Department of Medicine Duke University School of Medicine Department of Medicine faculty with current grants from R and K mechanisms as of September 2021

Department of Medicine lacun	ty with current grants from R and K mechanism		
Investigator	Division	Project	Grant
Gerald S. Bloomfield	Cardiology	Pathways to cardiovascular disease prevention and impact of specialty referral in under-represented racial/ethnic minorities with HIV	R01
Marat Fudim	Cardiology	Congestion Phenotypes and Splanchnic Nerve Modulation in Chronic Heart Failure	K23
Geoffrey S. Ginsburg Michael D. Gunn	Cardiology	NHGRI Research Training and Career Development Annual Meeting	R13
Christopher Holley	Cardiology Cardiology	Generation of antibodies specific for optimal non-HRP2 malaria diagnostic antigens SnoRNA-guided modifications of mRNA	R21 R01
Christopher Holley	Cardiology	The Role of RNA Modifications in Heart Failure	R01
Villiam E. Kraus	Cardiology	Skeletal Muscle Molecular Drug Targets for Exercise-induced Cardiometabolic Health	R01
Robert J. Lefkowitz	Cardiology	Molecular Regulation of Cardiovascular 7 TM Receptors	R01
'ongmei Liu	Cardiology	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
/anesh R. Patel	Cardiology	BEST-VIVA Registry (vCLI)	R01
udarshan Rajagopal Ioward A. Rockman	Cardiology	Biasing CXCR3 Signaling to Modulate the Inflammatory Response Mechanisms of Maladaptation in Heart Failure	R01
Paul B. Rosenberg	Cardiology	Mechanisms of Maladaptation in Heart Haiure STIM1 and metabolic flexibility	R01 R01
vati H. Shah	Cardiology Cardiology	S I MY 1 and metabolic nexoliny Clinical and Molecular Epidemiology of High Risk Coronary Plaque	R01
Svati H. Shah	Cardiology	Unifiamatory and Metabolic Biomativers in Cardiovascular Complications with SARS-CoV-2	R21
udha Shenoy	Cardiology	Regulation of Vascular Inflammatory Signaling by the Deubiquitinase USP20	R01
udha Shenoy	Cardiology	Regulation of myocardial GPCRs by USP20 in normal and hypertrophied heart	R01
Ionique L. Starks	Cardiology	Evaluation of the Requirements and Critical Features of a Drone-Deployed AED Network to Improve Community-Level Survival after OHCA	K23
onathan A. Stiber	Cardiology	Anti-Atherogenic Mechanisms of Drebrin	R01
. Munir Alam	DHVI	Antigen recognition and activation of B-cell receptors of HIV-1 broadly neutralizing antibodies	R01
lihai L. Azoitei	DHVI	Novel Immunogens to Elicit Broadly Cross-reactive Antibodies That Target the Hemagglutinin Head Trimer Interface	R01
onathan Campbell	Endocrinology	Mechanisms of insulin secretion mediated by alpha cells	R01
onathan Campbell	Endocrinology	Novel metabolic actions of GIP	R01
ark Herman	Endocrinology	The Role of ChREBP in Fructose Induced Metabolic Disease Churles on the Machaeline humbles SUBTE Beautise Asian and Disease	R01 R01
atthew D. Hirschey atthew D. Hirschey	Endocrinology Endocrinology	Studies on the Mechanisms by which SIRTS Regulates Aging and Disease Post-Translational and Epigenetic Control of Branched-Chain Amino Acid Metabolism	R01
atthew D. Hirschey	Endocrinology	Poser nanisational and ppgenetic control or brancied-chain Animo Add wetadorsin Determining the Sub-Cellular Organelles that Link Lipid Signaling and Epigenetics	R01
ichard H. Lee	Endocrinology	Metabolomic & Radiographic Markers of Fracture Risk Among Older Adults with Diabetes	K23
eborah Muoio	Endocrinology	Mechanisms of lipid-induced bioenergetic stress in muscle	R01
iego Bohorquez	Gastroenterology	The efferent synapse in enteroendocrine cells	R21
nna Mae Diehl	Gastroenterology	TNF Alpha and Recovery from Alcoholic Liver Injury	R01
nna Mae Diehl	Gastroenterology	Hedgehog Signaling and Adult Liver Regeneration	R01
atherine Garman	Gastroenterology	The role of gastrin in esophageal submucosal gland acinar ductal metaplasia	R01
odger A. Liddle	Gastroenterology	Mechanisms of mechanically-induced acute pancreatitis	R01
odger A. Liddle	Gastroenterology	Mechanisms of Pancreatic Fibrosis	R01
