Department of Medicine faculty with current grants from R & K mechanisms as of May 2022

Gerald S. Bloomfield Cardiology Pathways to cardiovascular disease prevention and impact of specialty referral in under-represented racial/ethnic minorities with HIV R01
Gerald S. Bloomfield Cardiology Epidemiologic Determinants of Cardiovascular Structure and Function in Rural RURAL ECHO R01
Gerald S. Bloomfield Cardiology Proteomic Profiles of Cardiac Dysfunction in Children and Adolescents with HIV R06
Melissa A. Daubert Cardiology Coronary Artery Calcium in the PBAGromatic Evaluation of eVEnts And Benefits of Lipid lowering in the Elderly: CAC PREVENTABLE Ancillary Study R03
Marat Fudim Cardiology Congestion Phenotypes and Spheric Aniria Moeddation in Chronic Heart Failure K23
Geoffrey S. Ginsburg Cardiology NIKRI Research Training and Career Development Annual Meeting R13
Michael D. Gunn Cardiology Generation of antibodies specific for optimal non-HPRP malaria diagnostic antigens R21
Christopher Holley Cardiology SnoRNA-guided modifications of mRNA R01
Christopher Holley Cardiology The Risk of RNA Modifications in Heart Failure R01
Larry J. Jackson Cardiology Shared Decision-Making to Reduce Racial Disparities in Oral Anticoagulant Use in Patients with Non-Valvular Atrial Fibrillation K01
Ravi Karra Cardiology Myocardial Mechanisms of Cardiovascular Growth and Regeneration R01
Christopher Kontos Cardiology Mechanisms Regulating Vascular Homeostasis R01
William E. Kraus Cardiology Skeletal Muscle Molecular Drug Targets for Exercise-induced Cardiometabolic Health R01
William E. Kraus Cardiology Exercise-induced Legacy Health Benefits on Cardiometabolic Risk Factors in Aging Adults with Prediabetes R21
Robert J. Letofowitz Cardiology Molecular Regulation of Cardiovascular TMR Receptors K01
Yongmi Liu Cardiology Obesity-Related Epigenetic Changes and Type-2 Diabetes R01
Yongmi Liu Cardiology A Longitudinal Epigenetic Study of Sclerosis R01
Robert W. McGarrah III Cardiology The Branched Chain Dehydrojugene Kinase-Phosphatase System as a New Regulatory Node in Myocardial Fuel Section K08
Manesh R. Patel Cardiology BEST-VIVA Registry (vCLI) R01
Robert W. McGarrah III Cardiology The Branched Chain Dehydrojugene Kinase-Phosphatase System as a New Regulatory Node in Myocardial Fuel Section K08

Nwora L. Okeke Infectious Diseases A Clinic-Based Behavioral Intervention to Reduce Cardiovascular Disease Risk in Persons Living with HIV K23
Susanna Naggie Infectious Diseases Identification of Novel Bioactive Lipid Metabolites for Predicting Liver-related Outcomes in Persons Co-Infected with HIV and HCV 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
Juliessa M. Pavon Geriatrics Deprescribing Central Nervous System Medications in Hospitalized Older Adults K23
Christopher B. Bowling Geriatrics Functional Limitations and Disability Among Middle-Aged Adults R01
Christopher B. Bowling Geriatrics Sustained blood pressure control and progression of multimorbidity K01
Diego Bohorquez Gastroenterology Glutamatergic neurotransmission in gut neuroendocrine cells R21
Jatin Roper Gastroenterology Inhibition of CaMKK2 sensitizes rectal cancers to radiation therapy R21
Jatin Roper Gastroenterology Ultra-bright fluorescent nanoparticles for colorectal cancer detection R01
Katherine Garman Gastroenterology The role of gastrin in esophageal submucosal gland acinar ductal metaplasia R01
