

WFUBMC Participating Faculty Members: Research Faculty

Name	Degree	Rank	Primary Department or Program	Research Interest
Allred, Nicholette D.	PhD	Assoc. Prof.	Biochemistry	African Americans, Type 2 Diabetes Mellitus, Genetic Predisposition to Disease, Hispanic Americans, Insulin Resistance, Metabolomics
Almeida-Porada, Graca D.	MD, PhD	Prof.	Institute for Regenerative Medicine	Autoimmune Diseases, Fetal Diseases, Gene Therapy, Inborn Genetic Diseases, Hematopoietic Stem Cell Transplantation
Baker, Laura D.	PhD	Assoc. Prof.	Gerontology and Geriatric Medicine	Aging, Alzheimer Disease, Caloric Restriction, Diabetes, Cognitive Impairment
Brinkley, Tina E.	PhD	Asst. Prof.	Gerontology and Geriatric Medicine	Adiposity, Aging, Alzheimer Disease, Arteriosclerosis, Caloric Restriction, Cardiovascular Risk Factors
Chappell, Mark C.	PhD	Prof.	Surgery/ Hypertension and Vascular Research; Cardiovascular Sciences Center; Physiology and Pharmacology	Renal mechanisms of hypertension
Chen, Rong	PhD	Asst. Prof.	Physiology & Pharmacology	The molecular mechanisms for changes in neurotransmitter transporters and receptors in CNS disorders using genetic, viral, and cellular approaches
Cline, J. Mark	DVM, PhD, DACVP	Prof.	Comparative Medicine	Cancer, Radiation effects, NHP pathology
Constantinidis, Christos	PhD	Prof.	Neurobiology & Anatomy	Neurophysiology of cognitive functions
Cook, Katherine L.	PhD	Asst. Prof.	Surgery/ Hypertension and Vascular Research; Cancer Biology	Breast Cancer, Obesity, Therapeutic resistance, & Microbiome interactions
Czoty, Paul W.	PhD	Prof.	Physiology & Pharmacology	Non-human primate models of alcohol and drug addiction

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Debinski, Waldemar	MD, PhD	Prof.	Cancer Biology; Radiation Oncology; Microbiology/ Immunology & Neurosurgery	Primary brain tumors of dismal prognosis, malignant gliomas.
Diz, Debra I.	PhD	Prof., Director	Surgery/ Hypertension & Vascular Research; Physiology & Pharmacology; Cardiovascular Sciences Center, CTSI	Cardiovascular neuroscience; angiotensins; hypertension, aging
Drenan, Ryan M.	PhD	Assoc. Prof.	Physiology & Pharmacology	Neuropharmacology of nicotine
Ferris, Mark J.	PhD	Asst. Prof.	Physiology and Pharmacology; Center for Research in Substance Use and Addiction	Systems and behavioral neuroscience of catecholamine and cholinergic signaling
Furdui, Cristina M.	PhD	Prof.	Molecular Medicine	Molecular mechanisms linking redox balance to disease development and treatment, animal models
Godwin, Dwayne	PhD	Prof., Dean	Neurobiology and Anatomy Neurology; Physiology and Pharmacology; Wake Forest Institute for Regenerative Medicine	Neuroscience, Neuro-imaging, Neurophysiology Epilepsy, Addiction, Traumatic Brain Injury, PTSD
Haas, Karen M.	PhD	Assoc. Prof.	Microbiology & Immunology	Understanding how B lymphocytes are regulated to produce antibodies
Hollis, Thomas	PhD	Prof.	Biochemistry	Nucleic acid metabolism
Howlett, Allyn	PhD	Prof.	Physiology and Pharmacology; Surgery/ Hypertension and Vascular Research; Center for Research in Substance Use and Addiction	Biochemical neuropharmacology of cannabinoid receptors and cellular signaling

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Jones, Sara R.	PhD	Prof.	Physiology & Pharmacology; Center for Research in Substance Use and Addiction	Addiction behavioral neuropharmacology; mono-amine neuro-chemistry
Kavanagh, Kylie	PhD	Assoc. Prof.	Pathology – Comparative Medicine	Aging and Cellular Stress/Resistance/ Chaperone Proteins; Determinants Using Non-human Primate Models
Kishida, Kenneth	PhD	Assist. Prof.	Physiology and Pharmacology; Neurosurgery; Biomedical Engineering	Neurobiology of Human Decision-making
Ko, Mei-Chuan	PhD	Prof.	Physiology and Pharmacology	Pharmacotherapy for pain and substance use disorder
Laurienti, Paul	PhD	Prof.	Radiology	Functional connectivity during alcohol abuse
Lowther, W. Todd	PhD	Assoc. Prof.	Biochemistry; Comprehensive Cancer Center	Structural biology, biochemistry, and chemical biology of proteins in redox biology, metabolism, and receptor signaling
Ma, Tao	PhD	Assoc. Prof.	Internal Medicine Gerontology & Geriatric Medicine	Disentangling normal brain aging from preclinical disease
Martin, Thomas J.	PhD	Prof.	Anesthesiology	Processes underlying pain and addiction, with a focus on behavior and circuitry in the brain using rodent models
McClain, Donald	MD, PhD	Prof., CTSI Director	Endocrinology CTSI	Type 2 diabetes, obesity, metabolism, rodent models
McCool, Brian A.	PhD	Prof.	Physiology & Pharmacology; Center for Research in Substance Use and Addiction	Cellular neurophysiology & neuropharmacology
Nader, Michael A.	PhD	Prof.	Physiology and Pharmacology (Radiology) (Primate Center)	Behavioral Neuropharmacology Nonhuman primate models of substance abuse Brain imaging
Nicklas, Barbara J.	PhD	Prof.	Gerontology and Geriatric Medicine	Aging; body composition; exercise; inflammation; obesity; weight loss
Olivier, Michael	PhD	Prof.	Internal Medicine/ Molecular Medicine	Obesity and cardio-metabolic complications; Aging; Maternal-Fetal Health; DNA-binding proteins; Hearing loss; Proteomics, Metabolomics

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Opara, Emmanuel C.	PhD	Prof.	Wake Forest Institute for Regenerative Medicine, Biomedical Engineering, Center on Obesity, Diabetes & Metabolism	Bioartificial organs and Regenerative engineering
Parks, John	PhD	Prof.	Internal Medicine/ Molecular Medicine	Lipid Mobilization & Transport
Poole, Leslie B.	PhD	Prof.	Biochemistry; Center for Structural Biology; Center for Redox Biology and Medicine	Thiol peroxidase mechanisms and biology, redox regulation in signaling
Raab-Graham, Kimberly	PhD	Assoc. Prof.	Physiology and Pharmacology	Local Protein synthesis in neurons in neurodegenerative disease, alcohol use disorder, and drug abuse
Salinas, Emilio	PhD	Prof.	Neurobiology and Anatomy	Analysis of single-neuron and neural-network dynamics using mathematical methods and computer simulations
Vidi, Pierre A.	PhD	Asst. Prof.	Cancer Biology	Cancer prevention; obesity; DNA repair
Watabe, Kounosuke	PhD	Prof.	Cancer Biology	Tumor progression and metastatic roles of tumor microenvironment, cancer stem cells and non-coding RNAs
Weiner, Jeffrey	PhD	Prof.	Physiology and Pharmacology; Center for Res. Substance Use and Addiction.	Behavioral and neural correlates associated with alcohol addiction and comorbid mood disorders.
Whitlow, Christopher T.	MD, PhD	Prof.	Radiology	Advanced Neuroradiology MRI Techniques, Neuroradiology, Radiology