odger A. Liddle atin Roper	Gastroenterology	Metabolic regulation of pancreatitis Inhibition of CaMKK2 sensitizes rectal cancers to radiation therapy	R01 R21
atin Roper atin Roper	Gastroenterology Gastroenterology	Ultra-bright fluorescent nanoparticles for colorectal adenoma detection	R21 R21
eisha Bentley-Edwards	General Internal Medicine	Religion, Spirituality and CVD Risks: A Focus on African Americans	R01
rupen Bhavsar	General Internal Medicine	Addressing Bias from Missing Data in EHR Based Studies of CVD	K01
icole Depasquale	General Internal Medicine	Supporting Patients and Family Care Partners to Manage Chronic Kidney Disease Together	K01
usanne B. Haga	General Internal Medicine	Preparing Genetic Counselors for Genomic Medicine Research	R25
a 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
ori A. Orlando	General Internal Medicine	Deploying a genomic-medicine risk assessment model for diverse primary care populations and settings	R01
nristopher B. Bowling	Geriatrics	Functional Limitations and Disability Among Middle-Aged Adults	R01
hristopher B. Bowling	Geriatrics	Sustained blood pressure control and progression of multimorbidity	R01
aniel Parker	Geriatrics	Healthy Skeletal Muscle, Healthy Brain: Are Kynurenine Metabolites the Link?	R03
uliessa M. Pavon atrick M. Sullivan	Geriatrics	Deprescribing Central Nervous System Medications in Hospitalized Older Adults	K23 R21
regory A. Taylor	Geriatrics Geriatrics	A Novel Animal Model of Late Onset Alzheimer's Disease Role of IRGM proteins in immunity to enteric bacteria	R01
regory A. Taylor	Geriatrics	IRGM proteins an equilators of inflammation	R01
elson J. Chao	Hematologic Malignancies and Cellular Therapy	Patient-centered home-based hemantapoietic stem cell transplantation	R01
ubin Kang	Hematologic Malignancies and Cellular Therapy	Effects of PPAR agonists on response to immunomodulatory agents in patients with multiple myeloma	R21
tefanie Sarantopoulos	Hematologic Malignancies and Cellular Therapy	Pathological B Cells: Novel Strategies to Prevent and Treat Chronic GVHD	R01
prothy Sipkins	Hematologic Malignancies and Cellular Therapy	Defining the Rules of Breast Cancer Cell Traffic Through Bone	R01
prothy Sipkins	Hematologic Malignancies and Cellular Therapy	Defining and targeting a novel pathway for central nervous system leptomeningeal metastasis	R01
nthony D. Sung	Hematologic Malignancies and Cellular Therapy	Home-based Autologous Hematopoietic Stem Cell Transplantation to Improve Outcomes and Decrease Costs	R01
nthony D. Sung	Hematologic Malignancies and Cellular Therapy	Prebiotics to Optimize the Microbiota and Improve Outcomes of Allogeneic Hematopoietic Stem Cell Transplantation	R01
nthony D. Sung	Hematologic Malignancies and Cellular Therapy	Hematopoietic Stem Cell Transplantation Combined with CSF1 Inhibition to Attenuate the Pathogenesis of Alzheimer's Disease	R03
hthony D. Sung	Hematologic Malignancies and Cellular Therapy	Evaluating Effects of Age-related Microbiota Modulations in Hematopoietic Stem Cell Transplant Patients	R21
owthami Arepally owthami Arepally	Hematology	Complement and CR2/CD21 in the Immune Pathogenesis of HIT Complement and Thrombosis in HIT	R01 R01
ace M. Lee	Hematology Hematology	Variability in neutrophil activation	R03
ace M. Lee	Hematology	Neutrophil Activation Phenotypes in Healthy Subjects and Implications for Bacterial Clearance	R21
mes White	Hematology	The AMPK/ULK1/p27Kip1 axis regulates autophagy and cell survival in a global stellite cells	K01
ames White	Hematology	Assessing healthspan and epigenetics in aged mice after prolonged exposure to young circulation	R21
ndrew Alspaugh	Infectious Diseases	Coordinated Regulation of Virulence Genes in C. neoformans	R01
drew Alspaugh	Infectious Diseases	Metal Homeostasis in Yeast	R01
thur W. Baker	Infectious Diseases	Combined Use of Statistical Process Control and Whole Genome Sequencing to Detect and Investigate Nontuberculous Mycobacterial Clusters and Outbreaks	K08
