

Department of Medicine faculty with current grants from R and K mechanisms as of August 2021.

Investigator	Division	Project	Grant
Gerald S. Bloomfield Marat Fudim	Cardiology	Pathways to cardiovascular disease prevention and impact of specialty referral in under-represented racial/ethnic minorities with HIV Connection Diseasement and Salonebite Name Medication in Chronic Host Exiting 1	R01 K23
Michael D. Gunn	Cardiology Cardiology	Congestion Phenotypes and Splanchnic Nerve Modulation in Chronic Heart Failure Generation of antibodies specific for optimal non-HRP2 malaria diagnostic antigens	R21
Christopher Holley	Cardiology	SnoRNA-guided modifications of mRNA	R01
Christopher Holley William F. Kraus	Cardiology	The Role of RNA Modifications in Heart Failure	R01 R01
Yongmei Liu	Cardiology Cardiology	Skeletal Muscle Molecular Drug Targets for Exercise-induced Cardiometabolic Health Obesity-Related Epigenetic Changes and Type-2 Diabetes	R01
Yongmei Liu	Cardiology	A Longitudinal Epigenetic Study of Atherosclerosis	R01
Robert W. McGarrah III	Cardiology	The Branched Chain Ketoacid Dehydrogenase Kinase-Phosphatase System as a New Regulatory Node in Myocardial Fuel Section	K08
Manesh R. Patel Sudarshan Rajagopal	Cardiology Cardiology	BEST-VIVA Registry (vCLI) Biasing CXCR3 Signaling to Modulate the Inflammatory Response	R01
Howard A. Rockman	Cardiology	Mechanisms of Maladaptation in Heart Failure	R01
Paul B. Rosenberg	Cardiology	STIM1 and metabolic flexibility	R01
Svati H. Shah	Cardiology	Inflammatory and Metabolic Biomarkers in Cardiovascular Complications with SARS-CoV-2	R21
Sudha Shenoy Sudha Shenoy	Cardiology Cardiology	Regulation of Vascular Inflammatory Signaling by the Deubiquitinase USP20 Regulation of myocardial GPCRs by USP20 in normal and hypertrophied heart	R01 R01
Monique L. Starks	Cardiology	Evaluation of the Requirements and Critical Features of a Drone-Deployed AED Network to Improve Community-Level Survival after OHCA	K23
Jonathan A. Stiber	Cardiology	Anti-Atherogenic Mechanisms of Drebrin	R01
S. Munir Alam Jonathan Campbell	DHVI Endocrinology	Antigen recognition and activation of B-cell receptors of HIV-1 broadly neutralizing antibodies Novel metabolic actions of GIP	R01
Mark Herman	Endocrinology	The Role of ChREBp in Fructose Induced Metabolic Disease	R01
Matthew D. Hirschey	Endocrinology	Studies on the Mechanisms by which SIRT5 Regulates Aging and Disease	R01
Matthew D. Hirschey	Endocrinology	Post-Translational and Epigenetic Control of Branched-Chain Amino Acid Metabolism	R01
Matthew D. Hirschey Richard H. Lee	Endocrinology Endocrinology	Determining the Sub-Cellular Organelles that Link Lipid Signaling and Epigenetics Metabolomic & Radiographic Markers of Fracture Risk Among Older Adults with Diabetes	R21 K23
Deborah Muoio	Endocrinology	Mechanisms of lipid-induced bioenergetic stress in muscle	R01
Diego Bohorquez	Gastroenterology	The efferent synapse in enteroendocrine cells	R21
Anna Mae Diehl	Gastroenterology	TNF Alpha and Recovery from Alcoholic Liver Injury	R01
Anna Mae Diehl Katherine Garman	Gastroenterology Gastroenterology	Hedgehog Signaling and Adult Liver Regeneration The role of gastrin in esophageal submucosal gland acinar ductal metaplasia	R01
Rodger A. Liddle	Gastroenterology	The role of gut endocrine cells in Parkinson's Disease The role of gut endocrine cells in Parkinson's Disease	R01
Rodger A. Liddle	Gastroenterology	Mechanisms of mechanically-induced acute pancreatitis	R01
