

Department of Medicine faculty with current grants from R & K mechanisms as of November 2021.

Department of Medicine faculty with	current grants from R & K mechanisms as of Novembe	M 2021.	
Investigator	Division	Project	Grant
Gerald S. Bloomfield		Pathways to cardiovascular disease prevention and impact of specialty referral in under-represented racial/ethnic minorities with HIV	R01
Melissa A. Daubert Marat Fudim	Cardiology Cardiology	Coronary Artery Calcium in the PRagmatic EValuation of evENTs And Benefits of Lipid lowering in the Elderly: CAC PREVENTABLE Ancillary Study Congestion Phenotypes and Splanchnic Nerve Modulation in Chronic Heart Failure	R01 K23
Geoffrey S. Ginsburg		NHGRI Research Training and Career Development Annual Meeting	R13
Michael D. Gunn	Cardiology	Generation of antibodies specific for optimal non-HRP2 malaria diagnostic antigens	R21
Christopher Holley	Cardiology	SnoRNA-guided modifications of mRNA	R01
Christopher Holley Christopher Kontos	Cardiology Cardiology	The Role of RNA Modifications in Heart Failure Mechanisms Regulating Vascular Homeostasis	R01
William E. Kraus		Weditalisms required by Allice Transcription of the Control of the	R01
Robert J. Lefkowitz	Cardiology	Molecular Regulation of Cardiovascular 7 TM Receptors	R01
Yongmei Liu		Obesity-Related Epigenetic Changes and Type-2 Diabetes	R01
Yongmei Liu Robert W. McGarrah III		A Longitudinal Epigenetic Study of Atherosclerosis The Branched Chain Ketoacid Dehydrogenase Kinase-Phosphatase System as a New Regulatory Node in Myocardial Fuel Section	R01 K08
Vanesh R. Patel		The bilancine Chain Retoaco Denyarogenase Kinase-Priosphatase System as a new Regulatory Node in Myodardan Puer Section BEST-VIVA Renistry (vC I) BEST-VIVA Renistry (vC I)	R01
Sudarshan Rajagopal		Biasing CXCR3 Signaling to Modulate the Inflammatory Response	R01
Sudarshan Rajagopal		Xenon MRI in Pulmonary Hypertension	R01
Howard A. Rockman	Cardiology	Mechanisms of Maladaptation in Heart Failure	R01
Paul B. Rosenberg Svati H. Shah	Cardiology Cardiology	STIM1 and metabolic flexibility Clinical and Molecular Epidemiology of High Risk Coronary Plague	R01
Svati H. Shah	Cardiology	Inflammatory and Metabolic Biomarkers in Cardiovascular Complications with SARS-CoV-2	R21
Svati H. Shah		Immunogenetic Profiling for Risk of Primary Graft Dysfunction after Heart Transplantation	R21
Sudha Shenoy	Cardiology	Regulation of Vascular Inflammatory Signaling by the Deubiquitinase USP20	R01
Sudha Shenoy Monique L. Starks	Cardiology Cardiology	Regulation of myocardial GPCRs by USP20 in normal and hypertrophied heart Evaluation of the Requirements and Critical Features of a Drone-Deployed AED Network to Improve Community-Level Survival after OHCA	K23
Ionathan A. Stiber	Cardiology	Anti-Atherogenic Mechanisms of Drebrin	R01
6. Munir Alam	DHVI	Antigen recognition and activation of B-cell receptors of HIV-1 broadly neutralizing antibodies	R01
Mihai L. Azoitei	DHVI	Novel Immunogens to Elicit Broadly Cross-reactive Antibodies That Target the Hemagglutinin Head Trimer Interface	R01
Ionathan Campbell Ionathan Campbell	Endocrinology Endocrinology	Mechanisms of insulin secretion mediated by alpha cells Novel metabolic actions of GIP	R01
Mark Herman	Endocrinology	Nover metabolic actions of GIP 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		Determining the Sub-Cellular Organelles that Link Lipid Signaling and Epigenetics Metabolomic & Participation Metabolomic & Participation of Eracture Risk Among Older Adults with Disheton	R21 K23
Richard H. Lee Deborah Muoio	Endocrinology Endocrinology	Metabolomic & Radiographic Markers of Fracture Risk Among Older Adults with Diabetes Mechanisms of lipid-induced bioenergetic stress in muscle	K23
Diego Bohorquez		meutainsins or injunituuteu picenteigeus suessi in musee Gultamatergio enurotransmission in gut heuropod cells	R01
Diego Bohorquez	Gastroenterology	The efferent synapse in enteroendocrine cells	R21
Anna Mae Diehl		TNF Alpha and Recovery from Alcoholic Liver Injury	R01
Anna Mae Diehl Katherine Garman		Hedgehog Signaling and Adult Liver Regeneration The role of gastrin in esophageal submucosal gland acinar ductal metaplasia	R01
Rodger A. Liddle		The role or gastrin in esophageal submucosai gand acinar ductal metapiasia 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
Jatin Roper Jatin Roper	Gastroenterology Gastroenterology	Inhibition of CaMKK2 sensitizes rectal cancers to radiation therapy Ultra-bright fluorescent nanoparticles for colorectal adenoma detection	R21
