



JOHNS HOPKINS
SCHOOL *of* MEDICINE

Visiting Medical
Student Elective Book

Updated 1/30/2024

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GLOSSARY OF TERMS TO DESCRIBE ELECTIVES

SUBINTERNSHIP:

A rotation in which the student assumes the role of an intern, including primary care of patients and sharing night call

CLINICAL CLERKSHIP:

A rotation similar to a Core clerkship but with more responsibility for patient care and teaching

CONSULT SERVICE:

A rotation in which the student participates in the daily consultative activities of a particular division; may include the selected care of inpatients and outpatients of that division

BASIC RESEARCH:

A rotation in which the student is engaged in laboratory research in a basic science department or in a clinical department

CLINICAL RESEARCH:

A rotation in which the student is engaged in research in clinical medicine. May sometimes include laboratory work

CLINICAL ELECTIVES

Type of Elective	Department Name	Delivery	Location
Clinical Elective	Adolescent Medicine	In-Person	JHH Main Hospital
Clinical Elective	Adult Hematology	In-Person	JHH Main Hospital
Clinical Elective	Adult Trauma Orthopedics	In-Person	JHH Main Hospital
Subinternship	Advanced Diagnostic Radiology	In-Person	JHH Main Hospital
Clinical Elective	Advanced Hospitalized Pediatrics	In-Person	JHH Main Hospital
Clinical Clerkship	Allergy & Clinical Immunology	In-Person	JHH Main Hospital
Advanced Clerkship	Anesthesiology	In-Person	JHH Main Hospital
Clinical Elective	Anesthesiology & Critical Care Medicine	In-Person	JHH Main Hospital
Clinical Elective	Breast, Endocrine, Melanoma Surgery	In-Person	JHH Main Hospital
Clinical Elective	Burn Surgery	In-Person	JHH Main Hospital
Clinical Elective	Cardiac Surgery	In-Person	JHH Main Hospital
Subinternship	Cardiac Surgery	In-Person	JHH Main Hospital
Clinical Elective	Cardiology	In-Person	JHH Bayview
Clinical Elective	Cardiology	In-Person	JHH Main Hospital
Clinical Clerkship	Child & Adolescent Psychiatry	In-Person	JHH Main Hospital
Clinical Elective	Colorectal Surgery	In-Person	JHH Main Hospital

Clinical Elective	Dermatology	In-Person	JHH Main Hospital
Clinical Clerkship	Diagnostic Radiology	In-Person	JHH Main Hospital
Subinternship	Emergency Medicine	In-Person	JHH Main Hospital
Combined Subinternship	Emergency Medicine & Anesthesiology	In-Person	JHH Main Hospital
Clinical Elective	Endocrinology & Metabolism	In-Person	JHH Main Hospital
Clinical Elective	Fetal Therapy	In-Person	JHH Main Hospital
Advanced Clerkship	Full Term Nursery	In-Person	JHH Main Hospital
Clinical Elective	Gastroenterology	In-Person	JHH Main Hospital
Clinical Elective	Gastrointestinal Surgery	In-Person	JHH Main Hospital
Clinical Clerkship	Genetics	In-Person	JHH Main Hospital
Clinical Elective	Geriatrics	In-Person	JHH Main Hospital
Clinical Elective	Global Health and Emergency Medicine	In-Person	JHH Main Hospital
Subinternship	Gynecologic Oncology	In-Person	JHH Main Hospital
Subinternship	Gynecology	In-Person	JHH Main Hospital
Clinical Elective	Hand Surgery	In-Person	JHH Main Hospital
Clinical Elective	Hematopathology	In-Person	JHH Main Hospital
Clinical Elective	Hepatobiliary Surgery	In-Person	JHH Main Hospital
Advanced Clerkship	Hospital Service	In-Person	JHH Bayview
Advanced Clerkship	Hospital Service	In-Person	JHH Main Hospital
Clinical Elective	Infectious Disease	In-Person	JHH Bayview
Clinical Elective	Infectious Disease	In-Person	JHH Main Hospital
Combined Clinical	Internal Medicine & Pediatrics	In-Person	JHH Main Hospital
Subinternship	Interventional Radiology	In-Person	JHH Main Hospital
Clinical Elective	Minimally Invasive Surgery	In-Person	JHH Main Hospital
Clinical Elective	Nephrology	In-Person	JHH Bayview
Clinical Elective	Nephrology	In-Person	JHH Main Hospital
Clinical Elective	Neurodevelopmental Pediatrics	In-Person	KKI
Advanced Clerkship	Neurology	In-Person	JHH Main Hospital
Clinical Elective	Neurology	In-Person	JHH Main Hospital
Clinical Elective	Neuro-ophthalmology	In-Person	JHH Main Hospital
Clinical Elective	Neuropathology	In-Person	JHH Main Hospital
Clinical Elective	Neuropathology	In-Person	JHH Main Hospital
Clinical Elective	Neuroradiology	In-Person	JHH Main Hospital
Subinternship	Neurosurgery	In-Person	JHH Main Hospital
Clinical Elective	Obesity Medicine	In-Person	JHH Main Hospital
Subinternship	Obstetrics/Maternal Fetal Medicine	In-Person	JHH Main Hospital
Advanced Clerkship	Oncology	In-Person	JHH Main Hospital
Clinical Elective	Oncology	In-Person	JHH Main Hospital
Clinical Elective	Ophthalmology	In-Person	JHH Greenspring
Clinical Elective	Ophthalmology	In-Person	JHH Main Hospital
Advanced Clerkship	Orthopedic Oncology	In-Person	JHH Main Hospital
Clinical Elective	Orthopedic Oncology	In-Person	JHH Main Hospital
Clinical Elective	Orthopedic Surgery	In-Person	JHH Main Hospital
Subinternship	Orthopedic Surgery	In-Person	JHH Bayview
Subinternship	Orthopedic Surgery	In-Person	JHH Main Hospital

Clinical Elective	Otolaryngology - Head & Neck Surgery	In-Person	JHH Main Hospital
Subinternship	Otolaryngology - Head & Neck Surgery	In-Person	JHH Main Hospital
Clinical Elective	Pathology	In-Person	JHH Main Hospital
Advanced Clerkship	Pediatric Anesthesiology	In-Person	JHH Main Hospital
Clinical Clerkship	Pediatric Cardiology	In-Person	All Children's Hospital
Clinical Elective	Pediatric Cardiology	In-Person	JHH Main Hospital
Clinical Elective	Pediatric Dermatology	In-Person	JHH Main Hospital
Clinical Clerkship	Pediatric Emergency Medicine	In-Person	All Children's Hospital
Clinical Clerkship	Pediatric Endocrinology	In-Person	All Children's Hospital
Clinical Elective	Pediatric Endocrinology	In-Person	JHH Main Hospital
Clinical Clerkship	Pediatric Gastroenterology	In-Person	All Children's Hospital
Clinical Elective	Pediatric Gastroenterology & Nutrition	In-Person	JHH Main Hospital
Clinical Elective	Pediatric General Surgery	In-Person	JHH Main Hospital
Clinical Elective	Pediatric Hematology	In-Person	JHH Main Hospital
Clinical Clerkship	Pediatric Hematology Oncology	In-Person	All Children's Hospital
Clinical Clerkship	Pediatric ICU	In-Person	All Children's Hospital
Clinical Clerkship	Pediatric Infectious Disease	In-Person	All Children's Hospital
Clinical Elective	Pediatric Infectious Disease	In-Person	JHH Main Hospital
Clinical Clerkship	Pediatric Neurology	In-Person	All Children's Hospital
Clinical Elective	Pediatric Neurology	In-Person	JHH Main Hospital
Clinical Elective	Pediatric Oncology	In-Person	JHH Main Hospital
Clinical Elective	Pediatric Oncology	In-Person	JHH Main Hospital
Subinternship	Pediatric Orthopedic Surgery	In-Person	JHH Main Hospital
Clinical Elective	Pediatrics Genetics	In-Person	JHH Main Hospital
Clinical Elective	Pediatrics Pulmonary	In-Person	JHH Main Hospital
Clinical Clerkship	Pediatrics/Maternal, Fetal & Neonatal	In-Person	All Children's Hospital
Clinical Elective	Physical Medicine & Rehabilitation	In-Person	JHH Main Hospital
Subinternship	Plastic Surgery	In-Person	JHH Main Hospital
Clinical Elective	Preventive Medicine	In-Person	JHH Main Hospital
Subinternship	Psychiatry	In-Person	JHH Main Hospital
Consultation Service	Radiation Oncology	In-Person	JHH Main Hospital
Clinical Elective	Reproductive Endocrinology	In-Person	JHH Main Hospital
Clinical Elective	Rheumatology	In-Person	JHH Main Hospital
Clinical Elective	Spinal Surgery	In-Person	JHH Main Hospital
Subinternship	Surgery	In-Person	JHH Bayview
Subinternship	Surgery	In-Person	JHH Main Hospital
Clinical Elective	Surgical Oncology	In-Person	JHH Main Hospital
Clinical Elective	Surgical Pathology	In-Person	JHH Main Hospital
Clinical Elective	Thoracic Surgery	In-Person	JHH Main Hospital
Clinical Elective	Transplant Surgery	In-Person	JHH Main Hospital
Clinical Elective	Trauma Surgery	In-Person	JHH Main Hospital
Subinternship	Urology	In-Person	JHH Main Hospital
Clinical Elective	Vascular Surgery	In-Person	JHH Main Hospital

RESEARCH ELECTIVES

Department Name	Delivery	Location
Adult Hematology	In-Person	JHH Main Hospital
Allergy & Immunology	In-Person	JHH Main Hospital
Anesthesiology	In-Person	JHH Main Hospital
Anesthesiology & Critical Care Medicine	In-Person	JHH Main Hospital
Cardiac Surgery	In-Person	JHH Main Hospital
Cardiology	In-Person	JHH Main Hospital
Cell Biology	In-Person	JHH Main Hospital
Cerebrovascular Neurology	In-Person	JHH Main Hospital
CUPID Summer Fellowship	In-Person	JHH Main Hospital
Dermatology	In-Person	JHH Main Hospital
Emergency Medicine	In-Person	JHH Main Hospital
Endocrinology	In-Person	JHH Main Hospital
Endovascular Surgery	In-Person	JHH Main Hospital
Gastroenterology	In-Person	JHH Main Hospital
Gastroenterology & Hepatology	In-Person	JHH Main Hospital
Genetic Medicine	In-Person	JHH Main Hospital
Genetics	In-Person	JHH Main Hospital
Geriatric Psychiatry & Neuropsychiatry	In-Person	JHH Main Hospital
Gynecologic Oncology	In-Person	JHH Main Hospital
Gynecologic Pathology	In-Person	JHH Main Hospital
Gynecology & Obstetrics	In-Person	JHH Main Hospital
Infectious Disease	In-Person	JHH Main Hospital
Internal Medicine	In-Person	JHH Main Hospital
Interventional Radiology	In-Person	JHH Main Hospital
Magnetic Resonance	In-Person	JHH Main Hospital
Medical Oncology	In-Person	JHH Main Hospital
Medicine	In-Person	JHH Main Hospital
MSTAR Program	In-Person	JHH Main Hospital
Nephrology	In-Person	JHH Main Hospital
Neuroimmunology	In-Person	JHH Main Hospital
Neuroimmunology & Neuroinfectious Disorders	In-Person	JHH Main Hospital
Neurological Oncology	In-Person	JHH Main Hospital
Neurology	In-Person	JHH Main Hospital
Neurology	In-Person	KKI
Neurology and Anesthesia & Critical Care	In-Person	JHH Main Hospital
Neuromuscular Medicine	In-Person	JHH Main Hospital
Neuroradiology	In-Person	JHH Main Hospital
Neurosurgery	In-Person	JHH Main Hospital
Oncology	In-Person	JHH Main Hospital
Ophthalmology	In-Person	JHH Main Hospital
Orthopedic Surgery	In-Person	JHH Main Hospital

Otolaryngology -Head & Neck Surgery	In-Person	JHH Main Hospital
Pathology	In-Person	JHH Main Hospital
Pediatric Dermatology	In-Person	JHH Main Hospital
Pediatric General Surgery	In-Person	JHH Main Hospital
Pediatric Genetics	In-Person	JHH Main Hospital
Pediatric Neurology	In-Person	JHH Main Hospital
Pediatric Orthopedic Surgery	In-Person	JHH Main Hospital
Pharmacology & Molecular Sciences	In-Person	JHH Main Hospital
Physical Medicine & Rehabilitation	In-Person	JHH Main Hospital
Physiology	In-Person	JHH Main Hospital
Plastic Surgery	In-Person	JHH Main Hospital
Preventive Medicine	In-Person	JHH Main Hospital
Psychiatry	In-Person	JHH Main Hospital
Pulmonary & Critical Care Medicine	In-Person	JHH Main Hospital
Radiation Oncology	In-Person	JHH Main Hospital
Radiology	In-Person	JHH Main Hospital
Rheumatology	In-Person	JHH Main Hospital
Spinal Surgery	In-Person	JHH Main Hospital
Surgery/Oncology	In-Person	JHH Main Hospital
Surgical Critical Care Medicine	In-Person	JHH Main Hospital
Surgical Oncology	In-Person	JHH Main Hospital
Urology	In-Person	JHH Main Hospital

RESEARCH OPPORTUNITIES BY DEPARTMENT/DIVISION

Department/Division: Cell Biology

Faculty Name: Deborah Andrew

Research Topic(s): Developmental genetics of organ formation; Drosophila

Department/Division: Cell Biology

Faculty Name: Peter Devreotes

Research Topic(s): Chemoattractant directed cell migration; Signal transduction

Department/Division: Cell Biology

Faculty Name: Peter Espenshade

Research Topic(s): Cellular Regulation of cholesterol Homeostasis and adaptation to hypoxia

Department/Division: Cell Biology

Faculty Name: Andrew Ewald

Research Topic(s): Cellular Mechanisms and Molecular Regulation of epithelial morphogenesis in development and cancer.

Department/Division: Cell Biology

Faculty Name: Dr. Luis Adres Garza

Research Topic(s): The study of skin stem cells and prostaglandins in regeneration and wound healing.

Department/Division: Cell Biology

Faculty Name: Dr. David Hackam

Research Topic(s): Immune regulation of injury and repair at epithelial surfaces

Department/Division: Cell Biology
Faculty Name: Dr. Pablo Iglesias
Research Topic(s): Computational biology; use of control and information theory to study signal transduction pathways.

Department/Division: Cell Biology
Faculty Name: Dr. Miho Ijima
Research Topic(s): Lipid signaling in chemotaxis

Department/Division: Cell Biology
Faculty Name: Dr. Takanari Inoue
Research Topic(s): Directed cell migration; Tumor Metastasis; primary cilia; Synthetic chemical biology; Technology Development

Department/Division: Cell Biology
Faculty Name: Dr. Carlo Iomini
Research Topic(s): The role of primary cilia in corneal development and polycystic kidney disease.

Department/Division: Cell Biology
Faculty Name: Dr. Phil Jordan
Research Topic(s): Gametogenesis (spermatogenesis and oogenesis); Pluripotent stem cell genome maintenance; Neurodevelopment

Department/Division: Cell Biology
Faculty Name: Dr. Scot Kuo
Research Topic(s): Mechanical functions of cells; Actin-Based protrusion and cell motility; Nanoscale biophysics; laser-based imaging and bioinstrumentation

Department/Division: Cell Biology
Faculty Name: Dr. Rong Li
Research Topic(s): Cellular dynamics in space, time, and adaptation

Department/Division: Cell Biology
Faculty Name: Dr. Jian Liu
Research Topic(s): Theoretical modeling, mechanobiology, cell migration, membrane trafficking, cell

Department/Division: Cell Biology
Faculty Name: Dr. Erika Matunis
Research Topic(s): Molecular genetics of germ line stem cell function

Department/Division: Cell Biology
Faculty Name: Dr. Michael Matunis
Research Topic(s): Molecular mechanisms of SUMOylation and functions of mitosis; DNA repair, stress response pathways and *P. falciparum* development

Department/Division: Cell Biology
Faculty Name: Dr. Susan Michaelis
Research Topic(s): Yeast and mammalian cell biology; progeria and lamin A processing; ER quality control and cystic fibrosis; ABC transporters

Department/Division: Cell Biology
Faculty Name: Dr. Douglas Robinson
Research Topic(s): Probing the molecular, biochemical, and mechanical basis for cytokinesis and cellular morphogenesis.

