

### PRIME Participating Research Training Faculty Members

Name/Degree(s)	Rank	Primary (& Secondary) Appointment(s)	Research Interest
Bishop, Colin, PhD	Professor	Wake Forest Institute for Regenerative Medicine (Molecular Medicine & Translational Science)	Reproductive Genetics
Bleecker, Eugene, MD	Professor (Director)	Ctr for Genomics & Personalized Medicine Research (Internal Medicine-Pulmonary, Molecular Medicine & Translational Science)	Translational approaches in respiratory medicine; pathogenesis and disease heterogeneity of asthma and COPD; genomics of asthma, allergy and COPD susceptibility and progression; pharmacologic interventions and pharmacogenetics of asthma and CPD.
Bowden, Donald, PhD	Professor	Biochemistry and Internal Medicine (Ctr for Genomics & Personalized Medicine Research; Endocrinology & Metabolism; Molecular Medicine & Translational Science)	Genetic analysis of diabetes, especially type 2 diabetes (non-insulin dependent diabetes mellitus, adult onset diabetes) and complications of diabetes such as diabetic nephropathy and cardiovascular disease
Brosnihan, K. Bridget, MS, PhD	Professor	Surgical Sciences (Physiology/Pharmacology, Obstetrics & Gynecology; Molecular Medicine & Translational Science Institute, Internal Medicine, Regenerative Medicine)	Neuroendocrine regulation of blood pressure, pregnancy and preeclampsia, renin-angiotensin system, vascular biology
Chappell, Mark C., BS, PhD	Professor	WFU Hypertension and Vascular Research Center WFU Physiology and Pharmacology Department WFU Molecular Medicine Program	Cardiovascular Regulation Mechanism of renal injury Sex differences in cardiovascular disease Functional characterization of intracellular/nuclear Angiotensin system
Chen, Yong, PhD	Professor	Cancer Biology (P)	Genetic basis and lipid signaling in prostate cancer development, and effect of dietary fat on prostate cancer development in genetically predisposed populations

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Christ, George, PhD	Professor	Wake Forest Institute for Regenerative Medicine, Urology (Virginia Tech-Wake Forest University School of Biomedical Engineering and Sciences, and Molecular Medicine & Translational Science)	Functional Genomics; establishing a verifiable link between changes in gene expression and alterations in cell/ organ/ tissue function/ dysfunction applied to understanding, diagnosis and treatment of smooth muscle diseases/ disorders
Cline, J Mark, DVM, PhD	Professor	Wake Forest School of Medicine, Department of Pathology/Comparative Medicine, Translational Science Institute, Comprehensive Cancer Center, Hypertension Center	Tissues at risk of cancer and cancer cell populations, using histopathologic immunohistochemical, histomorphometric and molecular biologic techniques, radiation countermeasures in nonhuman primates
Coghill, Robert, PhD	Associate Professor	Neurobiology and Anatomy  Member – Program in Neuroscience	Delineation of human central nervous system mechanisms of pain by both functional imaging and psychophysical techniques
Constantinidis, Christos PhD	Associate Professor	WFU Neurobiology & Anatomy Department (WFU Primate Center)	Neural basis of memory, attention, visual processing
Dawson, Paul A, PhD	Professor	Wake Forest University School of Medicine, Internal Medicine Department, GI Section (WFSM Pathology Department, Lipid Sciences Section)	Transporters involved in bile acid and xenobiotic metabolism; Gastrointestinal and metabolic diseases; Drug Absorption Disposition Metabolism Excretion
Deadwyler, Sam, PhD	Professor	Wake Forest University School of Medicine, Physiology & Pharmacology	Electrophysiology and neuroimaging
Debinski, Waldemar, MD, PhD	Professor	Neurosurgery (Radiation Oncology; Cancer Biology; Molecular Medicine & Translational Science)	Molecular targeting of gliomas. Exploration of existing or new, i] specific targets, ii] vehicles, and iii] catalysts or mechanisms that will allow visualization and/or elimination of glioma cells

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Diz, Debra, PhD	Professor	General Surgery (Physiology and Pharmacology Centers and Institutes: Director, Hypertension and Vascular Research Center, Member Brain Tumor Center of Excellence, Translational Science Institute, Translation Science Center, (Reynolda), Maya Angelou Center for Health Equity, Center for Diabetes Research	Neural control of the circulation and autonomic function, hypertension and metabolic syndrome, renin-angiotensin system, brain – kidney interactions
Furdui, Cristina, PhD	Associate Professor	Internal Medicine -Molecular Medicine; (Translational Science Institute; Biochemistry; Molecular Medicine & Translational Science)	Dynamic analysis of signaling events (protein phosphorylation and oxidation) at molecular and cellular level using quantitative, mass spectrometry based proteomics experiments; rapid enzyme kinetics
Gallagher, Patricia E, PhD	Professor	WFU Hypertension and Vascular Research Center WFU Physiology and Pharmacology Department WFU Cancer Biology Department WFU Molecular Medicine and Translational Sciences Program WFU Comprehensive Cancer Center	Regulation of cell growth Molecular biology of renin-angiotensin system Signal transduction by angiotensin peptides Cancer therapeutics
Godwin, Dwayne, PhD	Professor	Neurobiology & Anatomy (Physiology/Pharmacology; Molecular Medicine & Translational Science) Interim Dean of the Graduate School and Director Office of Post-doctoral Affairs	Cortical feedback in vision; childhood epilepsy; molecular physiology of T-type calcium channels
Hampson, Robert, PhD	Associate Professor	WFSM, Physiology and Pharmacology Department	Neurophysiology memory and cognition and cannabinoid drugs
Hegde, Ashok, PhD	Associate Professor	Neurobiology and Anatomy Member – Program in Neuroscience Member – Molecular Genetics Program	Molecular and neural mechanisms underlying long-term olfactory memory and synaptic plasticity/memory impairment in neurodegenerative diseases
Howlett, Allyn, PhD	Professor	WFSM Physiology and Pharmacology Department (WFSM Translational Sciences Institute; WFSM Hypertension and Vascular Research Center Adjunct Professor, WSSU Physical Therapy Department)	Biochemical and neuropharmacology of cannabinoid receptors, and signal transduction of addiction treatments

