Charlotte, NC

Steven Schutt

Identifying the Role and Immunobiological Mechanisms of Fli-1 Mediated Pathogenicity in Chronic Graft-versus-Host Disease

Mentor: Xue-Zhong Yu, MD

Pre-doctoral Candidate

MUSC

Jennifer Scott, MD, PhD

Estrogen Receptor Alpha Modulation of Type I Interferon Production in Plasmacytoid Dendritic Cells Derived from Lupus Patients

Mentor: Gary Gilkeson, MD

Resident, Internal Medicine

MedStar Health

Jamie Speiser, PhD

Random Forest Prognosis Model for Repeatedly Measured Binary Patient Outcomes

Mentor: Valerie Durkalski-Mauldin, PhD

Assistant Professor, Biostatistical Sciences

Wake Forest University

Brandi Stevens, MD

Determining the Role of PBDEs and PFAAs as Environmental Triggers of Autoimmunity in Genetically at-risk Individuals

Mentor: Diane Kamen, MD

Assistant Professor, Pediatric Rheumatology

Riley Hospital for Children

Danielle Stevens

Prenatal and Early Life Exposures and Subsequent Cardiometabolic Risk

Mentor: Kelly Hunt, PhD

Pre-doctoral Candidate

MUSC

Erik Strungs

Mentor: Louis Luttrell, MD, PhD

Pre-doctoral Candidate

MUSC

April Taylor-Clift, PhD

Mentor: Michael Saladin, PhD
Clinical Psychologist, Trauma Recovery
James A. Haley Veterans Affairs Hospital

Jonathan Turner

Design of Novel Penicillin Binding Protein 2 (PBP2) Inhibitors as Drug Candidates for Penicillin- and Cephalosporin-Resistant Neisseria Gonorrhoeae

Mentor: Christopher Davies, PhD
Pre-doctoral Candidate
MUSC

Caroline Vrana-Diaz

Gender Equity and HIV Self-testing in Kenya and Uganda

Mentor: Jeffrey Korte, PhD
Pre-doctoral Candidate
MUSC

Patricia Watkins, MD, PhD

Mentor: Joseph Jenrette, MD
Fellow, Neonatology
University of Iowa

Jason Wheeler, MD

Chemotherapy Sensitivity of Esophageal Adenocarcinoma

Mentor: Carolyn Reed, MD
Resident, Internal Medicine
Cleveland Clinic

Lee Wheless, MD, PhD

Mentor: Anthony Alberg, PhD
Resident, Dermatology
Vanderbilt

Carly Williams

The Regulation of c-Casitas B-Lineage Lymphoma (c-Cbl) by Hormonally Up-regulated Neu-associated Kinase (HUNK) in Epidermal Growth Factor Receptor (EGFR) Degradation in Triple-Negative Breast Cancer (TNBC)

Mentor: Elizabeth Yeh, PhD
Pre-doctoral Candidate
MUSC