Department/Division: Cell Biology

Faculty Name: Dr. Lewis H. Romer
Research Topic(s): Cardiovascular, pulmonary diseases

Department/Division: Cell Biology
Faculty Name: Dr. Anthony Rosen
Research Topic(s): Autoimmune rheumatic diseases including Lupus, RA, Scleroderma, Myositis and Sjogren's Syndrome.

Department/Division: Cell Biology
Faculty Name: Dr. Hiromi Sesaki
Research Topic(s): Mitochondrial dynamics; Membrane fusion and fission

Department/Division: Cell Biology
Faculty Name: Dr. Nilabh Shastri
Research Topic(s): Immune surveillance, exploring the molecular mechanisms behind T-cell activation.

Department/Division: Cell Biology
Faculty Name: Dr. Shigeki Watanbe
Research Topic(s): High-resolution, ultrafast kinetics of synaptic membrane trafficking events

Department/Division: Cell Biology
Faculty Name: Dr. Katherine Wilson
Research Topic(s): The cell nucleus, nuclear membranes, lamins and nucleoskeleton; membranes of Emery-Dreifuss muscular dystrophy and other "laminopathies"

Department/Division: Dermatology
Faculty Name: Dr. Crystal Aguh
Research Topic(s): Ethnic skin and program and fellowship

Department/Division: Dermatology
Faculty Name: Dr. Anna Chen
Research Topic(s): Translational research in general dermatology; Mechanism of skin aging; photobiology

Department/Division: Dermatology
Faculty Name: Dr. Luis Adres Garza
Research Topic(s): Skin infection; skin inflammation, innate immunity, skin microbiome

Department/Division: Dermatology
Faculty Name: Dr. Jun Kang
Research Topic(s): Clinical and translational research in rheumatologic dermatology and in-patient consultative dermatology.; AI and full body photography in dermatology

Department/Division: Dermatology
Faculty Name: Dr. Sewon Kang
Research Topic(s): Translational research in dermatology

Department/Division: Dermatology
Faculty Name: Dr. Shawn Kwatra
Research Topic(s): Translational research in itch; pruritus; atopic dermatitis; prurigo nodularis.; Also, epidemiology/health service research using national data sets and retrospective cohort studies. Opportunities for literature reviews are also available.

Department/Division: Dermatology
Faculty Name: Dr. Sima Rozati
Research Topic(s): Translational research in cutaneous lymphoma, oncodermatology

Department/Division: Dermatology
Faculty Name: Dr. Inbal Sander
Research Topic(s): Rheumatologic dermatology diseases, dermapathology

Department/Division: Dermatology
Faculty Name: Dr. Jeffrey Scott
Research Topic(s): Dermatoepidemiology; Dermatologic Surgery; Skin Cancer

Department/Division: Dermatology
Faculty Name: Dr. Daren Simkin
Research Topic(s): History of Dermatology

Department/Division: Dermatology
Faculty Name: Dr. Janis Taube
Research Topic(s): Melanoma; Dermatopahtolgy, image analysis

Department/Division: Dermatology
Faculty Name: Dr. Joy Wan
Research Topic(s): Epidemiologic and clinical research investigations focused on pediatric dermatology;
Atopic Dermatitis; Psychosocial and life impact of chronic skin disease

Department/Division: Emergency Medicine
Faculty Name: Christina Catlett, M.D.
Research Topic(s): Health system emergency preparedness and response; disaster education and
training; expedition medicine

Department/Division: Emergency Medicine
Faculty Name: Arjun Chanmugam, M.D.
Research Topic(s): Psychiatric Emergencies

Department/Division: Emergency Medicine
Faculty Name: Bhakti Hansoti, M.D.
Research Topic(s): International Emergency Medicine Research

Department/Division: Emergency Medicine
Faculty Name: Yu-Hsiang Hsieh, M.Sc., Ph.D.
Research Topic(s): Infectious diseases epidemiology in ED settings

Department/Division: Emergency Medicine
Faculty Name: Edbert Hsu, M.D., M.P.H.
Research Topic(s): Disaster preparedness and disaster training; pharmaceutical preparedness

Department/Division: Emergency Medicine
Faculty Name: Julianna Jung, M.D., M.Ed.
Research Topic(s): Simulation in medical education

Department/Division: Emergency Medicine
Faculty Name: Gabor Kelen, M.D.
Research Topic(s): Research methodology and design; HIV and infectious disease prevalence; health
services; acute care outcomes; disaster medicine

Department/Division: Emergency Medicine
Faculty Name: Scott Levin, Ph.D.
Research Topic(s): Systems engineering in healthcare; research design and methods; patient safety;
health services

Department/Division: Emergency Medicine

Faculty Name: Matthew Levy, D.O. M.Sc.
Research Topic(s): Emergency Medical Services Research

Department/Division: Emergency Medicine
Faculty Name: Michael Millin, M.D., M.P.H.
Research Topic(s): EMS systems development; out-of-hospital cardiovascular resuscitation; wilderness medicine; emergency preparedness

Department/Division: Emergency Medicine
Faculty Name: Junaid Razzak, M.D.
Research Topic(s): International Emergency Medicine Research

Department/Division: Emergency Medicine
Faculty Name: Richard Rothman, M.D., Ph.D.
Research Topic(s): Complications of drug abuse; health services research; infectious diseases and rapid diagnostics

Department/Division: Emergency Medicine
Faculty Name: Nelson Tang, M.D.
Research Topic(s): Emergency Medical Services; operational emergency medicine; tactical medicine; law enforcement medical support; special event medical preparedness

Department/Division: Genetic Medicine
Faculty Name: Dr. Hind Alsharhan
Research Topic(s): metabolic disease

Department/Division: Genetic Medicine
Faculty Name: Dr. H Dietz
Research Topic(s): Elucidation of the pathogenesis and treatment strategies for vascular aneurysm; connective tissue disorders; fibrosis

Department/Division: Genetic Medicine
Faculty Name: Dr. J Fahrner
Research Topic(s): Abnormal growth caused by aberrations in the epigenetic machinery

Department/Division: Genetic Medicine
Faculty Name: Dr. A Hamosh
Research Topic(s): Integration of genetic and genomic information into the electronic health record; OMIM; Understanding the molecular basis of Mendelian disorders

Department/Division: Genetic Medicine
Faculty Name: Dr. Xiao Peng
Research Topic(s): immunogenetics

Department/Division: Genetic Medicine
Faculty Name: Dr. Sonya Rasmussen
Research Topic(s): geongenital abnormalities

Department/Division: Genetic Medicine
Faculty Name: Dr. G Raymond
Research Topic(s): Neurogenetics, Lysosomal and peroxisomal diseases

Department/Division: Genetic Medicine
Faculty Name: Dr. N Sobreira
Research Topic(s): Mendelian disease discovery; Clinical sequencing informatics; PhenodB

Department/Division: Genetic Medicine

Faculty Name: Dr. D.L. Valle
Research Topic(s): Inborn errors of amino acid metabolism; molecular genetics

Department/Division: Genetic Medicine
Faculty Name: Dr. H Vernon
Research Topic(s): Biochemical genetics

Department/Division: Genetic Medicine
Faculty Name: Dr. T Wang
Research Topic(s): X-linked intellectual disability; Brain development and disorders in cognitive function and behaviors

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Abimbola Aina
Research Topic(s): Maternal and Fetal Medicine

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Jean Anderson
Research Topic(s): Obstetrics/Gynecology Infectious Diseases; HIV

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Cynthia Argani
Research Topic(s): Maternal and Fetal Medicine

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Jessica Bienstock
Research Topic(s): Maternal-Fetal Medicine; Research in educational techniques

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Karin Blakemore
Research Topic(s): Maternal and Fetal Medicine; Prenatal Genetics

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Mostafa Borahay
Research Topic(s): Uterine Fibroid; Minimally Invasive Gynecologic Surgery

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Irina Burd
Research Topic(s): Maternal and Fetal Medicine

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Anne Burke
Research Topic(s): Contraception; Family Planning

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Grace Chen
Research Topic(s): Obstetric Fistula; Surgical Education; Surgical Skills assessment

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Betty Chou
Research Topic(s): Cervical Dysplasia; HPV Vaccine; Medical Education

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Jenell S. Coleman
Research Topic(s): Gynecology

Department/Division: Gynecology and Obstetrics

Faculty Name: Dr. Amanda Fader
Research Topic(s): Gyn Oncology

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Jairo Garcia
Research Topic(s): Reproductive Endocrinology; In vitro fertilization

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Ernest Graham
Research Topic(s): Maternal and Fetal Medicine

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Victoria Handa
Research Topic(s): Urogynecology

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Janice Henderson
Research Topic(s): Maternal and Fetal Medicine

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Nancy Hueppchen
Research Topic(s): Maternal and Fetal Medicine; Medical Education

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Shari Lawson
Research Topic(s): Ambulatory Practice; Medical Student/Resident Education

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Lorraine Milio
Research Topic(s): Maternal and Fetal Medicine

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Donna Neale
Research Topic(s): Maternal and Fetal Medicine

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Silka Patel
Research Topic(s): General Obstetrics and gynecology; Medical Education

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Andrew Satin
Research Topic(s): Medical Simulation

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Wen Shen
Research Topic(s): General Gynecology; Menopause; Cervical Dysplasia; Abnormal Uterine Bleeding

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Cornelia Trimble
Research Topic(s): Gynecologic Pathology; Special clinical-pathologic projects; Therapeutic HPV Vaccines; Cervical Dysplasia

Department/Division: Gynecology and Obstetrics
Faculty Name: Dr. Frank Witter
Research Topic(s): Maternal and Fetal Medicine

Department/Division: Gynecology and Obstetrics

Faculty Name: Dr. Howard Zacur
Research Topic(s): Reproductive Endocrinology

Department/Division: Medicine - Cardiology
Faculty Name: Dr. S. Achuff
Research Topic(s): Clinical cardiology

Department/Division: Medicine - Cardiology
Faculty Name: Dr. A Arbab-Zadeh
Research Topic(s): Coronary circulation and disease; coronary/cardiac imaging; coronary risk prediction

Department/Division: Medicine - Cardiology
Faculty Name: Dr. H. Ashikaga
Research Topic(s): Cardiac arrhythmias; cardiology; electrophysiology

Department/Division: Medicine - Cardiology
Faculty Name: Dr. T. Aversano
Research Topic(s): Arrhythmia; cardiology; cardiomyopathy; cardiovascular disease; clinical cardiology; coronary artery disease; general cardiology; heart disease; heart failure; hypertension

Department/Division: Medicine - Cardiology
Faculty Name: Dr. S. Bansal
Research Topic(s): Cardiac arrhythmias; cardiology; electrophysiology

Department/Division: Medicine - Cardiology
Faculty Name: Dr. R. Berger
Research Topic(s): Cardiac electrophysiology; hemodynamics of cardiac pacing; autonomic influences on cardiovascular system

Department/Division: Medicine - Cardiology
Faculty Name: Dr. S. Berkowitz
Research Topic(s): Cardiology

Department/Division: Medicine - Cardiology
Faculty Name: Dr. R. Bhatia
Research Topic(s): Cardiology

Department/Division: Medicine - Cardiology
Faculty Name: Dr. M. Blaha
Research Topic(s): Cardiology; preventative cardiology

Department/Division: Medicine - Cardiology
Faculty Name: Dr. R. Blumenthal
Research Topic(s): Atherosclerosis progression and regression; medical and interventional management of coronary artery disease

Department/Division: Medicine - Cardiology
Faculty Name: Dr. M. Brennan
Research Topic(s): Cardiology; cardiovascular disease; clinical cardiology; echocardiography; heart failure; hypertension; valvular disease

Department/Division: Medicine - Cardiology
Faculty Name: Dr. J.A. Brinker
Research Topic(s): Angiography; angioplasty; myocardial function

Department/Division: Medicine - Cardiology
Faculty Name: Dr. H. Calkins

Research Topic(s): Clinical and cellular electrophysiology

Department/Division: Medicine - Cardiology

Faculty Name: Dr. A. Cammarato

Research Topic(s): Basic investigation in molecular contractile physiology

Department/Division: Medicine - Cardiology

Faculty Name: Dr. M. Chacko

Research Topic(s): Coronary artery disease, peripheral arterial disease; carotid artery disease valvular heart disease; structural heart disease; acute coronary syndromes; stents; cardiac critical care

Department/Division: Medicine - Cardiology

Faculty Name: Dr. N. Chandra-Strobos

Research Topic(s): Cardiopulmonary resuscitation

Department/Division: Medicine - Cardiology

Faculty Name: Dr. O. Cingolani

Research Topic(s): Heart failure; hypertension; cardiac remodeling and hypertrophy

Department/Division: Medicine - Cardiology

Faculty Name: Dr. M. Corretti

Research Topic(s): Ultrasound assessment of endothelial function/vascular physiology; echocardiography; valve disease

Department/Division: Medicine - Cardiology

Faculty Name: Dr. S. Desai

Research Topic(s): Cardiology; cardiovascular disease; heart disease

Department/Division: Medicine - Cardiology

Faculty Name: Dr. R. George

Research Topic(s): Cardiovascular CT; nuclear cardiology; myocardial perfusion imaging; non-invasive imaging of coronary atherosclerosis; subclinical atherosclerosis

Department/Division: Medicine - Cardiology

Faculty Name: Dr. G Gerstenblith

Research Topic(s): Age changes in cardiac function

Department/Division: Medicine - Cardiology

Faculty Name: Dr. S.H. Gottlieb

Research Topic(s): Ischemic heart disease; diabetes and heart disease

Department/Division: Medicine - Cardiology

Faculty Name: Dr. L Griffith

Research Topic(s): Clinical cardiology

Department/Division: Medicine - Cardiology

Faculty Name: Dr. T. Hailu

Research Topic(s): Cardiology; echocardiography and nuclear cardiology; heart disease; nuclear stress tests; transesophageal echocardiography

Department/Division: Medicine - Cardiology

Faculty Name: Dr. H. R. Halperin

Research Topic(s): Biomedical engineering and biomechanics; electrophysiology

Department/Division: Medicine - Cardiology

Faculty Name: Dr. A. Hays

Research Topic(s): Cardiac MR; proton spectroscopy; coronary endothelial function; diabetic

cardiomyopathy; echocardiography

Department/Division: Medicine - Cardiology

Faculty Name: Dr. C. Hwang

Research Topic(s): Acute coronary care; percutaneous coronary intervention; percutaneous treatment of valvular stenosis; pericardiocentesis; peripheral angiography; trans-radial intervention

Department/Division: Medicine - Cardiology

Faculty Name: Dr. P. Johnston

Research Topic(s): Stem cell therapy; interventional cardiology; coronary disease

Department/Division: Medicine - Cardiology

Faculty Name: Dr. S. Jones

Research Topic(s): Lipids and cardiovascular risk stratification

Department/Division: Medicine - Cardiology

Faculty Name: Dr. D. Judge

Research Topic(s): Pathogenesis of Marfan Syndrome; identification of genes responsible for familial cardiomyopathies