Rodger A. Liddle	Gastroenterology	Mechanisms of Pancreatic Fibrosis Metabolic regulation of nancreatitie	R01 R01
Rodger A. Liddle Jatin Roper	Gastroenterology Gastroenterology	Metabolic regulation of pancreatitis Inhibition of CaMKK2 sensitizes rectal cancers to radiation therapy	R01 R21
Jatin Roper	Gastroenterology	Ultra-bright fluorescent nanoparticles for colorectal adenoma detection	R21
Keisha Bentley-Edwards	General Internal Medicine	Religion, Spirituality and CVD Risks: A Focus on African Americans	R01
Nrupen Bhavsar Nicole Depasquale	General Internal Medicine General Internal Medicine	Addressing Bias from Missing Data in EHR Based Studies of CVD Supporting Patients and Family Care Partners to Manage Chronic Kidney Disease Together	K01
Susanne B. Haga	General Internal Medicine	Supporting relients and refinity Care retainers to manage chronic councy Disease Together Preparing Genetic Counselors for Genomic Medicine Research	R25
Nia Mitchell	General Internal Medicine	Changes in Weight and Physical Function for Older African American Women in National, Peer-Led, Community-Based Weight Loss Program	R01
Christopher B. Bowling	Geriatrics	Functional Limitations and Disability Among Middle-Aged Adults	R01
Christopher B. Bowling Daniel Parker	Geriatrics Geriatrics	Sustained blood pressure control and progression of multimorbidity Healthy Skeletal Muscle, Healthy Brain: Are Kynurenine Metabolites the Link?	R01 R03
Juliessa M. Pavon	Geriatrics	Deprescribing Central Nervous System Medications in Hospitalized Older Adults	K23
Patrick M. Sullivan	Geriatrics	A Novel Animal Model of Late Onset Alzheimer's Disease	R21
Gregory A. Taylor	Geriatrics	IRGM proteins as regulators of inflammation	R01 R01
Nelson J. Chao Yubin Kang	Hematologic Malignancies and Cellular Therapy Hematologic Malignancies and Cellular Therapy	Patient-centered home-based hematopoietic stem cell transplantation Effects of PPAR agonists on response to immunomodulatory agents in patients with multiple myeloma	R21
Stefanie Sarantopoulos	Hematologic Malignancies and Cellular Therapy	Pathological B Cells: Novel Strategies to Prevent and Treat Chronic GVHD	R01
Dorothy Sipkins	Hematologic Malignancies and Cellular Therapy	Defining the Rules of Breast Cancer Cell Traffic Through Bone	R01
Dorothy Sipkins Anthony D. Sung	Hematologic Malignancies and Cellular Therapy Hematologic Malignancies and Cellular Therapy	Defining and targeting a novel pathway for central nervous system leptomeningeal metastasis Home-based Autologous Hematopoietic Stem Cell Transplantation to Improve Outcomes and Decrease Costs	R01
Anthony D. Sung	Hematologic Malignancies and Cellular Therapy Hematologic Malignancies and Cellular Therapy	Home-based valuogopus remandpoints selem ben ir arrapartiation to improve ducines and bedraate dasse dasse. Hematopoietic Stem Cell Transplantation Combined with CSF1 Inhibition to Attenuate the Pathogenesis of Alzheimer's Disease	R03
Anthony D. Sung	Hematologic Malignancies and Cellular Therapy	Evaluating Effects of Age-related Microbiota Modulations in Hematopoietic Stem Cell Transplant Patients	R21
Gowthami Arepally	Hematology	Complement and CR2/CD21 in the Immune Pathogenesis of HIT	R01
Gowthami Arepally Grace M. Lee	Hematology Hematology	Complement and Thrombosis in HIT Variability in neutrophil activation	R01 R03
Grace M. Lee	Hematology	Ventations or incurrence of the Control of the Cont	R21
James White	Hematology	The AMPK/ULK1/p27Kip1 axis regulates autophagy and cell survival in aged satellite cells	K01