Keisha Bentley-Edwards	General Internal Medicine	Outs-origin intorescent nanopartices for controlled accention detection. Religion, Sprittuality and CVD Risks: A Focus on African Americans.	R01
Vrupen Bhavsar		Addressing Bias from Missing Data in EHR Based Studies of CVD	K01
licole Depasquale		Supporting Patients and Family Care Partners to Manage Chronic Kidney Disease Together	K01
Susanne B. Haga		Preparing Genetic Counselors for Genomic Medicine Research	R25
Nia Mitchell .ori A. Orlando	General Internal Medicine General Internal Medicine	Changes in Weight and Physical Function for Older African American Women in National, Peer-Led, Community-Based Weight Loss Program Deploying a genomic-medicine risk assessment model for diverse primary care populations and settings	R01
Christopher B. Bowling		Deposing a general minimentation is not assessment mount of mounts primary care populations and settings Functional Limitations and Disability Among Middle-Aged Adults Functional Limitations and Disability Among Middle-Aged Adults	R01
Christopher B. Bowling	Geriatrics	Sustained blood pressure control and progression of multimorbidity	R01
Daniel Parker	Geriatrics	Healthy Skeletal Muscle, Healthy Brain: Are Kynurenine Metabolites the Link?	R03
Juliessa M. Pavon Patrick M. Sullivan	Geriatrics Geriatrics	Deprescribing Central Nervous System Medications in Hospitalized Older Adults A Novel Animal Model of Late Onset Alzheimer's Disease	K23 R21
Gregory A. Taylor	Geriatrics	A rover Anima mode to Late of Inster Anziente is Disease Role of IRGN proteins in immunity to enteric bacteria	R01
Gregory A. Taylor	Geriatrics	IRGM proteins as regulators of inflammation	R01
Nelson J. Chao		Patient-centered home-based hematopoietic stem cell transplantation	R01
/ubin Kang Stefanie Sarantopoulos		Effects of PPAR agonists on response to immunomodulatory agents in patients with multiple myeloma Pathological B Cells: Novel Strategies to Prevent and Treat Chronic GVHD	R21 R01
Dorothy Sipkins		Participated Delias, River Strategies to Prevent and Treat annotation of the Defining the Rules of Breast Cancer Cell Traffic Through Bone	R01
Dorothy Sipkins		Defining and targeting a novel pathway for central nervous system leptomeningeal metastasis	R01
Anthony D. Sung	Hematologic Malignancies and Cellular Therapy	Home-based Autologous Hematopoietic Stem Cell Transplantation to Improve Outcomes and Decrease Costs	R01
Anthony D. Sung Anthony D. Sung	Hematologic Malignancies and Cellular Therapy Hematologic Malignancies and Cellular Therapy	Prebiotics to Optimize the Microbiota and Improve Outcomes of Allogeneic Hematopoietic Stem Cell Transplantation Hematopoietic Stem Cell Transplantation Combined with CSF1 Inhibition to Attenuate the Pathogenesis of Alzheimer's Disease	R01 R03
Anthony D. Sung	Hematologic Malignancies and Cellular Therapy	Evaluating Effects of Age-related Microbiota Modulations in Hematopoietic Stem Cell Transplant Patients 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
Sowthami Arepally	Hematology	Complement and Thrombosis in HIT	R01
Grace M. Lee	Hematology	Variability in neutrophil activation	R03
lames White	Hematology Hematology	The AMPK/ULK1/p27Kip1 axis regulates autophagy and cell survival in aged satellite cells Assessing healthshan and enigenetics in aged mice after prolonged exposure to young circulation	K01 R21
Rahima Zennadi		Assessing healthspan and epigenetics in aged mice after prolonged exposure to young circulation The Role of RBC Reactive Oxygen Species in Regulating Thrombotic Events During Aging	R01
Andrew Alspaugh		Coordinated Regulation of Virulence Genes in C. neoformans	R01
Andrew Alspaugh	Infectious Diseases	Metal Homeostasis in Yeast	R01
Arthur W. Baker Maria Blasi	Infectious Diseases Infectious Diseases	Combined Use of Statistical Process Control and Whole Genome Sequencing to Detect and Investigate Nontuberculous Mycobacterial Clusters and Outbreaks Targeting the HIV-1 reservoir with a combination of an IDLV-SIVGag therapeutic vaccine and Fo-engineered bnAbs	K08 R56
/ivian H. Chu	Infectious Diseases Infectious Diseases	Targeting the FIV-1 reservoir with a combination of an ILLV-SIVGag therapeutic vaccine and FC-engineered brivials 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