Department/Division: Medicine - Cardiology

Faculty Name: Dr. E. Kasper

Research Topic(s): Cardiomyopathy; Heart Transplantation; Clinical Cardiology

Department/Division: Medicine - Cardiology

Faculty Name: Dr. D.A. Kass

Research Topic(s): Hemodynamics; left ventricular function

Department/Division: Medicine - Cardiology

Faculty Name: Dr. M. Kelemen

Research Topic(s): Exercise

Department/Division: Medicine - Cardiology

Faculty Name: Dr. A. Koldaivelu

Research Topic(s): MR imaging of intermingled arrhythmic and non-arrhythmic heartbeats

Department/Division: Medicine - Cardiology

Faculty Name: Dr. B Kral

Research Topic(s): Genetic and biological mechanisms of premature coronary artery disease; noninvasive imaging of coronary atherosclerosis; stress myocardial perfusion imaging; cardiovascular and genetic epidemiology; association of mental stress and cardiovascular disease

Department/Division: Medicine - Cardiology

Faculty Name: Dr. C. Kwon

Research Topic(s): Basic Investigation in Cardiovascular Development

Department/Division: Medicine - Cardiology

Faculty Name: Dr. E.G. Lakatta

Research Topic(s): Age and the cardiovascular system

Department/Division: Medicine - Cardiology

Faculty Name: Dr. J. Lima

Research Topic(s): Left ventricular remodeling; mitral valve disease; transesophageal echocardiography; MRI; CT

Department/Division: Medicine - Cardiology

Faculty Name: Dr. J. Marine

Research Topic(s): Electrophysiology

Department/Division: Medicine - Cardiology

Faculty Name: Dr. S. Mayer

Research Topic(s): Echocardiography

Department/Division: Medicine - Cardiology

Faculty Name: Dr. E. Michos

Research Topic(s): Preventive cardiology; heart disease in women; subclinical atherosclerosis imaging; vitamin D deficiency and cardiovascular risk

Department/Division: Medicine - Cardiology

Faculty Name: Dr. J. Miller

Research Topic(s): Acute coronary syndromes; antiplatelet and antithrombotic therapy; microvascular obstruction; multidetector computed tomography angiography; novel therapies for myocardial infarction; angiogenesis; peripheral vascular disease; novel therapies for peripheral vascular disease; claudication; angiogenesis

Department/Division: Medicine - Cardiology

Faculty Name: Dr. M. Mukherjee

Research Topic(s): Acute coronary care; coronary artery disease; general cardiology; cardiovascular diseases; echocardiography; heart disease prevention and treatment in women, hypertension, noninvasive imaging; pulmonary hypertension

Department/Division: Medicine - Cardiology

Faculty Name: Dr. S. Nazarian

Research Topic(s): Clinical electrophysiology

Department/Division: Medicine - Cardiology

Faculty Name: Dr. C. Ndumele

Research Topic(s): Acute coronary care; coronary artery disease; coronary care unit; dyslipidemia; high cholesterol; ischemic heart disease; preventive cardiology; risk factor modification

Department/Division: Medicine - Cardiology

Faculty Name: Dr. B. O'Rourke

Research Topic(s): Cellular physiology; mitochondrial metabolism

Department/Division: Medicine - Cardiology

Faculty Name: Dr. P. Ouyang

Research Topic(s): Cardiovascular pharmacology

Department/Division: Medicine - Cardiology

Faculty Name: Dr. J. Porterfield

Research Topic(s): General cardiology; echocardiography

Department/Division: Medicine - Cardiology

Faculty Name: Dr. W. Post

Research Topic(s): Echocardiography and hypertension

Department/Division: Medicine - Cardiology

Faculty Name: Dr. E Ratchford

Research Topic(s): Claudication/peripheral arterial disease; carotid stenosis

Department/Division: Medicine - Cardiology

Faculty Name: Dr. J. Resar

Research Topic(s): Interventional cardiology

Department/Division: Medicine - Cardiology

Faculty Name: Dr. J. Rickard

Research Topic(s): Electrophysiology

Department/Division: Medicine - Cardiology

Faculty Name: Dr. R. Rouf

Research Topic(s): Heart failure

Department/Division: Medicine - Cardiology

Faculty Name: Dr. S. Russell

Research Topic(s): Heart failure; cardiac transplantation

Department/Division: Medicine - Cardiology

Faculty Name: Dr. M. Salameh

Research Topic(s): Vascular disease and diagnostics

Department/Division: Medicine - Cardiology

Faculty Name: Dr. S. Schulman

Research Topic(s): Clinical trials; hypertension

Department/Division: Medicine - Cardiology

Faculty Name: Dr. E. P. Shapiro

Research Topic(s): Echocardiography

Department/Division: Medicine - Cardiology

Faculty Name: Dr. H. Silber

Research Topic(s): Acute coronary care; MRI

Department/Division: Medicine - Cardiology

Faculty Name: Dr. S. Sinha

Research Topic(s): Clinical Electrophysiology

Department/Division: Medicine - Cardiology

Faculty Name: Dr. D. Spragg

Research Topic(s): Clinical electrophysiology

Department/Division: Medicine - Cardiology

Faculty Name: Dr. K. Stewart

Research Topic(s): Exercise training for cardiovascular disease and heart failure; exercise training for diabetes and hypertension; weight loss effects through diet and exercise on body composition and CV health; exercise for cancer patients; increasing physical activity in the community

Department/Division: Medicine - Cardiology

Faculty Name: Dr. N. Strahan

Research Topic(s): Echocardiography

Department/Division: Medicine - Cardiology

Faculty Name: Dr. H. Tandri

Research Topic(s): Clinical electrophysiology

Department/Division: Medicine - Cardiology

Faculty Name: Dr. J. Tanio

Research Topic(s): Clinical cardiology

Department/Division: Medicine - Cardiology

Faculty Name: Dr. R. Tedford

Research Topic(s): Cardiac transplant; cardiology; cardiomyopathy; congestive heart failure;

endomyocardial biopsy; heart failure; right heart catheterization; mechanical circulatory support

Department/Division: Medicine - Cardiology

Faculty Name: Dr. D. Thiemann

Research Topic(s): Information systems; angioplasty

Department/Division: Medicine - Cardiology

Faculty Name: Dr. G. Tomaselli

Research Topic(s): Cellular electrophysiology

Department/Division: Medicine - Cardiology

Faculty Name: Dr. T. A. Traill

Research Topic(s): Regional cardiac function; congenital heart disease

Department/Division: Medicine - Cardiology

Faculty Name: Dr. C. Valdiviezo-Schlomp

Research Topic(s): Cardiology; cardiovascular disease; cardiovascular disease in women; heart disease; heart disease prevention and treatment in women; non-invasive imaging; preventive cardiology

Department/Division: Medicine - Cardiology

Faculty Name: Dr. G. Walford

Research Topic(s): Cardiology; cardiovascular disease; heart disease

Department/Division: Medicine - Cardiology

Faculty Name: Dr. J. Weiss

Research Topic(s): Ultrasound imaging; ventricular function

Department/Division: Medicine - Cardiology

Faculty Name: Dr. R. Weiss

Research Topic(s): Cardiac metabolism; NMR

Department/Division: Medicine - Cardiology

Faculty Name: Dr. M. Williams

Research Topic(s): Platelets and acute coronary syndromes

Department/Division: Medicine - Cardiology

Faculty Name: Dr. S. Williams

Research Topic(s): Cardiology; cardiovascular disease; heart disease

Department/Division: Medicine - Cardiology

Faculty Name: Dr. I. Wittstein

Research Topic(s): Heart failure; clinical trials

Department/Division: Medicine - Cardiology

Faculty Name: Dr. K. Wu

Research Topic(s): Echocardiography; MRI

Department/Division: Medicine - Cardiology

Faculty Name: Dr. S. Zakaria

Research Topic(s): Cardiac disease; cardiology; cardiovascular disease; cardiovascular medicine; critical care medicine; heart disease

Department/Division: Medicine - Cardiology

Faculty Name: Dr. R. Ziegelstein

Research Topic(s): Clinical cardiology; depression and its effects on cardiac diseases

Department/Division: Medicine - Clinical Pharmacology

Faculty Name: Dr. K. Dooley
Research Topic(s): Anti-tuberculosis drugs; co-treatment of HIV and tuberculosis

Department/Division: Medicine - Clinical Pharmacology
Faculty Name: Dr. C. Flexner
Research Topic(s): Anti-HIV drugs; drug metabolism and transport; mechanisms of drug action and toxicity

Department/Division: Medicine - Clinical Pharmacology
Faculty Name: Dr. Craig Hendrix
Research Topic(s): Microbicide prophylaxis

Department/Division: Medicine - Clinical Pharmacology
Faculty Name: Dr. B. Petty
Research Topic(s): Clinical pharmacology; Phase I, II studies

Department/Division: Medicine - Clinical Pharmacology
Faculty Name: Dr. T. Shapiro
Research Topic(s): Antiparasitic chemotherapy

Department/Division: Medicine - Endocrinology
Faculty Name: Dr. T. Brown
Research Topic(s): Endocrine problems in HIV; diabetes mellitus; osteoporosis; hypogonadism

Department/Division: Medicine - Endocrinology
Faculty Name: Dr. J. Echouffo Tcheugui
Research Topic(s): diabetes mellitus and cardiovascular diseases, epidemiology

Department/Division: Medicine - Endocrinology
Faculty Name: Dr. A. Dobs
Research Topic(s): Hyperlipidemia and diabetes mellitus; gonadal disorders

Department/Division: Medicine - Endocrinology
Faculty Name: Dr. T. Donner
Research Topic(s): Diabetes mellitus

Department/Division: Medicine - Endocrinology
Faculty Name: Dr. A. Hamrahian
Research Topic(s): adrenal disorders

Department/Division: Medicine - Endocrinology
Faculty Name: Dr. R. Kalyani
Research Topic(s): Diabetes mellitus

Department/Division: Medicine - Endocrinology
Faculty Name: Dr. J. Mammen
Research Topic(s): Thyroid disorders

Department/Division: Medicine - Endocrinology
Faculty Name: Dr. N. Mathioudakis
Research Topic(s): Diabetes mellitus

Department/Division: Medicine - Endocrinology
Faculty Name: Dr. K. Moseley
Research Topic(s): Metabolic bone disorders

Department/Division: Medicine - Endocrinology
Faculty Name: Dr. R. Salvatori
Research Topic(s): Neuroendocrine and pituitary disorders

Department/Division: Medicine - Endocrinology
Faculty Name: Dr. P. Santhanam
Research Topic(s): thyroid disorders

Department/Division: Medicine - Endocrinology
Faculty Name: Dr. S. Sarkar
Research Topic(s): diabetes mellitus

Department/Division: Medicine - Endocrinology
Faculty Name: Dr. A. Sidhaye
Research Topic(s): cystic fibrosis related diabetes and bone diseases, diabetes mellitus

Department/Division: Medicine - Gastroenterology
Faculty Name: Dr. M. Canto
Research Topic(s): Therapeutic endoscopy; endoscopic ultrasonography, Barrett's esophagus; outcomes research in endoscopy

Department/Division: Medicine - Gastroenterology
Faculty Name: Dr. M. Donowitz
Research Topic(s): Diarrheal diseases; inflammatory bowel disease

Department/Division: Medicine - Gastroenterology
Faculty Name: Dr. Michael Goggins
Research Topic(s): Molecular biology of pancreatic cancer

Department/Division: Medicine - Gastroenterology
Faculty Name: Dr. J. Hamilton
Research Topic(s): Acute and chronic viral, alcoholic, nonalcoholic, autoimmune, cholestatic, and druginduced liver disease

Department/Division: Medicine - Gastroenterology
Faculty Name: Dr. M. Khashab
Research Topic(s): Pancreatitis; pancreatic cyst; endoscopic ultrasound; ERCP

Department/Division: Medicine - Gastroenterology
Faculty Name: Dr. A. Lennon
Research Topic(s): Pancreatitis; pancreatic cyst; endoscopic ultrasound; ERCP

Department/Division: Medicine - Gastroenterology
Faculty Name: Dr. S. Meltzer
Research Topic(s): Gastrointestinal cancer and precancer biomarker discovery; development and validation; genomics, epigenomics, and bioinformatics; early detection of cancer; outcomes research in cancer and precancer

Department/Division: Medicine - Gastroenterology
Faculty Name: Dr. G. Mullin
Research Topic(s): The role of early intervention of nutritional support in the hospitalized setting to improve outcomes

Department/Division: Medicine - Gastroenterology
Faculty Name: Dr. R. Sarker

Research Topic(s): Signaling pathway of human intestinal Na⁺/H⁺ exchanger 2 (NHE3) regulation; transactivation of NHE3; knock-down NHE3 regulatory proteins by shRNA

Department/Division: Medicine - Gastroenterology

Faculty Name: Dr. V. Singh

Research Topic(s): Acute and chronic pancreatitis; therapeutic endoscopy; resource utilization and cost effectiveness in pancreaticobiliary disease

Department/Division: Medicine - Gastroenterology

Faculty Name: Dr. C.M. Tse

Research Topic(s): Function and regulation of sodium/hydrogen exchange-2 isoform; molecular biology of nucleoside transporters; roles in nutrient and drug absorption

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. A. Alvanzo

Research Topic(s): Substance use disorders and posttraumatic stress with emphasis on relationship between physical, sexual, and/or emotional abuse and substance abuse in women; race/ethnicity and sex differences in substance use disorders; screening and brief interventions for substance misuse

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. L Appel

Research Topic(s): Prevention of blood pressure-related cardiovascular and kidney diseases through pharmacologic and non-pharmacologic approaches, often nutrition-based

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. B Ashar

Research Topic(s): Dietary supplements; disease prevention; complementary and alternative medicine; physician conflicts of interest; anemia; medical education

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. E. Bass

Research Topic(s): Evidence-based medicine; medical and surgical outcomes research; cost effectiveness; community health partnerships; medical education and curriculum development

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. M. Beach

Research Topic(s): Physician-patient relationships and communication, respect, bioethics, health care quality for vulnerable populations; HIV; sickle-cell disease.