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Jones, Sarah, PhD	Professor	WFU Department of Physiology and Pharmacology WFU Primate Center, Institute for Regenerative Medicine	Behavioral neuropharmacology Neurochemistry of monoamines Neuropharmacology of addiction
Kim-Shapiro, Daniel B., PhD	Professor	WFU - Physics (Molecular Medicine & Translational Science)	Nitric Oxide interaction in health, disease, and therapeutics.
Lee, Sang Jin, PhD	Assistant Professor	Wake Forest Institute for Regenerative Medicine, Molecular Medicine and Translational Science (WFU Graduate School of Arts & Science)	Development and fabrication of biomaterial system for tissue/organ reconstruction
McCall, Charles, MD	Professor and Director	Translational Science Institute; Internal Medicine-Molecular Medicine (Microbiology and Immunology; Internal Medicine-Infectious Diseases and Pulmonary, Critical Care, Allergy, Immunologic Medicine; Molecular Medicine & Translational Science)	The molecular events that control the inflammatory components of innate immunity
McCool, Brian, PhD	Associate Professor	WFSM Dept. Physiology and Pharmacology (WFSM Primate Center; WFSM Translational Center for the Neurobehavioral Study of Alcohol)	Neurophysiology and neuropharmacology; chronic drug exposure and modulation of emotional brain centers
McPhail, Linda, PhD	Professor	Biochemistry (Section on Infectious Diseases, Section on Molecular Medicine – Department of Medicine; WFU Translational Science Institute; WFU Women’s Health Center of Excellence; Molecular Medicine & Translational Science)	Regulation of NADPH oxidase (NOX) enzymes
Meyers, Deborah, PhD	Professor	Ctr for Genomics & Personalized Medicine Research/ Internal Medicine (Molecular Medicine & Translational Science)	Translational approaches in respiratory medicine; positional cloning, genotyping, linkage and association analysis; gene mapping in common complex diseases as well as in mendelian disorders; genomics of asthma susceptibility and progression
Nader, Michael A, PhD	Professor	WFSM Department of Physiology and Pharmacology (WFSM Department of Radiology) (WFU Primate Center)	Behavioral Neuropharmacology Nonhuman primate models of substance abuse Brain imaging

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Opara, Emmanuel C., PhD	Professor	Wake Forest Institute for Regenerative Medicine, (Molecular Medicine, Translational Virginia Tech-Wake Forest University School of Biomedical Engineering and Sciences; Molecular Medicine & Translational Science)	Tissue engineering in islet transplantation
Parks, John, PhD	Professor	Pathology/Lipid Sciences (Translational Science Institute; Molecular Medicine & Translational Science)	Atherosclerosis/thrombosis, diabetes, education/training
Porrino, Linda, PhD	Professor & Chair	WFSM Department of Physiology and Pharmacology	Behavioral pharmacology of substance abuse
Ronca, April E., PhD	Professor	Obstetrics & Gynecology (Molecular Medicine & Translational Science)	Animal models of obstetric complications; small animal imaging; prenatal neurodevelopment; maternal-offspring interactions
Shively, Carol A., PhD	Professor	Department of Pathology/Comparative Medicine Section (Cross/Joint Appointments: Physiology & Pharmacology; and Psychology, Wake Forest University) Women's Health Center of Excellence for Research, Leadership, Education, Sticht Center on Aging, Translational Science Institute, Wake Forest Primate Center, Center for Integrative Medicine	Social and behavioral influences on health, particularly obesity, metabolic syndrome, cardiovascular disease, and depression in women
Soker, Shay, PhD	Professor	Wake Forest Institute for Regenerative Medicine (Molecular Medicine & Translational Science)	Molecular and cellular biology of the vascular system; Stem and progenitor cell biology and genomics; angiogenesis
Stanford, Terrence PhD	Professor	Neurobiology and Anatomy Member Program in Neuroscience	Understanding the interactions between sensation, action and cognition within the primate brain

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Stein, Barry, PhD	Professor	Chair - Neurobiology and Anatomy Professor – Neurology Affiliate Professor – Women’s Health Center of Excellence Affiliate Professor of Physiology – Medical College of VA Member – Program in Neuroscience	Understanding the neural basis by which the brain can integrate information from multiple senses and how early sensory experiences craft the underlying neural circuits
Tallant, E. Ann, PhD	Professor	General Surgery (Hypertension); (Physiology and Pharmacology)	Regulation of Cell Growth
Weiner, Jeff L., PhD	Professor	WFSM Department of Physiology and Pharmacology WFSM Regenerative Medicine WFSM Program in Neuroscience	Neurobiology of alcohol abuse, GABA receptor neurophysiology
Yoo, James MD, PhD	Professor, Associate Director/CSO	Wake Forest Institute for Regenerative Medicine, (Urology, Physiology and Pharmacology, Virginia Tech-Wake Forest University School of Biomedical Engineering and Sciences; Molecular Medicine & Translational Science)	Clinical translation of tissue engineering technologies and cell-based therapies