'huy Le 'huy Le	Infectious Diseases Infectious Diseases	Making an early diagnosis of talaromycosis - an approach to reduce morbidity and mortality in advanced HIV disease in Southeast Asia Mapping of the IgM and IgG antibody responses to Talaromyces marneflei infection in mice and humans - Deciphering acute from reactivated or latent infections	R01 R21
huy Le Busanna Naggie	Infectious Diseases Infectious Diseases	Mapping of the IgM and IgC antibody responses to Lalaromyces marnette infection in mice and humans — Deciphering acute from reactivated or latent infections identification of Novel Bloactive Lipid Metabolites for Predicting Liver-related Outcomes in Persons Co-Infected with HIV and HCV.	R21 R01
lwora L. Okeke	Infectious Diseases	A Clinic-Based Behavioral Intervention to Reduce Cardiovascular Disease Risk in Persons Living with HIV	K23
lohn Perfect	Infectious Diseases	Evolution of Cryptococcus neoformans Strains from Patients with HIV/AIDS	R01
Vendy A. Prudhomme - O'Meara		Makriar dagnostic resting and conditional subsidies to target ACTs in the retail sector: the TESTSMART trial	R01
Vendy A. Prudhomme - O'Meara Matthew P. Rubach		Once bitten: A longitudinal, observational study of successful malaria parasite transmission events between humans and mosquitos Viral Zoonoses and Severe Febrile Illness in Northern Tanzania	R01 K23
Matthew Rubach	Infectious Diseases Infectious Diseases	Viral Zoonoses and severe Februie liniess in Nortnern Lanzania Sepsis Characterization in Killianajian Sepsis Characterization in Killianajian	R01
Steve 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
andrew Armstrong Gerard C. Blobe	Medical Oncology Medical Oncology	Targeting convergent oncogenic signaling during AR inhibition to overcome metastasis and immune evasion in prostate cancer Role of ALK4 in Regulating Receptor Trafficking and Pancreatic Cancer Biology	R01
Gerard C. Blobe	Medical Oncology Medical Oncology	Role of ALK4 in Regulating Receptor Tramicking and Pancreatic Cancer Biology Role for TbetaRIII Shedding in the Tumor Microenvironment	R01
ennifer A. Freedman	Medical Oncology	Race-related differential RNA splicing: novel targets for precision oncology in non-small cell lung cancer	R01
Brent A. Hanks	Medical Oncology	Role of the tumor NLRP3 inflammasome in the generation of anti-PD-1 antibody immunotherapy-associated toxicities	R01
Brent A. Hanks		Exploration of Tumor-Intrinsic NLRP3 Signaling Regulators EMPOWED Study Demonstrating DC Secretion in Waynes Who Sunded Childhood Concer.	R37
Kevin C. Oeffinger Kevin C. Oeffinger		EMPOWER Study: Promoting BC Screening in Women Who Survived Childhood Cancer Onco-primary care networking to support TEAM-based care - the ONE TEAM Study	R01
tevin C. Cerringer Steven Patierno	Medical Oncology Medical Oncology	Onco-primary care networking to support 1EAM-based care - the ONE 1EAM Study Race-Related Alternative Splicing: Novel Targets in Prostate Cancer	R01
Allison E. Ashley-Koch	Nephrology	Nace-treated viterinaive Spinsing, Nover Largest in Prostate Canter (Identifying novel clinical, genetic and proteomic risk factors for sickle cell nephropathy.	R21
Steven D. Crowley	Nephrology	The interleukin-1 receptor regulates crosstalk between myeloid and renal tubular cells in hypertension	R01
Paniel Edmonston	Nephrology	Novel Mechanisms and Therapeutic Targets for Pulmonary Hypertension in End-Stage Renal Disease (K23)	K23
lary H. Foster entzon Hall	Nephrology Nephrology	Gene-Environment Collaboration in Autoimmune Disease The Role of Interleukin-15 Receptor-alpha Variants in the Pathogenesis of FSGS	R01 K08
Rasheeda K. Hall		The Kole of Interleukin-15 receptor-apina Variants in the Patriogenesis of FSGS Deprescribing for Older Dialysis Patients Deprescribing for Older Dialysis Patients Deprescribing for Older Dialysis Patients	K76
Kunrong Luo	Nephrology	Modeling concurrent cytomegalovirus infection and transplantation tolerance	R01
	Nephrology	JAK-STAT Inhibition to Reduce Racial Disparities in Kidney Disease	R01
Opeyemi A. Olabisi omokazu Souma		Targeting Renal Tubular Epithelial Progenitors in AKI to CKD transition	R01

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
Christopher Cox	Pulmonary	PCplanner	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	Pulmonary	Matrix Metalloproteinase-19 as a Mediator of Airway Fibrosis in Obese Allergic Asthma	R21
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	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
Isaretta L. Riley	Pulmonary	Coping with Asthma through Life Management (CALM)	K01
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