James White	Hematology	Assessing healthspan and epigenetics in aged mice after prolonged exposure to young circulation Coordinated Population of Visited Coordinates Coordinates	R21 R01
Andrew Alspaugh Andrew Alspaugh	Infectious Diseases Infectious Diseases	Coordinated Regulation of Virulence Genes in C. neoformans Metal Homeostasis in Yeast	R01
Arthur W. Baker	Infectious Diseases	Combined Use of Statistical Process Control and Whole Genome Sequencing to Detect and Investigate Nontuberculous Mycobacterial Clusters and Outbreaks	K08
Maria Blasi	Infectious Diseases	Targeting the HIV-1 reservoir with a combination of an IDLV-SIVGag therapeutic vaccine and Fc-engineered bnAbs	R56
Vivian H. Chu	Infectious Diseases	Bridging the Gap to Enhance Clinical Research Program (BIGGER) Mentoring Patient Oriented Research in Antibiotic-Resistant Bacteria	R25 K24
Vance G. Fowler Jr. Feng Gao	Infectious Diseases Infectious Diseases	wentoning retent Oriented research in Antibodic-resistant Bacteria Dissection of polyreactivity and neutralization activity of HIV-1 Abs	R01
Thuy Le	Infectious Diseases	Making an early diagnosis of talaromycosis - an approach to reduce morbidity and mortality in advanced HIV disease in Southeast Asia	R01
Thuy Le	Infectious Diseases	Mapping of the IgM and IgG antibody responses to Talaromyces marneffei infection in mice and humans - Deciphering acute from reactivated or latent infections	R21
Susanna Naggie Nwora I. Okeke	Infectious Diseases Infectious Diseases	Identification of Novel Bioactive Lipid Metabolites for Predicting Liver-related Outcomes in Persons Co-Infected with HIV and HCV A Clinic-Based Behavioral Intervention to Reduce Cardiovascular Disease Risk in Persons Living with HIV	R01 K23
John Perfect	Infectious Diseases	A curric-based behavioral intervention to reduce Cardiovascular unsease risk in regions Living with my Evolution of Cryptococcus neoformans Strains from Patients with HIV/AIDS Evolution of Cryptococcus neoformans Strains from Patients with HIV/AIDS	R01
Wendy A. Prudhomme - O'Meara	Infectious Diseases	Malaria diagnostic testing and conditional subsidies to target ACTs in the retail sector: the TESTsmART trial	R01
Wendy A. Prudhomme - O'Meara	Infectious Diseases	Once bitten: A longitudinal, observational study of successful malaria parasite transmission events between humans and mosquitos	R01
Matthew P. Rubach Matthew Rubach	Infectious Diseases Infectious Diseases	Viral Zoonoses and Severe Febrile Illness in Northern Tanzania Sepsis Characterization in Kilimanjaro	K23 R01
Steve Taylor	Infectious Diseases Infectious Diseases	sepsis Characterization in Ruimanjaro Malaria chemoprevention in children with sickle cell anemia in Western Kenya	R01
L. Gayani Tillekeratne	Infectious Diseases	Novel Diagnostics to Improve Antimicrobial Stewardship for Acute Respiratory Tract Infections in Resource-Limited Settings	K23
Gerard C. Blobe	Medical Oncology	Role of ALK4 in Regulating Receptor Trafficking and Pancreatic Cancer Biology Role for ThetaBUIL Scheding in the Trage Microsophic forment.	R01
Gerard C. Blobe Brent A. Hanks	Medical Oncology Medical Oncology	Role for TbetaRIII Shedding in the Tumor Microenvironment Role of the tumor NLRP3 inflammasome in the generation of anti-PD-1 antibody immunotherapy-associated toxicities	R01 R01
Kevin C. Oeffinger	Medical Oncology	EMPOWER Study: Promoting BC Screening in Women Who Survived Childhood Cancer	R01