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. D. M. Becker

Research Topic(s): Genetics/epidemiology of premature cardiovascular disease (CVD); molecular and physiologic aspects of CVD risk; community-based CVD prevention; social/behavioral science; health disparities

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. W. Bennett

Research Topic(s): Women's health; diabetes and obesity

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. Z. Berger

Research Topic(s): Patient-provider communication; bioethics; clinical epidemiology; the primary care physician's role in cancer control

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. G. Berkenblit

Research Topic(s): Improving resident training in HIV outpatient care; design and evaluation of an

internet-based curriculum

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. R. Boonyasai

Research Topic(s): Care coordination at hospital discharge; teamwork; quality improvement for chronic disease; hypertension

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. L. Boulware

Research Topic(s): Quality and access to care in chronic kidney disease; organ donation; racial and ethnic disparities

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. D. Brotman

Research Topic(s): Hospital medicine; perioperative medicine; hemostasis and thrombosis; the physiological stress response

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. R. Brown

Research Topic(s): Obesity

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. G. Chander

Research Topic(s): Clinical epidemiology of HIV/AIDS and hepatitis C

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. J. Clark

Research Topic(s): Obesity, diabetes, and related conditions including nonalcoholic fatty liver disease (NAFLD)

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. S. Clever

Research Topic(s): Patient-physician communication; medical education

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. J. Cofrancesco

Research Topic(s): Medical education; HIV care and antiretroviral management; HIV lipodystrophy and metabolic complications

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. L. Cooper

Research Topic(s): Patient-physician relationship and communication; patient-centered care; race/ethnic disparities

Department/Division: Medicine - General Internal Medicine

Faculty Name: Ms. A. Dalcin

Research Topic(s): Obesity; prevention and treatment of cardiovascular disease; health disparities

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. G. Daumit

Research Topic(s): Medical comorbidity; access to and quality of primary medical care for individuals with severe and persistent medical illness; health disparities

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. L. Feldman

Research Topic(s): Resident education; evidence-based medicine; consult medicine

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. A. Fitzgerald

Research Topic(s): Medical education; leadership skills training; primary care; Johns Hopkins Medicine International patient care; health care disparities education

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. L. Florea

Research Topic(s): Algorithms and tools for cDNA and genomic sequence alignment; comparative and evolutionary genomics; gene annotation; alternative splicing and its regulation; miRNA genomics; peptide-based vaccine design

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. J Flynn

Research Topic(s): Arthritis; ambulatory education and the delivery of primary care in an academic setting

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. D. Ford

Research Topic(s): Primary care research; epidemiology and treatment of depression; internet health applications; physician health

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. G. Geller

Research Topic(s): Communication and decision-making; ethics and professionalism; genetics; women's health; medical education; complementary and alternative medicine

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. M. Goyal

Research Topic(s): Effects of meditation on chronic pain and symptoms; stress and overall health; lowcost means to improve health in rural India; ethics

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. R. Greer

Research Topic(s): Chronic kidney disease; primary care; ethnic/race disparities

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. K. Gudzone

Research Topic(s): Obesity; patient-physician communication; social networks

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. C. Herzke

Research Topic(s): Resident and student education; infectious diseases-notably infection control; quality improvement

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. F. Hill-Briggs

Research Topic(s): Chronic disease self-management; disability; behavioral intervention trials; health disparities; functional impairment and disability

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. M. Hughes

Research Topic(s): Clinical bioethics; research ethics; palliative care; philosophy of medicine; ambulatory care

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. M. Lazo

Research Topic(s): Nonalcoholic fatty liver disease; diabetes; epidemiologic studies

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. D. Levine

Research Topic(s): Community-based prevention of cardiovascular disease; behavioral aspects of prevention

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. H. Levy

Research Topic(s): General internal medicine; genetics

Department/Division: Medicine - General Internal Medicine

Faculty Name: Mr. D. Lichtman

Research Topic(s): Medical procedures; hospitalist medicine

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. S. Marinopoulos

Research Topic(s): Evidence-based medicine; health care administration

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. M. Markowski

Research Topic(s): Anti-inflammatory agents and cancer incidence; prostate cancer; men's health; hospitalist medicine

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. N. Maruthur

Research Topic(s): Primary care; individualized medicine for the prevention and treatment of type 2 diabetes and obesity; pharmacogenomics of type 2 diabetes; comparative effectiveness

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. H. Michtalk

Research Topic(s): Quality improvement and systems management; patient safety issues especially as related to patient census; transitions of care from acute to primary care

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. E. Miller

Research Topic(s): Hypertension; clinical trials; non-pharmacologic therapies; antioxidants

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. R. Miller

Research Topic(s): Women's health; physician practice issues; medical education

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. A. Monroe

Research Topic(s): Cardiovascular disease risk reduction in HIV-infected patients; optimizing care of HIV-infected patients with medical comorbidities

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. R.D. Moore

Research Topic(s): Pharmacoepidemiology; outcomes research in HIV treatment; epidemiology of substance abuse and alcoholism

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. T. Niessen

Research Topic(s): Medical education; patient safety; quality improvement

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. A. Pahwa

Research Topic(s): Hospitalist medicine

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. K. Peairs

Research Topic(s): Cancer survivorship and screening; medical education

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. M. Perlea

Research Topic(s): Computational gene finding; splice site prediction; sequence motif finding

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. G. Prokopowicz

Research Topic(s): General internal medicine; medical informatics; hypertension

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. R. Qayyum

Research Topic(s): Platelet biology; hemostasis and thrombosis; pharmacogenomics of anti-platelet agents; genetic epidemiology; systematic reviews; meta-analysis

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. P. Ranasinghe

Research Topic(s): Internal and preventive medicine; international health; health and wellness

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. K. Robinson

Research Topic(s): Evidence-based health care; health informatics

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. S. Salzberg

Research Topic(s): Genomics; bioinformatics; gene finding; genome assembly; genome technology

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. J. Segal

Research Topic(s): Pharmacoepidemiology; comparative effectiveness research including evidencebased review; advanced methods for using observational data; evaluation of diagnostic tests; diabetes; venous thrombosis and blood disorders

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. Z. Siddiqui

Research Topic(s): Clinical reasoning; preoperative medicine; international medicine

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. S. Singh

Research Topic(s): Pharmacoepidemiology; drug safety; comparative effectiveness; health equality

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. S. Sisson

Research Topic(s): Ambulatory medicine; medical education; community outreach

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. C. Snyder

Research Topic(s): Quality of life for cancer patients undergoing treatment; coordination of care for cancer survivors; patient-reported outcomes assessment; quality of medical care; cancer outcomes and health services research

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. R. Stewart

Research Topic(s): Medical education; preventive medicine; health outcomes; community outreach

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. J. Sugarman

Research Topic(s): Philosophical and empirical research in biomedical ethics

Department/Division: Medicine - General Internal Medicine

Faculty Name: Ms. L. Swartz

Research Topic(s): Project management; multi-center randomized controlled trials

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. D. Vaidya

Research Topic(s): Mechanisms of vascular dysfunction; assessment of cardiovascular risk factors

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. N. Wang

Research Topic(s): Longitudinal data analysis; statistical and epidemiologic methods; randomized controlled trials; multicenter studies

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. L.D. Wooster

Research Topic(s): Healthcare management; quality clinical outcomes; preventive care in pulmonary diseases; medical economics; medical education integrated into clinical practice

Department/Division: Medicine - General Internal Medicine

Faculty Name: Ms. L. Yanek

Research Topic(s): Cardiovascular disease in families and risk factor modification

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. H. Yeh

Research Topic(s): Epidemiology; diabetes; obesity; cancer; lung functions

Department/Division: Medicine - General Internal Medicine

Faculty Name: Dr. J. Young

Research Topic(s): Genetic epidemiology; novel risk factors for CVD; hypertension; insulin resistance

Department/Division: Medicine - Genetic Medicine

Faculty Name: Dr. J Bodurtha

Research Topic(s): Genetic risk communication; Family history; Dysmorphology; Public health genetics, community engagement

Department/Division: Medicine - Genetic Medicine

Faculty Name: Dr. Garry R. Cutting

Research Topic(s): Cystic Fibrosis; Modifier genes; DNA diagnostics

Department/Division: Medicine - Genetic Medicine

Faculty Name: Dr. M Gunay-Aygun

Research Topic(s): Inborn errors of metabolism; Clinical genetics

Department/Division: Medicine - Genetic Medicine

Faculty Name: Dr. J Hoover-Fong

Research Topic(s): Skeletal dysplasias and chromosomal abnormalities

Department/Division: Medicine - Geriatric Medicine

Faculty Name: Dr. P. Abadir

Research Topic(s): Basic research mitochondria/frailty

Department/Division: Medicine - Geriatric Medicine
Faculty Name: Dr. A. Arbaje
Research Topic(s): Health services research on care transition

Department/Division: Medicine - Geriatric Medicine
Faculty Name: Dr. J. Barron
Research Topic(s): Primary care of older adults

Department/Division: Medicine - Geriatric Medicine
Faculty Name: Dr. M. Bellantoni
Research Topic(s): Osteoporosis; post-acute care

Department/Division: Medicine - Geriatric Medicine
Faculty Name: Dr. C. Boyd
Research Topic(s): Primary care; research on multimorbidity

Department/Division: Medicine - Geriatric Medicine
Faculty Name: Dr. J.R. Burton
Research Topic(s): Primary care; continence evaluations; geriatrics education

Department/Division: Medicine - Geriatric Medicine
Faculty Name: Dr. D. Cayea
Research Topic(s): Primary care; educational outcomes research

Department/Division: Medicine - Geriatric Medicine
Faculty Name: Dr. C. Christmas
Research Topic(s): Primary care; educational outcomes research

Department/Division: Medicine - Geriatric Medicine
Faculty Name: Dr. J. Colburn
Research Topic(s): Outpatient geriatric primary care

Department/Division: Medicine - Geriatric Medicine
Faculty Name: Dr. P. Colvin
Research Topic(s): Hip fracture geriatrics co-management service

Department/Division: Medicine - Geriatric Medicine
Faculty Name: Dr. S. Durso
Research Topic(s): Community-based geriatrics; consultation for complex medical illness

Department/Division: Medicine - Geriatric Medicine
Faculty Name: Dr. N. Fedarko
Research Topic(s): Bone metabolism; tumor progression

Department/Division: Medicine - Geriatric Medicine
Faculty Name: Dr. J. Finkelstein
Research Topic(s): Chronic disease informatics program

Department/Division: Medicine - Geriatric Medicine
Faculty Name: Dr. T. Finucane
Research Topic(s): Primary care; post-acute care; ethical issues regarding health care decisions

Department/Division: Medicine - Geriatric Medicine
Faculty Name: Dr. J. Hayashi
Research Topic(s): House calls

Department/Division: Medicine - Geriatric Medicine

Faculty Name: Dr. B. Leff

Research Topic(s): Primary care; new approaches to treating elderly patients at home

Department/Division: Medicine - Geriatric Medicine

Faculty Name: Dr. S. Leng

Research Topic(s): Post-acute care; molecular biology of aging and frailty

Department/Division: Medicine - Geriatric Medicine

Faculty Name: Dr. M. McNabney

Research Topic(s): Health care delivery in a capitated model; community-based long-term care

Department/Division: Medicine - Geriatric Medicine

Faculty Name: Dr. E. Oh

Research Topic(s): Clinical dementia care; biomarkers for Alzheimer's disease research

Department/Division: Medicine - Geriatric Medicine

Faculty Name: Dr. R. Varadhan

Research Topic(s): Mathematical modeling of multisystem dysregulation in frailty

Department/Division: Medicine - Geriatric Medicine

Faculty Name: Dr. J. Walston

Research Topic(s): Post-acute care; genetics and clinical research applications to diabetes in the elderly

Department/Division: Medicine - Geriatric Medicine

Faculty Name: Dr. Q. Xue

Research Topic(s): Biostatistical models of frailty

Department/Division: Medicine - Geriatric Medicine

Faculty Name: Dr. S. Yasar

Research Topic(s): Dementia; clinical care and research

Department/Division: Medicine - Hematology

Faculty Name: Dr. R. Brodsky

Research Topic(s): Bone marrow failure disorder

Department/Division: Medicine - Hematology

Faculty Name: Dr. J. Gerber

Research Topic(s): Leukemic stem cell biology

Department/Division: Medicine - Hematology

Faculty Name: Dr. T. S. Kickler

Research Topic(s): Immunohematology

Department/Division: Medicine - Hematology

Faculty Name: Dr. S. Lanzkron

Research Topic(s): Anemias and other bleeding disorders, with emphasis on sickle cell disorders

Department/Division: Medicine - Hematology

Faculty Name: Dr. M. McDevitt

Research Topic(s): Myeloproliferative and myelodysplastic disorders

Department/Division: Medicine - Hematology

Faculty Name: Dr. A. Merchant

Research Topic(s): Cancer stem cells

Department/Division: Medicine - Hematology

Faculty Name: Dr. A. Moliterno
Research Topic(s): Polycythemia Vera

Department/Division: Medicine - Hematology
Faculty Name: Dr. P. Ness
Research Topic(s): Transfusion practices

Department/Division: Medicine - Hematology
Faculty Name: Dr. S. Shanbhag
Research Topic(s): General hematology and lymphoproliferative disorders

Department/Division: Medicine - Hematology
Faculty Name: Dr. M. Streiff
Research Topic(s): Hemorrhagic and thrombotic disorders

Department/Division: Medicine - Infectious Diseases
Faculty Name: Dr. A. Andrade
Research Topic(s): HIV clinical trials

Department/Division: Medicine - Infectious Diseases
Faculty Name: Dr. P. Auwaerter
Research Topic(s): Lyme disease; general ID clinical care

Department/Division: Medicine - Infectious Diseases
Faculty Name: Dr. R. Avery
Research Topic(s): Transplant and oncology infectious diseases

Department/Division: Medicine - Infectious Diseases
Faculty Name: Dr. A. Balagopal
Research Topic(s): HIV/HCV pathogenesis

Department/Division: Medicine - Infectious Diseases
Faculty Name: Dr. S. Berry
Research Topic(s): HIV health outcomes

Department/Division: Medicine - Infectious Diseases
Faculty Name: Dr. W. Bishai
Research Topic(s): Tuberculosis

Department/Division: Medicine - Infectious Diseases
Faculty Name: Dr. J. Blankson
Research Topic(s): HIV pathogenesis

Department/Division: Medicine - Infectious Diseases
Faculty Name: Dr. R. Bollinger
Research Topic(s): Host defense in HIV; tropical infections

Department/Division: Medicine - Infectious Diseases
Faculty Name: Dr. R. Chaisson
Research Topic(s): Mycobacterial infections; HIV/AIDS

Department/Division: Medicine - Infectious Diseases
Faculty Name: Dr. L. Chang
Research Topic(s): International HIV

Department/Division: Medicine - Infectious Diseases
Faculty Name: Dr. S. Cosgrove

Research Topic(s): Infection control and antibiotic control

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. A. Cox

Research Topic(s): Pathogenesis of Hepatitis C

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. C. Flexner

Research Topic(s): AIDS; clinical pharmacology

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. C. Gaydos

Research Topic(s): Chlamydia pneumonia and STDs

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. K. Gebo

Research Topic(s): HCV and HIV databases

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. K. Ghanem

Research Topic(s): Sexually transmitted infections

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. D. Griffin

Research Topic(s): Pathogenesis of viral infections of the central nervous system

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. A. Gupta

Research Topic(s): HIV and co-morbidities management research in resource-limited settings

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. C. Hoffman

Research Topic(s): International HIV

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. N. Hynes

Research Topic(s): STD's; tropical medicine

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. P. Karakousis

Research Topic(s): Tuberculosis

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. J. Keruly

Research Topic(s): Epidemiology and service utilization in HIV management

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. G. Kirk

Research Topic(s): HCV Epidemiology

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. G. Lucas

Research Topic(s): HIV and substance abuse

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. L. Maragakis

Research Topic(s): Infection control

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. R. McKenzie

Research Topic(s): Travel medicine; HIV

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. M. Melia

Research Topic(s): ID and HIV clinical care

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. E. Nuermberger

Research Topic(s): TB and pneumonia

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. W. Osburn

Research Topic(s): Neutralizing antibody responses in HCV infection; role of CCR5 in clearance of HBV

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. T. Perl

Research Topic(s): Hospital infection control

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. T.C. Quinn

Research Topic(s): Sexually transmitted diseases; chlamydia; AIDS

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. S. Ray

Research Topic(s): Hepatitis C virology

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. A. Rompalo

Research Topic(s): Sexually transmitted diseases

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. C. Sears

Research Topic(s): Mechanisms of diarrhea

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. M. Shah

Research Topic(s): TB diagnostics

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. S. Shoham

Research Topic(s): Transplant and oncology infectious diseases

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. J. Siliciano

Research Topic(s): Pharmacodynamics of HIV-1 drugs; mechanisms of viral persistence

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. R. Siliciano

Research Topic(s): Pharmacodynamics of HIV-1 drugs; mechanisms of viral persistence

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. M. Sulkowski

Research Topic(s): Hepatitis

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. C. Thio

Research Topic(s): Viral Hepatitis

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. D. Thomas

Research Topic(s): Hepatitis

Department/Division: Medicine - Infectious Diseases

Faculty Name: Dr. J. Zenilman

Research Topic(s): Sexually transmitted diseases; H. simplex; HIV

Department/Division: Medicine - Nephrology

Faculty Name: Dr. M. Atta

Research Topic(s): HIV kidney disease; acute kidney disease; metabolic bone disease; hypertension