aria Blasi	Infectious Diseases	Targeting the HIV-1 reservoir with a combination of an IDLV-SIVGag therapeutic vaccine and Fc-engineered bnAbs	R56
vian H. Chu	Infectious Diseases	Bridging the Gap to Enhance Clinical Research Program (BIGGER)	R25
ance G. Fowler Jr.	Infectious Diseases	Mentoring Patient Oriented Research in Antibiotic-Resistant Bacteria	K24
eng Gao	Infectious Diseases	Dissection of polyreactivity and neutralization activity of HIV-1 Abs	R01
uy Le	Infectious Diseases	Making an early diagnosis of talaromycosis - an approach to reduce morbidity and mortality in advanced HIV disease in Southeast Asia	R01
uy Le usanna Naggie	Infectious Diseases 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 Identification of Novel Bioactive Lipid Metabolites for Predicting Liver-related Outcomes in Persons Co-Infected with HIV and HCV	R21 R01
wora L. Okeke	Infectious Diseases	Identification of toole block the Lpic weatoones for Predicting Lifer-related Catcones in Persons Co-Intected with hit and her V A Clinic-Based Behavioral Intervention to Reduce Cardiovascular Disease Risk in Persons Living with HIV	K01
hn Perfect	Infectious Diseases	Evolution of Cryptococcus neoformans Strains from Patients with HIV/AIDS	R01
endy A. Prudhomme - O'Meara	Infectious Diseases	Malaria disposto testing and conditional subsidies to target ACTs in the retail sector: the TESTsmART trial	R01
/endy A. Prudhomme - O'Meara	Infectious Diseases	Once bitten: A longitudinal, observational study of successful malaria parasite transmission events between humans and mosquitos	R01
atthew P. Rubach	Infectious Diseases	Viral Zoonoses and Severe Febrile Illness in Northern Tanzania	K23
eve Taylor	Infectious Diseases	Malaria chemoprevention in children with sickle cell anemia in Western Kenya	R01
Gayani Tillekeratne	Infectious Diseases	Novel Diagnostics to Improve Antimicrobial Stewardship for Acute Respiratory Tract Infections in Resource-Limited Settings	K23
drew Armstrong	Medical Oncology	Targeting convergent oncogenic signaling during AR inhibition to overcome metastasis and immune evasion in prostate cancer	R01
erard C. Blobe	Medical Oncology	Role of ALK4 in Regulating Receptor Trafficking and Pancreatic Cancer Biology	R01
erard C. Blobe	Medical Oncology	Role for TbetaRIII Shedding in the Tumor Microenvironment	R01
ent A. Hanks	Medical Oncology	Role of the tumor NLRP3 inflammasome in the generation of anti-PD-1 antibody immunotherapy-associated toxicities Investigating the DPL14NLPB2 engineering avie as a tumor intringer machinement of adaptive sociations to BDL4 ptillody immunotherapy.	R01
ent A. Hanks win C. Oeffinger	Medical Oncology Medical Oncology	Investigating the PD-L1:NLRP3 signaling axis as a tumor intrinsic mechanism of adaptive resistance to anti-PD-1 antibody immunotherapy EMPOWER Study: Promoting BC Screening in Women Who Survived Childhood Cancer	R37 R01
	Medical Oncology Medical Oncology	EMPOWER Study: Promoting be Screening in women who surved chilanood cancer Onco-primary care networking to support TEAM-based care - the ONE TEAM Study	R01
	Medical Oncology	Once-printing care networking to support i PAM-based care - the ONE TEAM Study Race-Related Alternative Splicing: Novel Targets in Prostate Cancer	R01
	Nephrology	Indeet-Named Namerinauro Bonning, Novel ranges in Frostate Cancer Identifying novel clinical, genetic and proteomic risk factors for sickle cell nephropathy.	R21
even Patierno		The interfeation regulates crosstal between myeloid and renal tubular cells in hypertension	R01
even Patierno ison E. Ashley-Koch			K23
even Patierno ison E. Ashley-Koch even D. Crowley	Nephrology Nephrology	Novel Mechanisms and Therapeutic Targets for Pulmonary Hypertension in End-Stage Renal Disease (K23)	