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Katherine Garman Gastroenterology The role of gastrin in esophageal submucosal gland acinar ductal metaplasia R01
Rodger A. Liddle Gastroenterology Mechanisms of mechanically-induced acute pancreatitis R01
Rodger A. Liddle Gastroenterology Mechanisms of Pancreatic Fibrosis R01
Rodger A. Liddle Gastroenterology Metabolic regulation of pancreatitis R01
Rodtac R. Rollin Gastroenterology Metabolic regulation of pancreatitis R01
Jatin Roper Gastroenterology Inhibition of CaMKK2 sensitizes rectal cancers to radiation therapy R21
Jatin Roper Gastroenterology Ultra-bright fluorescent nanoparticles for colorectal cancer detection R01
Krishna V. Srinivasan Gastroenterology Religion, Spirituality and CVD Risks: A Focus on African Americans R01
Nupeene Bhavsar General Internal Medicine Addressing Bias from Missing Data in EHR Based Studies of CVD K01
Nicole Depasquale General Internal Medicine Supporting Patients and Family Care Partners to Manage Chronic Kidney Disease Together K01
Susanna B. Haga General Internal Medicine Predicting Genetic Counselors for Genetic 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
Lori A. Orlando General Internal Medicine Deploying a genomic-medicine risk assessment model for diverse primary care populations and settings R01
Christopher B. Bowling Geriatrics Functional Limitations and Disability Among Middle-Aged Adults R01
Christopher B. Bowling Geriatrics Sustained blood pressure control and progression of multimorbidity K01
Christopher B. Bowling Geriatrics Sustained blood pressure control and progression of multimorbidity K01
Daniel Parker Geriatrics Healthy Skeletal Muscle, Healthy Brain: Are Kyurenine Metabolites the Link? R03
Julesset J. Pavon Geriatrics Deprescribing Central Nervous System Medications in Hospitalized Older Adults K23
Gregory A. Taylor Geriatrics Role of IRGM proteins in immunity to enteric bacteria K01
Gregory A. Taylor Geriatrics IRGM proteins as regulators of inflammation R01
Goetham Asapally Hematology Complement and Thrombosis in HIT R01
Grace M. Lee Hematology Variability in neutrophil activation R03
Grace M. Lee Hematology Neutrophil Activation Phenotypes in Healthy Subjects and Implications for Bacterial Clearance R21
James White Hematology The AMPKULK1p127Kp1 axis regulates autophagy and cell survival in aged satellite cells K01
James White Hematology A Clinic-Based Behavioral Intervention to Reduce Cardiovascular Disease Risk in Persons Living with HIV R01
John Perfect Infectious Diseases Evolution of Cryptococcus neoformans Strains from Patients with HIV/AIDS R01
Wendy A. Prodromou - O'Meara Infectious Diseases Malagnosis testing and conditional subsidies to target ACTs in the retail sector: the TESTAntART trial R01
Wendy A. Prodromou - O'Meara Infectious Diseases Once bitten: A longitudinal, observational study of successful malaria parasite transmission events between humans and mosquitos R01
Matthew Rubach  Infectious Diseases  Sepsis Characterization in Kilimanjaro  R01
Steve Taylor  Infectious Diseases  Malaria chemoprevention in children with sickle cell anemia in Western Kenya  R01
Allison E. Ashley-Koch  Infectious Diseases  Longitudinal cohort study of SARS-CoV2 sero-conversion in a malaria-endemic community in Western Kenya  R21
Steven D. Crowley  Nephrology  The interleukin-1 receptor regulates crosstalk between myeloid and renal tubular 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  Nephrology  The Role of Interleukin-15 Receptor-alpha Variants in the Pathogenesis of FSGS  K08