Department/Division: Medicine - Nephrology

Faculty Name: Dr. M. Choi

Research Topic(s): Electrolyte disorders; nephrolithiasis; glomerular disease

Department/Division: Medicine - Nephrology

Faculty Name: Dr. M. Estrella

Research Topic(s): HIV; Diabetic nephropathy

Department/Division: Medicine - Nephrology

Faculty Name: Dr. D. Fine

Research Topic(s): SLE; HIV; glomerular kidney disease; toxin related kidney disease

Department/Division: Medicine - Nephrology

Faculty Name: Dr. P. Scheel

Research Topic(s): Dialysis vascular access; dialysis; retroperitoneal fibrosis; acute kidney injury

Department/Division: Medicine - Nephrology

Faculty Name: Dr. C. Sperati

Research Topic(s): Hypertension; glomerular disease; electrolyte disorders

Department/Division: Medicine - Nephrology

Faculty Name: Dr. S. Turban

Research Topic(s): Chronic kidney disease; hypertension

Department/Division: Medicine - Nephrology

Faculty Name: Dr. T. Watnick

Research Topic(s): Genetic diseases of the kidney

Department/Division: Medicine - Pulmonary & Critical Care Medicine

Faculty Name: Dr. N. Aggarwal

Research Topic(s): Acute lung injury; gene expression

Department/Division: Medicine - Pulmonary & Critical Care Medicine

Faculty Name: Dr. R. Aurora

Research Topic(s): Sleep medicine

Department/Division: Medicine - Pulmonary & Critical Care Medicine

Faculty Name: Dr. S. Bose

Research Topic(s): Chronic obstructive pulmonary disease; asthma; vitamin D deficiency

Department/Division: Medicine - Pulmonary & Critical Care Medicine

Faculty Name: Dr. M. Boyle
Research Topic(s): Adult cystic fibrosis; clinical cystic fibrosis research

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. R. Brower

Research Topic(s): Critical care medicine; adult respiratory distress syndrome

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. W. Checkley

Research Topic(s): Critical care medicine; acute lung injury; international clinical trials

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. F. D'Alessio

Research Topic(s): Acute lung injury resolution

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. M. Damarla

Research Topic(s): Endothelial barrier dysfunction; MAP Kinase signaling in apoptosis-induced ventilator-associated lung injury

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. R. Damico

Research Topic(s): Endothelial cell apoptosis; LPS-induced acute lung injury

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. S. Danoff

Research Topic(s): Transcription genes, neuronal development, BAP135 protein; interstitial lung disease

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. E. Daugherty

Research Topic(s): Infection prevention in the ICU; critical care during epidemics

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. G. Diette

Research Topic(s): Asthma outcomes; quality of care, quality improvement

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. D. Feller-Kopman

Research Topic(s): Interventional pulmonology

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. H. Fessler

Research Topic(s): Cardiopulmonary interactions; intensive care

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. B. Garibaldi

Research Topic(s): Idiopathic pulmonary fibrosis; interstitial lung disease

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. D. Hager

Research Topic(s): Critical care medicine; catastrophic event preparedness and response

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. P. Hassoun

Research Topic(s): Pulmonary hypertension; xanthine oxidoreductase in acute lung injury

Department/Division: Medicine - Pulmonary & Critical Care Medicine

Faculty Name: Dr. M. Horton
Research Topic(s): Interstitial lung disease; idiopathic pulmonary fibrosis; extra cellular matrix;
chemokines

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. J. Jun
Research Topic(s): Sleep medicine; obstructive sleep apnea

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. B. Kim
Research Topic(s): Pulmonary hypertension; xanthine oxidoreductase in acute lung injury

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. L. King
Research Topic(s): Acute lung injury; critical care; epithelial cell biology

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. J. Kirkness
Research Topic(s): Sleep disordered breathing

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. T. Kolb
Research Topic(s): Pulmonary arterial hypertension; vascular remodeling; acute lung injury

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. N. Lechtzin
Research Topic(s): Neuromuscular disease; cystic fibrosis

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. M. Liu
Research Topic(s): Studies of asthma and pathogenesis and therapy

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. S. Mathai
Research Topic(s): Pulmonary hypertension; scleroderma in pulmonary hypertension

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. M. McCormack
Research Topic(s): Asthma; COPD; environmental impacts on airway disease

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. C. Merlo
Research Topic(s): Cystic Fibrosis epidemiology; lung transplant

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. D. Moller
Research Topic(s): Sarcoidosis; Molecular and cellular immunology of lung diseases; mechanisms of Tcell
activation

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. D. Needham
Research Topic(s): Critical care medicine; ventilator-induced lung injury outcomes

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. E. Neptune
Research Topic(s): Receptor signaling; neutrophils

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. J. Orens

Research Topic(s): Lung transplantation; emphysema; lung volume reduction surgery; exercise physiology

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. S. Patil

Research Topic(s): Neuromodulation of upper airway obstruction during sleep; testing of sleep apnea treatment devices

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. D. Pearse

Research Topic(s): Ischemia reperfusion lung injury; airway smooth muscle hyper-responsiveness

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. V. Polotsky

Research Topic(s): Cardiorespiratory abnormalities in obesity and sleep disorders

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. N. Punjabi

Research Topic(s): Clinical epidemiology; pulmonary and sleep medicine

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. C. Rand

Research Topic(s): Behavioral pulmonology; patient compliance in asthma treatment; smoking cessation

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. K. Reikert

Research Topic(s): Asthma Disparities; Cystic Fibrosis

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. H. Schneider

Research Topic(s): Sleep disordered breathing

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. A.R. Schwartz

Research Topic(s): Respiratory and upper airway physiology; sleep apnea

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. J. Sham

Research Topic(s): Electrophysiology and calcium homeostasis in pulmonary and cardiac myocytes and smooth muscle transport

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. L. Shimoda

Research Topic(s): Pulmonary vascular biology; oxidative stress; endothelial cell signaling

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. R. Sidhaye

Research Topic(s): Aquaporins in the lung; epithelial cell biology; acute lung injury

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. L. Silhan

Research Topic(s): Lung transplantation; interstitial lung disease

Department/Division: Medicine - Pulmonary & Critical Care Medicine
Faculty Name: Dr. P.L. Smith

Research Topic(s): Sleep Disordered Breathing

Department/Division: Medicine - Pulmonary & Critical Care Medicine

Faculty Name: Dr. P. Sosnay

Research Topic(s): Adult cystic fibrosis; genomics

Department/Division: Medicine - Pulmonary & Critical Care Medicine

Faculty Name: Dr. J.T. Sylvester

Research Topic(s): Pulmonary vascular biology; medical intensive care

Department/Division: Medicine - Pulmonary & Critical Care Medicine

Faculty Name: Dr. P.B. Terry

Research Topic(s): Pulmonary Physiology; medical ethics

Department/Division: Medicine - Pulmonary & Critical Care Medicine

Faculty Name: Dr. E. Wagner

Research Topic(s): Angiogenesis in the lung; bronchial vascular proliferation and function

Department/Division: Medicine - Pulmonary & Critical Care Medicine

Faculty Name: Dr. J. Wang

Research Topic(s): Calcium pathways in hypoxic pulmonary hypertension

Department/Division: Medicine - Pulmonary & Critical Care Medicine

Faculty Name: Dr. R.A. Wise

Research Topic(s): Cardiopulmonary physiology; autoimmune pulmonary disease; chronic obstructive pulmonary disease

Department/Division: Medicine - Pulmonary & Critical Care Medicine

Faculty Name: Dr. L. Yarmus

Research Topic(s): Interventional pulmonology

Department/Division: Medicine - Pulmonary & Critical Care Medicine

Faculty Name: Dr. R.C. Yung

Research Topic(s): Diagnosis of and therapy for early and advanced cancer; aerosolized cytokines

Department/Division: Medicine - Rheumatology

Faculty Name: Dr. F Andrade

Research Topic(s): Mechanisms of autoimmunity

Department/Division: Medicine - Rheumatology

Faculty Name: Dr. A. Baer

Research Topic(s): Evaluation and management of Sjogren's Syndrome, metabolic myopathies, and gout

Department/Division: Medicine - Rheumatology

Faculty Name: Dr. C. Bingham

Research Topic(s): Clinical therapeutics of rheumatoid arthritis and osteoarthritis; oral health in rheumatic diseases; RA & OA clinical trial design

Department/Division: Medicine - Rheumatology

Faculty Name: Dr. J. Birnbaum

Research Topic(s): Neurological manifestations of systemic rheumatic disease

Department/Division: Medicine - Rheumatology

Faculty Name: Dr. L. Casciola-Rosen

Research Topic(s): Mechanisms of autoimmunity, especially myositis and scleroderma

Department/Division: Medicine - Rheumatology

Faculty Name: Dr. L. Christopher-Stine
Research Topic(s): Epidemiology and therapy of inflammatory myositis

Department/Division: Medicine - Rheumatology
Faculty Name: Dr. E. Darrah
Research Topic(s): Mechanisms of autoimmunity

Department/Division: Medicine - Rheumatology
Faculty Name: Dr. A. Gelber
Research Topic(s): Epidemiology of arthritis and rheumatic disorders

Department/Division: Medicine - Rheumatology
Faculty Name: Dr. T. Grader-Beck
Research Topic(s): Translational research in systemic autoimmunity

Department/Division: Medicine - Rheumatology
Faculty Name: Dr. U. Haque
Research Topic(s): Evaluation and management of inflammatory arthritis

Department/Division: Medicine - Rheumatology
Faculty Name: Dr. L. Hummers
Research Topic(s): Epidemiology and treatment of scleroderma

Department/Division: Medicine - Rheumatology
Faculty Name: Dr. R. Manno
Research Topic(s): Epidemiology of aging and arthritis

Department/Division: Medicine - Rheumatology
Faculty Name: Dr. Z. McMahan
Research Topic(s): Evaluation and management of arthritis and fibromyalgia

Department/Division: Medicine - Rheumatology
Faculty Name: Dr. A. Rosen
Research Topic(s): Mechanisms of rheumatic diseases

Department/Division: Medicine - Rheumatology
Faculty Name: Dr. P. Seo
Research Topic(s): Disease activity and novel therapeutics of systemic vasculitis

Department/Division: Medicine - Rheumatology
Faculty Name: Dr. A. Shah
Research Topic(s): Epidemiology and management of scleroderma

Department/Division: Medicine - Rheumatology
Faculty Name: Dr. M. Soloski
Research Topic(s): T-cell immunity in infection

Department/Division: Medicine - Rheumatology
Faculty Name: Dr. S. Sule
Research Topic(s): Evaluation and management of pediatric rheumatology

Department/Division: Medicine - Rheumatology
Faculty Name: Dr. F. Wigley
Research Topic(s): Raynaud's phenomenon, scleroderma, and related disorders

Department/Division: Molecular Biology and Genetics
Faculty Name: Dr. Luisa Cochella

Research Topic(s): Transcriptional and post-transcriptional gene regulation in development

Department/Division: Molecular Biology and Genetics

Faculty Name: Dr. Jeff Coller

Research Topic(s): Mechanism of mRNA regulation through stability and translation

Department/Division: Molecular Biology and Genetics

Faculty Name: Dr. Brendan Cormack

Research Topic(s): Microbial pathogenesis; chromatin silencing

Department/Division: Molecular Biology and Genetics

Faculty Name: Dr. Rachel Green

Research Topic(s): Molecular mechanisms of translation; mRNA surveillance in bacteria and eukaryotes

Department/Division: Molecular Biology and Genetics

Faculty Name: Dr. Josh Modell

Research Topic(s): The Modell lab studies the basic mechanisms by which CRISPR-Cas9 systems protect their bacterial hosts from viruses and other foreign genetic elements.

Department/Division: Molecular Biology and Genetics

Faculty Name: Dr. Jeremy Nathans

Research Topic(s): Molecular biology of vision; developmental neurobiology

Department/Division: Molecular Biology and Genetics

Faculty Name: Dr. Sergi Regot

Research Topic(s): Single cell signaling dynamics; live cell biosensors

Department/Division: Molecular Biology and Genetics

Faculty Name: Dr. Geraldine Seydoux

Research Topic(s): Establishment of embryonic polarity and germ cell fate

Department/Division: Neurological Surgery

Faculty Name: Dr. Stan Anderson

Research Topic(s): Computational modeling and microelectrode recordings for studying seizure dynamics and new techniques in neuromodulation

Department/Division: Neurological Surgery

Faculty Name: Dr. Alan Belzberg

Research Topic(s): Mechanisms of neuropathic pain; peripheral nerve outcome studies; animal model of neuroma

Department/Division: Neurological Surgery

Faculty Name: Dr. Chetan Bettegowda

Research Topic(s): Microbiology of brain tumors

Department/Division: Neurological Surgery

Faculty Name: Dr. Henry Brem

Research Topic(s): Brain tumor angiogenesis and drug delivery systems: novel therapies for brain tumors and immunological approaches to brain tumors; microchip delivery systems to the brain

Department/Division: Neurological Surgery

Faculty Name: Dr. Ali Bydon

Research Topic(s): Spinal biomechanics

Department/Division: Neurological Surgery

Faculty Name: Dr. Michael Caterina

Research Topic(s): Molecular and physiological mechanisms of pain in health and disease

Department/Division: Neurological Surgery
Faculty Name: Dr. Alan Cohen
Research Topic(s): Minimally Invasive Neurosurgery Lab

Department/Division: Neurological Surgery
Faculty Name: Dr. Gary Gallia
Research Topic(s): Molecular biology of brain tumors

Department/Division: Neurological Surgery
Faculty Name: Dr. Judy Huang
Research Topic(s): Cerebrovascular diseases; intracerebral hemorrhage

Department/Division: Neurological Surgery
Faculty Name: Dr. Eric Jackson
Research Topic(s): Pediatric neurosurgery; treatment of infant brain tumors

Department/Division: Neurological Surgery
Faculty Name: Dr. Gregory Riggins
Research Topic(s): Brain cancer genomics; molecular biology and drug development

Department/Division: Neurological Surgery
Faculty Name: Dr. Matthias Ringkamp
Research Topic(s): Pain research

Department/Division: Neurological Surgery
Faculty Name: Dr. Dody Robinson
Research Topic(s): Perinatal brain injury

Department/Division: Neurological Surgery
Faculty Name: Dr. Rafael Tamargo
Research Topic(s): Post-hemorrhagic vasospasm; immune responses in the brain, stroke; history of neurosurgery

Department/Division: Neurological Surgery
Faculty Name: Dr. Nicholas Theodore
Research Topic(s): Spinal cord pathophysiology; genetics of spinal disorders; personalized medicine in spinal surgery; robotics and advanced technologies in spinal surgery.