Kevin C. Oeffinger	Medical Oncology	Onco-primary care networking to support TEAM-based care - the ONE TEAM Study	R01
Steven Patierno Allison E. Ashley-Koch	Medical Oncology Nephrology	Race-Related Alternative Splicing: Novel Targets in Prostate Cancer Identifying novel clinical, genetic and proteomic risk factors for sickle cell nephropathy.	R01 R21
Steven D. Crowley	Nephrology	Identifying novel clinical, genetic and proteomic risk factors for sickle cell repriropatry. The Interleukin-1 receptor regulates crosstalls between myeloid and renal fubular cells in hypertension	R01
Daniel Edmonston	Nephrology	Novel Mechanisms and Therapeutic Targets for Pulmonary Hypertension in End-Stage Renal Disease (K23)	K23
Mary H. Foster	Nephrology	Gene-Environment Collaboration in Autoimmune Disease	R01
Gentzon Hall Rasheeda K. Hall	Nephrology Nephrology	The Role of Interleukin-15 Receptor-alpha Variants in the Pathogenesis of FSGS Deprescribing for Older Dialysis Patients	K08 K76
Xunrong Luo	Nephrology	Deprescriping for Order Dialysis Patients Modeling concurrent Cytomegalovirus infection and transplantation tolerance	R01
Tomokazu Souma	Nephrology	Targeting Renal Tubular Epithelial Progenitors in AVI to CKD transition	R01
Laura P. Svetkey	Nephrology	Duke CTSA (KL2)	KL2
Crystal C. Tyson Christina M. Wyatt	Nephrology Nephrology	Diet and Hypertension Management in Chronic Kidney Disease Impact of early antiretroviral therapy on kidney disease outcomes	K01 R01
Christopher Cox	Pulmonary	Impact of early antifetioviral ulerapy on kniney disease ductions Poplanner	R01
Zachary R. Healy	Pulmonary	Characterization of CMV-specific T cell responses in immunocompromised hosts	K99
Jennifer L. Ingram	Pulmonary	Mechanisms that Direct Airway Remodeling in Obese Asthma	R01
Jennifer L. Ingram Bryan D. Kraft	Pulmonary Pulmonary	Matrix Metalloproteinase-19 as a Mediator of Airway Fibrosis in Obese Allergic Asthma Role of S-nitrosothiols in Akt1 signaling and pneumonia resolution	R21 K08
Patty Lee	Pulmonary	TURE-01-SHIDDSURING II FARI SMIRIMIR AND DIFFERING IN ESSURING II TURE-MEDIA TO THE AND THE AN	R01
David M. Murdoch	Pulmonary	Magnetically directed single cell transcriptome analysis in HIV latency	R01
David M. Murdoch	Pulmonary	A Systems Biology Approach to HIV-associated Neurocognitive Impairment: Role of Drug Abuse and Neuroinflammation	R01
David M. Murdoch Scott M. Palmer	Pulmonary Pulmonary	Pathogenesis of Neuroinflammation and Neurocognitive Impairment In HIV-infected Young Adult Cannabis Users Proof of concept treatment interventions in a rodent model of the rare disease bronchiolitis obliterans	R01 R21
Scott M. Palmer	Pulmonary	Proto to concept readment interventions in a rought mode or the rate disease bronchionis domerans Duke Resident Physician-Scientist Program. NIAID Duke Resident Physician-Scientist Program. NIAID	R38
Claude A. Piantadosi	Pulmonary	Mitochondrial quality control and alveolar damage resolution after acute lung injury	R01
Robert M. Tighe	Pulmonary	CXCL10/CXCR3 regulation of ozone-induced epithelial permeability	R01
		Accelerated Metabolic Aging in Rheumatoid Arthritis Immune cells and Skeletal Muscle: A Pilot Study	R03
Brian Andonian Kim M. Huffman	Rheumatology Rheumatology	Weight loss and exercise to improve rheumatoid arthritis cardiovascular risk	R21

Virginia B. Kraus	Rheumatology	Epigenetic Mechanisms Promoting Longevity	R01
Virginia B. Kraus	Rheumatology	Extracellular Vesicle Analyses to Develop Aging and Resilience Biomarkers	R01