Rasheeda K. Hall  Nephrology  Deprescribing for Older Dialysis Patients  K76
Xunrong Luo  Nephrology  Donor Kidney Resident Macrophages in Kidney Allograft Early Inflammation and Alloimmunity  R01
Opeyemi A. Obabisi  Nephrology  JAK-STAT Inhibition to Reduce Racial Disparities in Kidney Disease  R01
Tomokazu Souma  Nephrology  Targeting Renal Tubular Epithelial Progenitors in AKI to CKD transition  R01
Laura P. Svetkey  Nephrology  Duke CTSA (KL2)  KL2
Crystal C. Tyson  Nephrology  Diet and Hypertension Management in Chronic Kidney Disease  K01
Christina M. Wyatt  Nephrology  Impact of early antiretroviral therapy on kidney disease outcomes  R01
Andrew Armstrong  Oncology  Targeting convergent oncogenic signaling during AR inhibition to overcome metastasis and immune evasion in prostate cancer  R01
Gerard C. Blobe  Oncology  Role of ALK4 in Regulating Receptor Trafficking and Pancreatic Cancer Biology  R01
Gerard C. Blobe  Oncology  Role for TbetaRIII Shedding in the Tumor Microenvironment  R01
Brent A. Hanks  Oncology  Role of the tumor NLRP3 inflammasome in the generation of anti-PD-1 antibody immunotherapy-associated toxicities  R01
Brent A. Hanks  Oncology  Investigating the PD-L1-NLRP3 signaling axis as a tumor intrinsic mechanism of adaptive resistance to anti-PD-1 antibody immunotherapy  R03
Shaowen D. Hsu  Oncology  Microfluidic Droplet Organoids to Decipher the Tumor Heterogeneity in CRC of African Ancestry  R21
Kevin C. Geffinger  Oncology  EMPOWER Study: Promoting BC Screening in Women Who Survived Childhood Cancer  R01
Steve Patierno  Oncology  Race-Related Alternative Splicing: Novel Targets in Prostate Cancer  R01
Christopher Cox  Pulmonary  LIFT2  R01
Matthew W. Foster  Pulmonary  Multomic, mass spectrometry-based analysis of dried blood for deep phenotyping of sepsis  R21
Zachary R. Haaly  Pulmonary  Characterization of CMV-specific T cell responses in immunocompromised hosts  K09
Jennifer L. Ingram  Pulmonary  Mechanisms that Direct Airway Remodeling in Obese Asthma  R01
Jennifer L. Ingram  Pulmonary  Matrix Metalloproteinase-19 as a Mediator of Airway Fibrosis in Obese Allergic Asthma  R21
Patty Lee  Pulmonary  TLR- and NOD-Like SIGNALING MECHANISMS IN EMPHYSEMA  R01
David M. Murdoch  Pulmonary  Magnetically directed single cell transcriptome analysis in HIV latency  R01
David M. Murdoch  Pulmonary  Pathogenesis of Neuroinflammation and Neurocognitive Impairment In HIV-infected Young Adult Cannabis Users  R01
Scott M. Palmer  Pulmonary  Duke Resident Physician-Scientist Program- NIAID  R38
Claude A. Plantaditis  Pulmonary  Mitochondrial quality control and alveolar damage resolution after acute lung injury  R01
Loratta Que  Pulmonary  Oxidative Stress and Regional Airway Remodeling and Fibrosis in Obese Asthma  R01
Isabella L. Riley  Pulmonary  COPING with Asthma through Life Management (CALM)  K01
Robert M. Tighe  Pulmonary  CCK1R and CCK3R regulation of ozone-induced epithelial permeability  R01
Brian Andonian  Rheumatology  Accelerated Metabolic Aging in Rheumatoid Arthritis Immune cells and Skeletal Muscle: A Pilot Study  R03
Kim M. Huffman  Rheumatology  Weight loss and exercise to improve rheumatoid arthritis cardiovascular risk  R21
Kim M. Huffman  Rheumatology  ENHANCING THE CALERIE NETWORK TO ADVANCE AGING BIOLOGY  R33
Virginia B. Kraus  Rheumatology  Epigenetic Mechanisms Promoting Longevity  R01
Virginia B. Kraus  Rheumatology  Extracellular Vesicles Analyses to Develop Aging and Resilience Biomarkers  R01