Department/Division: Neurological Surgery
Faculty Name: Ms. Betty Tyler
Research Topic(s): Brain tumor laboratory research

Department/Division: Neurological Surgery
Faculty Name: Dr. Jon Weingart
Research Topic(s): Brain tumor research: clinical and laboratory

Department/Division: Neurological Surgery
Faculty Name: Dr. Timothy Witham
Research Topic(s): Spinal disorders; outcomes research

Department/Division: Neurology
Faculty Name: Dr. Marilyn Albert
Research Topic(s): Alzheimer's disease

Department/Division: Neurology
Faculty Name: Dr. Peter Calabresi

Research Topic(s): Neuroimmunology and neuroimaging

Department/Division: Neurology
Faculty Name: Dr. David Cornblath

Research Topic(s): Neurology peripheral nerve disease and electromyography

Department/Division: Neurology
Faculty Name: Dr. Ted Dawson

Research Topic(s): Molecular mechanisms of neurodegenerative disease; neuronal cell death and survival

Department/Division: Neurology
Faculty Name: Dr. Valina Dawson

Research Topic(s): Molecular mechanisms of neurodegenerative disease

Department/Division: Neurology
Faculty Name: Dr. Daniel Drachman

Research Topic(s): Neuromuscular diseases; neuroimmunology; gene transfer strategies for therapy of Myasthenia and ALS

Department/Division: Neurology
Faculty Name: Dr. Christopher Earley

Research Topic(s): Sleep related disorders; sleep-wake dysfunctions; restless leg syndrome; circadian rhythm disorders

Department/Division: Neurology
Faculty Name: Dr. Jeffrey Ellenbogen

Research Topic(s): Sleep physiology and brain sciences; sound perception during sleep

Department/Division: Neurology
Faculty Name: Dr. Ryan Felling

Research Topic(s): Neurogenesis after perinatal brain injury

Department/Division: Neurology
Faculty Name: Dr. Romergryko Geocadin

Research Topic(s): Brain resuscitation; acute disorders of consciousness (coma, vegetative states); targeted temperature management of therapeutic hypothermia

Department/Division: Neurology
Faculty Name: Dr. Gary Goldstein

Research Topic(s): Cerebral endothelial cells

Department/Division: Neurology
Faculty Name: Dr. Barry Gordon
Research Topic(s): Neuropsychology

Department/Division: Neurology
Faculty Name: Dr. Daniel Hanley
Research Topic(s): Brain injury outcomes

Department/Division: Neurology
Faculty Name: Dr. Argye Hillis

Research Topic(s): Neural basis of cognitive impairment and recovery after stroke

Department/Division: Neurology
Faculty Name: Dr. Ahmet Hoke

Research Topic(s): Peripheral neuropathies; nerve regeneration and drug development for

neuroprotection

Department/Division: Neurology
Faculty Name: Dr. Michael Johnston
Research Topic(s): Excitatory amines in cerebral anoxia

Department/Division: Neurology
Faculty Name: Dr. Peter Kaplan
Research Topic(s): Epilepsy and sleep disorders

Department/Division: Neurology
Faculty Name: Dr. Amir Kheramand
Research Topic(s): Neurophysiology of spatial orientation and perception of upright

Department/Division: Neurology
Faculty Name: Dr. Eric Kossoff
Research Topic(s): Ketogenic diet; hemispherectomy; infantile spasms; migraines; intractable epilepsy; neurocysticercosis

Department/Division: Neurology
Faculty Name: Dr. John J. Laterra
Research Topic(s): Studies of brain tumors; neuro-oncology

Department/Division: Neurology
Faculty Name: Dr. Ronald Lesser
Research Topic(s): Epilepsy and electroencephalography

Department/Division: Neurology
Faculty Name: Dr. Michael Levy
Research Topic(s): Animal modeling of autoimmune neurological diseases

Department/Division: Neurology
Faculty Name: Dr. Zoltan Mari
Research Topic(s): Parkinson's disease and movement disorders

Department/Division: Neurology
Faculty Name: Dr. Elisabeth Marsh
Research Topic(s): Outcomes in stroke recovery

Department/Division: Neurology
Faculty Name: Dr. Justin McArthur
Research Topic(s): Therapies for HIV-associated dementia and sensory neuropathies; cutaneous innervations in diverse neuropathic states; multiple sclerosis; neurological infections

Department/Division: Neurology
Faculty Name: Dr. Abhay Moghekar
Research Topic(s): Alzheimer's disease; cerebrospinal fluid disorders

Department/Division: Neurology
Faculty Name: Dr. Brett Morrison
Research Topic(s): The role of myelinating cells and lactate in peripheral nerve regeneration and ALS

Department/Division: Neurology
Faculty Name: Dr. David Newman-Toker
Research Topic(s): Diagnostic errors; diagnostic cost-effectiveness; diagnostic decision support; Eye movement-based stroke diagnosis in dizziness/vertigo

Department/Division: Neurology
Faculty Name: Dr. Alexander Pantelyat
Research Topic(s): Atypical parkinsonian disorders; music and rhythm-based interventions for neurological disorders

Department/Division: Neurology
Faculty Name: Dr. Liana Rosenthal
Research Topic(s): Clinical research in movement disorders

Department/Division: Neurology
Faculty Name: Dr. Nicoline Schiess
Research Topic(s): Multiple Sclerosis

Department/Division: Neurology
Faculty Name: Dr. Anja Soldan
Research Topic(s): Cognitive aging, Alzheimer's disease; cognitive reserve

Department/Division: Neurology
Faculty Name: Dr. Hongjun Song
Research Topic(s): Regulation and application of adult neural stem cells

Department/Division: Neurology
Faculty Name: Dr. Charlotte Sumner
Research Topic(s): Genetic and cellular mechanisms of inherited motor neuron and peripheral nerve disease

Department/Division: Neurology
Faculty Name: Dr. Mark Wu
Research Topic(s): Genetic analysis of sleep disorders

Department/Division: Oncology
Faculty Name: Dr. Syed Abbas Ali
Research Topic(s): Multiple myeloma

Department/Division: Oncology
Faculty Name: Dr. Rich Ambinder
Research Topic(s): Molecular virology; lymphoma

Department/Division: Oncology
Faculty Name: Dr. Mary Armanios
Research Topic(s): Biology of aging; telomere syndromes; pulmonary fibrosis; solid tumors

Department/Division: Oncology
Faculty Name: Dr. Deb Armstrong
Research Topic(s): Gynecology and breast cancer

Department/Division: Oncology
Faculty Name: Dr. Nilo Azad
Research Topic(s): Phase I studies and drug development; GI cancers (liver and colon)

Department/Division: Oncology
Faculty Name: Dr. Stephen Baylin
Research Topic(s): Epigenetic abnormalities in cancer

Department/Division: Oncology
Faculty Name: Dr. Julie Brahmer
Research Topic(s): Lung cancer; novel therapeutics; mesothelioma; lung cancer prevention

Department/Division: Oncology
Faculty Name: Dr. William Brennen
Research Topic(s): Prostate cancer, tumor microenvironment, mesenchymal stem cells, novel cellbased, prodrug and immunotherapies; drug development ,prodrugs,epigenetics

Department/Division: Oncology
Faculty Name: Dr. Ilene Browner
Research Topic(s): Geriatric and general oncology

Department/Division: Oncology
Faculty Name: Dr. Robert Casero
Research Topic(s): Amine oxidases as antineoplastic targets; chromatin remodeling; inflammation/infection induced cancer; molecular pharmacology

Department/Division: Oncology
Faculty Name: Dr. Allen Chen
Research Topic(s): Bone marrow transplantation; immunotherapy

Department/Division: Oncology
Faculty Name: Dr. Young Choi
Research Topic(s): Molecular mechanisms of mitochondrial quality control by human oncogenic virus

Department/Division: Oncology
Faculty Name: Dr. Kenneth Cooke
Research Topic(s): Immune mechanisms of graft vs. host disease; pulmonary dysfunction after blood stem cell transplantation

Department/Division: Oncology
Faculty Name: Dr. Stacy Cooper
Research Topic(s): clinical research in leukemia and lymphoma, medical education research

Department/Division: Oncology
Faculty Name: Dr. Leslie Cope
Research Topic(s): Methods for the analysis of gene expression data

Department/Division: Oncology
Faculty Name: Dr. William Dalton
Research Topic(s): Functional genetics of myeloid malignancies

Department/Division: Oncology
Faculty Name: Dr. Ana De Jesus-Acosta
Research Topic(s): Drug development

Department/Division: Oncology
Faculty Name: Dr. Angelo De Marzo
Research Topic(s): Molecular pathogenesis of prostate cancer

Department/Division: Oncology
Faculty Name: Dr. Samuel Denmeade
Research Topic(s): Novel therapies for prostate cancer; urologic oncology

Department/Division: Oncology
Faculty Name: Dr. Prashant Desai
Research Topic(s): Molecular genetics of herpes simplex virus assembly and morphogenesis

Department/Division: Oncology

Faculty Name: Dr. Patrick Forde
Research Topic(s): Lung cancer; immunotherapy

Department/Division: Oncology
Faculty Name: Dr. Alan Friedman
Research Topic(s): Hematopoiesis; leukemogenesis; inflammation and cancer

Department/Division: Oncology
Faculty Name: Dr. Ephraim Fuchs
Research Topic(s): Tumor immunology; t-cell activation and tolerance; immunotherapy

Department/Division: Oncology
Faculty Name: Dr. Gabriel Ghiur
Research Topic(s): Cancer genomics and molecular biology approaches to understand the mechanism of human leukemia

Department/Division: Oncology
Faculty Name: Dr. Lukasz Gondek
Research Topic(s): Clonal hematopoiesis and myeloid malignancies

Department/Division: Oncology
Faculty Name: Dr. Christine Hann
Research Topic(s): Small cell and non-small cell lung cancer; New drug development for lung cancer

Department/Division: Oncology
Faculty Name: Dr. Mathias Holdoff
Research Topic(s): Neuro-Oncology

Department/Division: Oncology
Faculty Name: Dr. Franck Housseau
Research Topic(s): Dendritic cell and innate immunity

Department/Division: Oncology
Faculty Name: Dr. Elizabeth Jaffe
Research Topic(s): Developing vaccine approaches that bypass mechanisms of immune tolerance in mice and patients

Department/Division: Oncology
Faculty Name: Dr. Tania Jain
Research Topic(s): CAR T cells and Myeloproliferative Neoplasms

Department/Division: Oncology
Faculty Name: Dr. Yoon Young Jang
Research Topic(s): Stem cells and microenvironment; pluripotent stem cells; hepatic differentiation; liver regeneration

Department/Division: Oncology
Faculty Name: Dr. Rick Jones
Research Topic(s): Bone marrow transplantation; hematopoiesis

Department/Division: Oncology
Faculty Name: Dr. Sushant Kachhap
Research Topic(s): DNA repair; metastasis; prostate cancer

Department/Division: Oncology
Faculty Name: Dr. Theodoros Karantanos
Research Topic(s): Biology of chronic myeloid neoplasms

Department/Division: Oncology
Faculty Name: Dr. Scott Kern
Research Topic(s): Genetics of pancreatic cancer

Department/Division: Oncology
Faculty Name: Dr. Kenneth Kinzler
Research Topic(s): Molecular genetics of human cancer

Department/Division: Oncology
Faculty Name: Dr. Alison Klein
Research Topic(s): Genetic epidemiology; pancreatic cancer; cancer epidemiology; statistical genetics

Department/Division: Oncology
Faculty Name: Dr. Daniel Laheru
Research Topic(s): GI, drug development

Department/Division: Oncology
Faculty Name: Dr. Dung Le
Research Topic(s): GI cancers; immunotherapy

Department/Division: Oncology
Faculty Name: Dr. Mark Levis
Research Topic(s): Molecular biology of leukemia; molecularly targeted cancer therapy

Department/Division: Oncology
Faculty Name: Dr. Evan Lipson
Research Topic(s): Melanoma

Department/Division: Oncology
Faculty Name: Dr. Leo Luznik
Research Topic(s): Adoptive immunotherapy of cancer; allogenic bone marrow transplantation

Department/Division: Oncology
Faculty Name: Dr. Christian Meyer
Research Topic(s): Adult sarcoma

Department/Division: Oncology
Faculty Name: Dr. William Nelson
Research Topic(s): Molecular mechanisms of drugs for urological cancer prevention and treatment

Department/Division: Oncology
Faculty Name: Dr. John Nicholas
Research Topic(s): Signal transducing cytokines and receptors of humanherpesvirus-8

Department/Division: Oncology
Faculty Name: Dr. Channing Paller
Research Topic(s): Novel and natural therapeutics; combination therapies; urologic cancer

Department/Division: Oncology
Faculty Name: Dr. Nickolas Papadopoulos
Research Topic(s): Molecular genetics of human neoplasia

Department/Division: Oncology
Faculty Name: Dr. Drew Pardoll
Research Topic(s): Dendritic cell biology; T-cell regulation

Department/Division: Oncology
Faculty Name: Dr. Christine Pratilas
Research Topic(s): Molecularly targeted therapy for pediatric solid tumors

Department/Division: Oncology
Faculty Name: Dr. Eric Raabe
Research Topic(s): Neural stem cell biology; pediatric brain tumors; medulloblastoma; glioblastoma; diffuse intrinsic pontine glioma; targeting stem cell factors in brain tumors

Department/Division: Oncology
Faculty Name: Dr. Kathy Ruble
Research Topic(s): Cancer survivorship

Department/Division: Oncology
Faculty Name: Dr. Michelle Rudek
Research Topic(s): Drug development; clinical pharmacology

Department/Division: Oncology
Faculty Name: Dr. William Sharfman
Research Topic(s): Malignant melanoma

Department/Division: Oncology
Faculty Name: Dr. Dipali Sharma
Research Topic(s): Breast cancer prevention; obesity-cancer axis; bioactive compounds; endocrine resistance

Department/Division: Oncology
Faculty Name: Dr. Eugene Shenderov
Research Topic(s): GU Cancers; Immunotherapy; Spatial Biology; Computational AI

Department/Division: Oncology
Faculty Name: Dr. Donald Small
Research Topic(s): Molecular biology and molecular targeting of leukemia; leukemia stem cells

Department/Division: Oncology
Faculty Name: Dr. B. Douglas Smith
Research Topic(s): Myeloid malignancies (AML, CML, MDS); cancer stem cell biology

Department/Division: Oncology
Faculty Name: Dr. Vered Stearns
Research Topic(s): Breast cancer

Department/Division: Oncology
Faculty Name: Dr. Sara Sukumar
Research Topic(s): Molecular genetics of breast cancer

Department/Division: Oncology
Faculty Name: Dr. Lode Swinnen
Research Topic(s): Lymphoma; viral oncology; neoplasia and immunodeficiency; Epstein Barr virus

Department/Division: Oncology
Faculty Name: Dr. Heather Symons
Research Topic(s): immunobiology of bone marrow transplantation; alternative donor bone marrow transplantation for malignant and nonmalignant diseases

Department/Division: Oncology
Faculty Name: Dr. Victor Velculescu

Research Topic(s): Genomic analyses of human cancer

Department/Division: Oncology
Faculty Name: Dr. Kala Visvanathan
Research Topic(s): Genetic oncology; breast cancer

Department/Division: Oncology
Faculty Name: Dr. Bert Vogelstein
Research Topic(s): Exploring and exploiting the genetic alterations in human cancers

Department/Division: Oncology
Faculty Name: Dr. Nina Wagner-Johnston
Research Topic(s): Lymphoma

Department/Division: Oncology
Faculty Name: Dr. Antonio Wolff
Research Topic(s): Breast cancer; novel therapies; biomarkers; survivorship; guidelines

Department/Division: Oncology
Faculty Name: Dr. Srinivasan Yegnasubramanian
Research Topic(s): Molecular genetics and epigenetics of cancer; DNA methylation

Department/Division: Oncology
Faculty Name: Dr. Cynthia Zahnow
Research Topic(s): Mouse models and epigenetic therapeutic approaches for epithelial cancers

Department/Division: Oncology
Faculty Name: Dr. Elias Zambidis
Research Topic(s): Developmental biology of human hematopoietic and vascular stem cells; embryonic stem cell biology; regenerative medicine; stem cell transplantation; cancer stem cells

Department/Division: Oncology
Faculty Name: Dr. Lei Zheng
Research Topic(s): GI cancers (pancreatic, colon, and liver); vaccines and immunotherapy; molecularly targeted therapies

Department/Division: Oncology
Faculty Name: Dr. Shibin Zhou
Research Topic(s): Experimental cancer therapeutics

Department/Division: Oncology
Faculty Name: Dr. Challice Bonifant
Research Topic(s): Immunobiology of myeloid malignancies, targeted immunotherapy with cell engineering.