even Patierno ison E. Ashley-Koch even D. Crowley iniel Edmonston	Nephrology Nephrology	Novel Mechanisms and Therapeutic Targets for Pulmonary Hypertension in End-Stage Renal Disease (K23) Gene-Environment Collaboration in Autoimmune Disease	R01
even Patierno ison E. Ashley-Koch even D. Crowley aniel Edmonston ary H. Foster	Nephrology		R01 K08
even Patierno lison E. Ashley-Koch even D. Crowley aniel Edmonston ary H. Foster entzon Hall	Nephrology Nephrology Nephrology	Gene-Environment Collaboration in Autoimmune Disease	
even Patierno lison E. Ashlev-Koch even D. Crowley aniel Edmonston ary H. Foster entzon Hall scheeda K. Hall	Nephrology Nephrology Nephrology Nephrology	Gene-Environment Collaboration in Autoimmune Disease The Role of Interleukin-15 Receptor-alpha Variants in the Pathogenesis of FSGS	K08
even Patierno lison E. Ashiey-Koch even D. Crowley aniel Edmonston ary H. Foster entzon Hall asheeda K. Hall unrong Luo monkazu Souma	Nephrology Nephrology Nephrology Nephrology Nephrology Nephrology	Gene-Environment Collaboration in Autoimmune Disease The Role of Interleukin-15 Receptor-alpha Variants in the Pathogenesis of FSGS Deprescribing for Older Dialysis Patients	K08 K76 R01 R01
leven Patierno lison E, Ashley-Koch even D. Crowley aniel Edmonston ary H. Foster entzon Hall asheeda K. Hall unrong Luo mokazu Souma	Nephrology Nephrology Nephrology Nephrology Nephrology Nephrology	Gene-Environment Collaboration in Autoimmune Disease The Role of Interleukin-16 Receptor-alpha Variants in the Pathogenesis of FSGS Deprescribing for Older Dialysis Patients Modeling concurrent cytomegalovirus infection and transplantation tolerance Targeting Renal Tubular Epithelial Progenitors in AKI to CKD transition Duke CTSA (KL2)	K08 K76 R01
evin C. Oeffinger leven Patiemo lison E. Ashley-Koch Jison E. Ashley-Koch aniel Edmonston ary H. Foster entzon Hall asheeda K. Hall unrong Luo mokazu Souma aura P. Svetkey ystal C. Tyson	Nephrology Nephrology Nephrology Nephrology Nephrology Nephrology Nephrology Nephrology	Gene-Environment Collaboration in Autoimmune Disease The Role of Interleukin-15 Receptor-alpha Variants in the Pathogenesis of FSGS Deprescribing for Older Dialysis Patients Modeling concurrent cytomegalovirus infection and transplantation tolerance Targeting Renal Tubular Epithelial Progenitors in AKI to CKD transition Duke CTSA (KL2) Diet and Hypertension Management in Chronic Kidney Disease	K08 K76 R01 R01 KL2 K01
leven Patierno Ilison E. Ashiev-Koch Aniel Edmonston ary H. Foster entzon Hall asheeda K. Hall unrong Luo omokazu Souma aura P. Svetkey	Nephrology Nephrology Nephrology Nephrology Nephrology Nephrology Nephrology	Gene-Environment Collaboration in Autoimmune Disease The Role of Interleukin-16 Receptor-alpha Variants in the Pathogenesis of FSGS Deprescribing for Older Dialysis Patients Modeling concurrent cytomegalovirus infection and transplantation tolerance Targeting Renal Tubular Epithelial Progenitors in AKI to CKD transition Duke CTSA (KL2)	K08 K76 R01 R01 KL2

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
Bryan D. Kraft	Pulmonary	Role of S-nitrosothiols in Akt1 signaling and pneumonia resolution	K08
Patty Lee	Pulmonary	TLR4-MEDIATED EPIGENETIC AND SENESCENCE MECHANISMS IN EMPHYSEMA	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	Pulmonary	Pathogenesis of Neuroinflammation and Neurocognitive Impairment In HIV-infected Young Adult Cannabis Users	R01
Scott M. Palmer	Pulmonary	Proof of concept treatment interventions in a rodent model of the rare disease bronchiolitis obliterans	R21
Scott M. Palmer	Pulmonary	Duke Resident Physician-Scientist Program- NIAID	R38
Claude A. Piantadosi	Pulmonary	Mitochondrial quality control and alveolar damage resolution after acute lung injury	R01
Loretta Que	Pulmonary	Oxidative Stress and Regional Airway Remodeling and Fibrosis in Obese Asthma	R01
Robert M. Tighe	Pulmonary	CXCL10/CXCR3 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 Vesicle Analyses to Develop Aging and Resilience Biomarkers	R01