Department/Division: Oncology
Faculty Name: Dr. Clayton Yates
Research Topic(s): Molecular pathology; Genetics/Epigenetics of Cancer

Department/Division: Ophthalmology
Faculty Name: Dr. Esen Akpek
Research Topic(s): Cornea/Cataract

Department/Division: Ophthalmology
Faculty Name: Dr. Meghan Berkenstock
Research Topic(s): Uveitis; Scleritis, Autoimmune Diseases of the Eye

Department/Division: Ophthalmology
Faculty Name: Dr. Henry Brem
Research Topic(s): Angiogenesis Research and Controlled Drug Delivery

Department/Division: Ophthalmology
Faculty Name: Dr. Cindy Cai
Research Topic(s): Retina; Health equity / social determinants of health; Big data / informatics

Department/Division: Ophthalmology
Faculty Name: Dr. Peter Campochiaro
Research Topic(s): Surgical Retina

Department/Division: Ophthalmology
Faculty Name: Dr. Andrew Carey
Research Topic(s): Clinical neuro-ophthalmology

Department/Division: Ophthalmology
Faculty Name: Dr. Megan Collins
Research Topic(s): Pediatric ophthalmology and adult strabismus; Pediatric ophthalmology and Public Health and/or Health care policy; Medical ethics and professionalism; Health care equity / social determinants of health

Department/Division: Ophthalmology
Faculty Name: Dr. Allen Egharri
Research Topic(s): Cornea/Cataract

Department/Division: Ophthalmology
Faculty Name: Dr. James Handa
Research Topic(s): Ocular Tumors; Methods of Diagnosis and Treatment; Surgical Retina

Department/Division: Ophthalmology
Faculty Name: Dr. Amanda Henderson
Research Topic(s): Neuro-Ophthalmology

Department/Division: Ophthalmology
Faculty Name: Dr. Mona Kaleem
Research Topic(s): Clinical Research Elective in Ophthalmology - Bethesda campus

Department/Division: Ophthalmology
Faculty Name: Dr. Irene Kuo
Research Topic(s): Cornea/Cataract

Department/Division: Ophthalmology
Faculty Name: Dr. Emily Li
Research Topic(s): Oculoplastics

Department/Division: Ophthalmology
Faculty Name: Dr. Nicholas Mahoney
Research Topic(s): Oculoplastics

Department/Division: Ophthalmology
Faculty Name: Dr. Neil Miller
Research Topic(s): Clinical neuro-ophthalmology

Department/Division: Ophthalmology
Faculty Name: Dr. Fatemeh Rajaii
Research Topic(s): Oculoplastics

Department/Division: Ophthalmology
Faculty Name: Dr. Pradeep Ramulu
Research Topic(s): Ocular Epidemiology

Department/Division: Ophthalmology
Faculty Name: Dr. Oliver Schein
Research Topic(s): Cornea/Cataract; Ocular Epidemiology

Department/Division: Ophthalmology
Faculty Name: Dr. Shameema Sikder
Research Topic(s): Surgical Education; Cornea/Cataract; Surgical Education

Department/Division: Ophthalmology
Faculty Name: Dr. Uri Soiberman
Research Topic(s): Cornea/Cataract

Department/Division: Ophthalmology
Faculty Name: Dr. Sharon Solomon
Research Topic(s): Medical Retina

Department/Division: Ophthalmology
Faculty Name: Dr. Jennifer Thorne
Research Topic(s): Uveitis; Scleritis, Autoimmune Diseases of the Eye

Department/Division: Ophthalmology
Faculty Name: Dr. Robert Weinberg
Research Topic(s): Cornea/Cataract

Department/Division: Ophthalmology
Faculty Name: Dr. Don Zack
Research Topic(s): Retinal Molecular Biology

Department/Division: Ophthalmology
Faculty Name: Dr. David Zee
Research Topic(s): Pathophysiology of Eye Movement Disorders and Nystagmus

Department/Division: Orthopaedic Surgery
Faculty Name: Dr. Michael Ain
Research Topic(s): Skeletal dysplasia

Department/Division: Orthopaedic Surgery
Faculty Name: Dr. Ronald Byank
Research Topic(s): General Orthopaedic Surgery

Department/Division: Orthopaedic Surgery
Faculty Name: Dr. David Cohen
Research Topic(s): Clinical outcomes in spinal surgery; spinal deformities and disorders in adults

Department/Division: Orthopaedic Surgery
Faculty Name: Dr. Raj Deu
Research Topic(s): Sports Medicine

Department/Division: Orthopaedic Surgery
Faculty Name: Dr. James Ficke
Research Topic(s): Foot and ankle

Department/Division: Orthopaedic Surgery

Faculty Name: Dr. Erik Hasenboehler

Research Topic(s): Trauma

Department/Division: Orthopaedic Surgery

Faculty Name: Dr. Casey Humbyrd

Research Topic(s): Foot and Ankle

Department/Division: Orthopaedic Surgery

Faculty Name: Dr. Jack Ingari

Research Topic(s): Hand Surgery

Department/Division: Orthopaedic Surgery

Faculty Name: Dr. Khaled Kebaish

Research Topic(s): Spine deformities

Department/Division: Orthopaedic Surgery

Faculty Name: Dr. Harpal Khanuja

Research Topic(s): Total Joints

Department/Division: Orthopaedic Surgery

Faculty Name: Dr. Dawn Laporte

Research Topic(s): Hand Surgery

Department/Division: Orthopaedic Surgery

Faculty Name: Dr. Jay Lee

Research Topic(s): Pediatrics

Department/Division: Orthopaedic Surgery

Faculty Name: Dr. Adam Levin

Research Topic(s): Oncology; primary bone tumors

Department/Division: Orthopaedic Surgery

Faculty Name: Dr. Edward McFarland

Research Topic(s): Sports medicine; shoulder and elbow conditions

Department/Division: Orthopaedic Surgery

Faculty Name: Dr. Carol Morris

Research Topic(s): Oncology, primary bone tumors

Department/Division: Orthopaedic Surgery

Faculty Name: Dr. Brian Neuman

Research Topic(s): Spine

Department/Division: Orthopaedic Surgery

Faculty Name: Dr. Julius Oni

Research Topic(s): Total Joints

Department/Division: Orthopaedic Surgery

Faculty Name: Dr. Greg Osgood

Research Topic(s): Trauma

Department/Division: Orthopaedic Surgery

Faculty Name: Dr. Lee Riley III

Research Topic(s): Clinical outcomes in spinal surgery; spinal deformities and disorders in adults

Department/Division: Orthopaedic Surgery

Faculty Name: Dr. Babar Shafiq
Research Topic(s): Trauma

Department/Division: Orthopaedic Surgery
Faculty Name: Dr. Paul Sponseller
Research Topic(s): Spinal deformities; pediatric trauma; myelodysplasia; skeletal aspects of bladder exstrophy

Department/Division: Orthopaedic Surgery
Faculty Name: Dr. Robert Sterling
Research Topic(s): Total Joints

Department/Division: Orthopaedic Surgery
Faculty Name: Dr. Miho Tanaka
Research Topic(s): Sports medicine

Department/Division: Orthopaedic Surgery
Faculty Name: Dr. John Tis
Research Topic(s): Pediatrics

Department/Division: Orthopaedic Surgery
Faculty Name: Dr. Ranjit Varghese
Research Topic(s): Pediatrics

Department/Division: Otolaryngology - Head & Neck Surgery
Faculty Name: Dr. Yuri Agrawal
Research Topic(s): Vestibular function and aging; implications for gait and falls; vestibular compensation; vestibular rehabilitation

Department/Division: Otolaryngology - Head & Neck Surgery
Faculty Name: Dr. Lee Akst
Research Topic(s): Voice and swallowing disorders; dysphonia evaluation in various populations

Department/Division: Otolaryngology - Head & Neck Surgery
Faculty Name: Dr. Simon Best
Research Topic(s): Immunobiology of Recurrent Respiratory Papillomatosis (RRP); Development of novel therapeutic treatments for RRP

Department/Division: Otolaryngology - Head & Neck Surgery
Faculty Name: Dr. Nasir Bhatti
Research Topic(s): Difficult airways; complementary and alternative medicine

Department/Division: Otolaryngology - Head & Neck Surgery
Faculty Name: Dr. Kofi Boahene
Research Topic(s): Outcomes in facial paralysis restoration; Tissue engineering and wound healing; Minimally invasive approaches to brain and skull base lesions; Outcomes in ethnic facial cosmetic surgery; Facial paralysis; Cleft lip repair; Tissue engineering; Wound healing; Keloids

Department/Division: Otolaryngology - Head & Neck Surgery
Faculty Name: Dr. Emily Boss
Research Topic(s): Patient and family experience of care, provider-family communication, healthcare disparities, and surgical healthcare quality and utilization

Department/Division: Otolaryngology - Head & Neck Surgery
Faculty Name: Dr. Mariana Brait
Research Topic(s): Cancer Biomarkers; Early Detection of Cancer; Circulating DNA; Head and Neck Cancer; Translational Cancer Research; Epigenetics; Genetics; Salivary Gland Tumors

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Patrick Byrne

Research Topic(s): Facial nerve rehabilitation; telemedicine and international cleft palate care; outcomes in reconstructive surgery

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Wade Chen

Research Topic(s): Atraumatic methodologies for cochlear implant insertion; Hearing protection/regeneration; Middle ear mechanics; Temporal bone histopathology; Musical perception in cochlear implant users

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Chenkai Dai

Research Topic(s): Optimize electrical stimulation in vestibular prosthesis; adaptation and interaction of vestibular nerve system to electrical stimulation; develop new rehabilitation paradigm to improve vestibular compensation for patients with vestibular disorder; set up ECAP/VOR measurements for electrode implantation

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. David Eisele

Research Topic(s): Surgery for malignant and benign tumors of the head and neck

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Carole Fakhry

Research Topic(s): HPV-associated head and neck squamous cell cancer

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Gene Fridman

Research Topic(s): Applied research toward developing novel methods and devices for neural interfacing and toward developing electronic prostheses for the treatment of central and peripheral neural disorders

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Daria Gaykalova

Research Topic(s): The whole-genome analysis of chromatin structure re-organization in primary head and neck cancer tissues with and without HPV infection and viral genome integration. The role of chromatin in the regulation of gene expression. Adaptation of epigenetic ther

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Christine Gourin

Research Topic(s): Quality of life; Quality of care, safety, and decision making in head and neck cancer; Functional outcomes; Survival following treatment for head and neck cancer

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Alexander Hillel

Research Topic(s): Laryngeal tissue engineering; management of the difficult airway; pathogenesis of laryngotracheal fibrosis

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Eugene Huang

Research Topic(s): Adhesion Dentistry; Biological considerations of the periodontium in regard to implant and restorative dentistry; Sjogren's Syndrome (currently involved with Sjogren's International Collaborative Clinical Alliance)

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Lisa Ishii

Research Topic(s): Evaluation of aesthetic outcomes in facial plastic and reconstructive surgery

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Masaru Ishii

Research Topic(s): Objective assessment of surgical data sciences

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Matthew Kashima

Research Topic(s): Sleep apnea outcomes research; resident education

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Jean Kim

Research Topic(s): Clinical, translational, and basic science research in chronic rhinosinusitis and nasal polyposis; immune dysfunction and upper airway epithelial cell biology; clinical, translational, and basic science research in autoimmune sinusitis and salivary gland disease.

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Wayne Koch

Research Topic(s): Translational research using molecular biology to study the head and neck neoplasms; markers for early detection, prognostication

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Andrew Lane

Research Topic(s): Chronic rhinosinusitis with and without nasal polyposis, olfactory loss and transnasal endoscopic surgery. Basic science research lab utilizes molecular biologic and immunologic techniques to study human tissue and mouse models, with a focus on epithelial

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Frank Lin

Research Topic(s): How hearing loss impacts the health and functioning of older adults and the role of different treatment modalities (hearing aids, cochlear implantation) in mitigating these effects; Examining the potential causal associations between hearing loss and dementia, cognition, functional decline, social isolation, and health economic costs

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Sandra Lin

Research Topic(s): Outcomes in pediatric and adult sinusitis; outcomes in the treatment of allergies

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Raksha Mirchandani

Research Topic(s): Endodontic and oral infections and their link to systemic diseases

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Wojciech Mydlarz

Research Topic(s): Surgical and non-surgical treatment outcomes in head and neck cancer patients; Molecular biology of head and neck cancer, Clinical applications of novel targeted cancer therapies, Robotic and laser surgery and their clinical applications, Minimally invasive surgical approaches for head and neck cancer

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Alexander Pazoki

Research Topic(s): Oral and dental medicine

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Murugappan Ramanathan

Research Topic(s): Molecular and immunologic (innate and adaptive) mechanisms underlying the pathogenesis of chronic rhinosinusitis with nasal polyps; Role of allergy and environmental pollutants

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Nicole Schmitt

Research Topic(s): Biology of head and neck tumors, mechanisms, and toxicity profiles of platinum-based chemotherapy drugs

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Michael Schubert

Research Topic(s): Research is focused on examining the oculomotor mechanisms responsible for both behavioral outcomes and physiologic changes associated with vestibular rehabilitation. Developing novel tools to change vestibular motor behavior.

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. David Sidransky

Research Topic(s): Molecular genetics of head and neck cancer; novel diagnostic approaches to detect tumors and better choose targeted therapies for cancer

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Margaret Skinner

Research Topic(s): Disorders of the pediatric airway and upper aerodigestive tract; Congenital anomalies of the larynx, trachea, and esophagus

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Matthew Stewart

Research Topic(s): Auditory Processing in Bone Anchored Hearing Aids; Healthcare quality implementation in microsystems

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Barry Trink

Research Topic(s): Molecular biology of head and neck cancer

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. Ralph Tufano

Research Topic(s): Clinical and translational research of thyroid and parathyroid disease process

Department/Division: Otolaryngology - Head & Neck Surgery

Faculty Name: Dr. David Tunkel

Research Topic(s): Pediatric airway problems; ear and airway disease in skeletal dysplasia; development and application of clinical practice guidelines in pediatric otolaryngology

Department/Division: Pathology

Faculty Name: Dr. Syed Z. Ali

Research Topic(s): Cytopathology; digital photoimaging; web-based teaching tools

Department/Division: Pathology

Faculty Name: Dr. Robert Anders

Research Topic(s): Tumor immunology, tumor immune microenvironment, liver, and gastrointestinal pathology

Department/Division: Pathology

Faculty Name: Dr. Lois Arend

Research Topic(s): Pathology of native and transplanted kidney

Department/Division: Pathology

Faculty Name: Dr. Pedram Argani

Research Topic(s): Breast cancer, gall bladder, and bile duct carcinomas; pediatric renal tumors

Department/Division: Pathology
Faculty Name: Dr. Serena Bagnasco
Research Topic(s): Pathology of native and transplanted kidney

Department/Division: Pathology
Faculty Name: Dr. Alexander Baras
Research Topic(s): Machine learning/artificial intelligence applied to biological sequences and biomedical imaging; urological and gynecological pathology

Department/Division: Pathology
Faculty Name: Dr. Evan Bloch
Research Topic(s): Transfusion transmitted infections; Babesiosis; global blood transfusion safety; international health

Department/Division: Pathology
Faculty Name: Dr. Michael Borowitz
Research Topic(s): Leukemia and lymphoma, especially pediatric leukemia; flow cytometry

Department/Division: Pathology
Faculty Name: Dr. Karen Carroll
Research Topic(s): Diagnostic test development and evaluation for bacteria with emphasis on healthcare associated infections.

Department/Division: Pathology
Faculty Name: Dr. Patrizio Caturegli
Research Topic(s): Autoimmune diseases; thyroiditis; hypophysitis; mouse models

Department/Division: Pathology
Faculty Name: Dr. Daniel Chan
Research Topic(s): Tumor markers; proteomics; immunoassay

Department/Division: Pathology
Faculty Name: Dr. Daniel Cihakova
Research Topic(s): Immunology, cardiac inflammation, myocarditis, dilated cardiomyopathy, myocardial infarction, T cells, Macrophages, Innate lymphoid cells, cytokines

Department/Division: Pathology
Faculty Name: Dr. Ashley Cimino-Mathews
Research Topic(s): Breast cancer, tumor immune microenvironment

Department/Division: Pathology
Faculty Name: Dr. William Clarke
Research Topic(s): Therapeutic drug monitoring; clinical toxicology; drug assay development, point-of-care testing

Department/Division: Pathology
Faculty Name: Dr. Angelo De Marzo
Research Topic(s): Molecular pathogenesis of prostate cancer

Department/Division: Pathology
Faculty Name: Dr. Charles Eberhart
Research Topic(s): Pathogenesis of brain and eye tumors

Department/Division: Pathology
Faculty Name: Dr. Jonathan Epstein
Research Topic(s): Genitourinary pathology

Department/Division: Pathology
Faculty Name: Dr. James Eshleman
Research Topic(s): Early detection of pancreatic cancer; genes causing familial pancreatic cancer; liquid biopsy for patients with solid tumors; targeting cancer based on its genotype; novel molecular tools for cancer

Department/Division: Pathology
Faculty Name: Dr. Susan Eshleman
Research Topic(s): HIV genetic diversity, transmission, and drug resistance; novel methods for HIV analysis

Department/Division: Pathology
Faculty Name: Dr. Edward Gabrielson
Research Topic(s): Molecular pathology of breast and lung cancer

Department/Division: Pathology
Faculty Name: Dr. Mary Glenn Fowler
Research Topic(s): Prevention of mother and child transmission of HIV; treatment of pediatric HIV infection; and prevention among high-risk adolescents and women in international settings

Department/Division: Pathology
Faculty Name: Dr. Christopher Gocke
Research Topic(s): Molecular diagnostics and hematopathology

Department/Division: Pathology
Faculty Name: Dr. Michael Goggins
Research Topic(s): Pancreatic cancer, particularly early detection; cancer genetics; cancer epigenetics

Department/Division: Pathology
Faculty Name: Dr. Mary Kate Grabowski
Research Topic(s): Human immunodeficiency virus, epidemiology, pathogen phylogenetics, international health

Department/Division: Pathology
Faculty Name: Dr. Marc Halushka
Research Topic(s): Cellular expression and cardiovascular disease

Department/Division: Pathology
Faculty Name: Dr. Abdu Hamad
Research Topic(s): Type I diabetes, underlying mechanisms and innovative therapeutic strategies, role of B cells and Natural killer T cells

Department/Division: Pathology
Faculty Name: Dr. Ralph H. Hruban
Research Topic(s): Cancer of the pancreas

Department/Division: Pathology
Faculty Name: Dr. Chien-Fu Hung
Research Topic(s): Cancer vaccine; immunotherapy; DNA vaccine

Department/Division: Pathology
Faculty Name: Dr. Peter Illei
Research Topic(s): Pulmonary pathology and cytopathology

Department/Division: Pathology
Faculty Name: Dr. Aaron James
Research Topic(s): Bone biology, bone repair, mesenchymal stem cells, bone tumors

Department/Division: Pathology
Faculty Name: Dr. Claire Knezevic
Research Topic(s): Critical care testing, TDM/toxicology, Mass Spectrometry

Department/Division: Pathology
Faculty Name: Dr. Vassilis Koliatsos
Research Topic(s): Traumatic brain injury, traumatic axonopathy; stem cell therapies for neural injury

Department/Division: Pathology
Faculty Name: Dr. Scott Krummey
Research Topic(s): Transplant immunology, high-dimensional flow cytometry for immune profiling of transplant patient populations, histocompatibility, HLA antibody testing

Department/Division: Pathology
Faculty Name: Dr. H. Benjamin Larman
Research Topic(s): High throughput molecular assay development, human immunology, autoimmunity

Department/Division: Pathology
Faculty Name: Dr. Tatianna Larman
Research Topic(s): Intestinal epithelial biology, intestinal stem cell niche homeostasis, early colorectal cancer pathogenesis, GI/liver/soft tissue pathology

Department/Division: Pathology
Faculty Name: Dr. Anne Le
Research Topic(s): Metabolism of disease and metabolomics technologies

Department/Division: Pathology
Faculty Name: Dr. Qing Kay Li
Research Topic(s): Biomarkers in lung cancer and prostate cancer

Department/Division: Pathology
Faculty Name: Dr. Tong Li
Research Topic(s): Molecular biology of neurobiological diseases

Department/Division: Pathology
Faculty Name: Dr. Ming-Tseh Lin
Research Topic(s): Molecular diagnosis of solid tumor

Department/Division: Pathology
Faculty Name: Dr. Tamara Lotan
Research Topic(s): Prognostic and predictive molecular biomarkers for prostate cancer; PTEN/Pi3k/mTOR signaling in development and tumorigenesis; genitourinary pathology

Department/Division: Pathology
Faculty Name: Dr. Zahra Maleki
Research Topic(s): Cytopathology; Lung Neoplasms, Salivary Gland and Head and Neck Cytopathology

Department/Division: Pathology
Faculty Name: Dr. Joseph L. Mankowski
Research Topic(s): Comparative pathology and viral pathogenesis; neuroimmunology

Department/Division: Pathology
Faculty Name: Dr. Lee J. Martin
Research Topic(s): Amyotrophic lateral sclerosis; Parkinson's disease; mitochondria; stroke; neonatal brain ischemia; cell death; apoptosis-necrosis continuum; motor neuron disease; transgenic mice

Department/Division: Pathology
Faculty Name: Dr. Mark Marzinke
Research Topic(s): Analytical pharmacology, laboratory automation, precision medicine and pharmacogenetics

Department/Division: Pathology
Faculty Name: Dr. Andres Matoso
Research Topic(s): Urologic pathology including rare tumors and bladder cancer

Department/Division: Pathology
Faculty Name: Dr. Alan Meeker
Research Topic(s): Molecular pathology and telomere biology of prostate and other cancers

Department/Division: Pathology
Faculty Name: Dr. Heba Mostafa
Research Topic(s): Diagnostic Molecular Virology, Viral Surveillance and Evolution

Department/Division: Pathology
Faculty Name: Dr. Jaclyn Murry
Research Topic(s): Prenatal and Postnatal Clinical Cytogenetics; Chromosome Microarray; delineation of genetic syndromes

Department/Division: Pathology
Faculty Name: Dr. David Nauen
Research Topic(s): Structure and function of human hippocampus

Department/Division: Pathology
Faculty Name: Dr. Kiyoko Oshima
Research Topic(s): Liver and biliary pathology, liver transplant pathology

Department/Division: Pathology
Faculty Name: Dr. Nicole Parrish
Research Topic(s): Antibiotic development; use of natural compounds as antimicrobials and the basis for synthetic scaffolds; diagnostic development for rapid detection of antimicrobial resistance; understanding antibiotic consumption and the relationship to development of antimicrobial resistance in both pathogens and commensal organisms

Department/Division: Pathology
Faculty Name: Dr. Nicolas Roberts
Research Topic(s): Pancreatic cancer, inherited cancer, in vitro and in vivo cancer models

Department/Division: Pathology
Faculty Name: Dr. Richard Roden
Research Topic(s): Cervical cancer; ovarian cancer; papillomavirus; vaccine development; virology

Department/Division: Pathology
Faculty Name: Dr. Brigitte Ronnett
Research Topic(s): Gynecologic pathology

Department/Division: Pathology
Faculty Name: Dr. Max Rosario
Research Topic(s): Corona Virus T cell vaccines and NK cell immunology

Department/Division: Pathology
Faculty Name: Dr. Scheherazade Sadegh-Nasseri
Research Topic(s): Molecular mechanisms of Antigen Processing in relation to autoimmune diseases, HIV, memory T cell longevity, and vaccine designs

Department/Division: Pathology
Faculty Name: Dr. Alena Savonenko

Research Topic(s): Cognitive deficits in animal models of Alzheimer's, Parkinson's, and schizophrenia; testing experimental treatments for these diseases; their mechanisms, safety, and side effects

Department/Division: Pathology
Faculty Name: Dr. Jonathan Schneck

Research Topic(s): Basic mechanisms controlling T-cell mediated immune responses; cellular engineering; adoptive immunotherapy; cellular microarray-based high-throughput analysis of immune responses

Department/Division: Pathology
Faculty Name: Dr. Karen Sfanos
Research Topic(s): Cancer biology; prostate cancer

Department/Division: Pathology
Faculty Name: Dr. IE Ming Shih
Research Topic(s): Molecular events that drive precursor lesion to invasive cancer; Molecular targets for new therapy by exploring cancer genomics; Integrated proteogenomic analysis of human cancer

Department/Division: Pathology
Faculty Name: Dr. Trish Simner
Research Topic(s): Clinical microbiology, antimicrobial resistance, and novel diagnostic tools for infectious diseases

Department/Division: Pathology
Faculty Name: Dr. Lori Sokoll
Research Topic(s): Clinical chemistry; tumor markers; immunoassays

Department/Division: Pathology
Faculty Name: Dr. Charles Steenbergen
Research Topic(s): Cardiac pathology; myocardial ischemia/reperfusion injury and cardio protection

Department/Division: Pathology
Faculty Name: Dr. Shuying Sun
Research Topic(s): Neurodegenerative diseases and RNA metabolism

Department/Division: Pathology
Faculty Name: Dr. Elizabeth Thompson
Research Topic(s): Pancreatic tumors, tumor immune microenvironment, immune response to different stages of neoplasia

Department/Division: Pathology
Faculty Name: Dr. Aaron Tobian
Research Topic(s): Transfusion medicine and HIV

Department/Division: Pathology
Faculty Name: Dr. Juan Troncoso
Research Topic(s): Neuropathology of normal aging, Alzheimer's, Parkinson's, and Huntington's disease with emphasis on morphological and biochemical studies of human postmortem tissues. My laboratory has access to >2500 autopsy brains, with fixed and frozen tissues, of neu

Department/Division: Pathology
Faculty Name: Dr. Chris Vadenbussche
Research Topic(s): Genitourinary pathology; ancillary testing in small biopsy specimens; cytomorphologic digital analysis

Department/Division: Pathology
Faculty Name: Dr. Russell Vang
Research Topic(s): Gynecologic pathology

Department/Division: Pathology
Faculty Name: Dr. Tian-Li Wang
Research Topic(s): DNA damage repair in cancer development; Chromatin remodeling in ovarian cancer;
Cancer stem cell study; Innovative cancer detection using body fluid

Department/Division: Pathology
Faculty Name: Dr. Philip Wong
Research Topic(s): Molecular mechanisms and mouse models of neurodegenerative and psychiatric
diseases; experimental therapeutics

Department/Division: Pathology
Faculty Name: Dr. Laura Wood
Research Topic(s): Cancer genomics; pancreatic and liver cancers; gastrointestinal and liver pathology

Department/Division: Pathology
Faculty Name: Dr. T.C. Wu
Research Topic(s): Cancer, immunotherapy for HPV associated malignancies and other gynecological
cancers; molecular pathology and DNA vaccines

Department/Division: Pathology
Faculty Name: Dr. Rena Xian
Research Topic(s): B-cell lymphoma genomics, next-generation sequencing, non-invasive diagnostics,
viral-associated lymphomas

Department/Division: Pathology
Faculty Name: Dr. Deyin Xing
Research Topic(s): Diagnosis and molecular pathogenesis of gynecologic neoplastic and non-neoplastic
lesions

Department/Division: Pathology
Faculty Name: Dr. Mark Zarella
Research Topic(s): Digital pathology, Human interpretable machine learning using histology images.

Department/Division: Pathology
Faculty Name: Dr. Hui Zhang
Research Topic(s): Developing and applying high-throughput mass spectrometric technologies and data
analysis pipeline for multi-omics characterization of proteins and protein phosphorylation/glycosylation

Department/Division: Pathology
Faculty Name: Dr. Sean Zhang
Research Topic(s): Medical mycology; molecular diagnosis of fungal infections

Department/Division: Pathology
Faculty Name: Dr. Zhen Zhang
Research Topic(s): Bioinformatics; biomarker discovery; computational methods for expression data
analysis; biomarkers for ovarian cancer

Department/Division: Pathology
Faculty Name: Dr. Ying Zou
Research Topic(s): Characterization of chromosomal structural abnormalities in leukemia and lymphoma
using cytogenomics methods; Fluorescence in situ hybridization

Department/Division: Physical Medicine and Rehabilitation
Faculty Name: Dr. P. Celnik
Research Topic(s): Neuroplasticity, transcranial magnetic stimulation

Department/Division: Physical Medicine and Rehabilitation
Faculty Name: Dr. M. Gonzalez-Fernandez
Research Topic(s): Stroke and dysphagia, prosthetics

Department/Division: Physical Medicine and Rehabilitation
Faculty Name: Dr. P. Raghavan
Research Topic(s): Motor recovery after stroke; Understanding and treating muscle stiffness;
Biomarkers for chronic myofascial pain

Department/Division: Physical Medicine and Rehabilitation
Faculty Name: Dr. A. Reico
Research Topic(s): Recovery and regeneration in spinal cord injury

Department/Division: Physical Medicine and Rehabilitation
Faculty Name: Dr. C. Sadowsky
Research Topic(s): Recovery and regeneration in spinal cord injury

Department/Division: Physical Medicine and Rehabilitation
Faculty Name: Dr. S. Wegener
Research Topic(s): Chronic pain related to injury, chronic disease, or disability; cognitive-behavioral and self-management interventions; positive psychological variables (denial, positive coping, hope and spirituality) in health outcomes

Department/Division: Physiology
Faculty Name: Dr. Liudmila Cebotaru
Research Topic(s): CF Gene Therapy

Department/Division: Physiology
Faculty Name: Dr. Steven Claypool
Research Topic(s): Mitochondrial phospholipid metabolism in health and disease.

Department/Division: Physiology
Faculty Name: Dr. Valina Dawson
Research Topic(s): Molecular mechanisms of neuronal death and survival; cell death and cell survival signaling pathways in models of stroke and Parkinson's disease

Department/Division: Physiology
Faculty Name: Dr. Dax Fu
Research Topic(s): Zinc transporters: biochemistry, biophysics, and cell biology.

Department/Division: Physiology
Faculty Name: Dr. William Guggino
Research Topic(s): Genetic diseases resulting in defective ion channels.

Department/Division: Physiology
Faculty Name: Dr. Anastasia Kralli
Research Topic(s): Regulatory pathways that control adaptive metabolic responses in adipose and skeletal muscle tissues.

Department/Division: Physiology
Faculty Name: Dr. Svetlana Lutsenko
Research Topic(s): Human copper homeostasis: biochemical mechanisms of transport and compartmentalization of metal ions, the role of copper in lipid metabolism and cell differentiation,

developing new approaches for treatment of human disorders of copper misbalance.

Department/Division: Physiology

Faculty Name: Dr. Jennifer Pluznick

Research Topic(s): Renal physiology; the role of sensory receptors in regulating renal function; localizing renal olfactory receptors and identifying their ligands in order to understand the role of each receptor in whole-animal physiology

Department/Division: Physiology

Faculty Name: Dr. Zhaozhu Qiu

Research Topic(s): Mechanisms of osmotic regulation in physiology and disease

Department/Division: Physiology

Faculty Name: Dr. Rajini Rao

Research Topic(s): Ion transporters in human health and disease. Calcium signaling in lactation and breast cancer. New roles for endosomal Na⁺/H⁺ exchangers in pH regulation, trafficking, and sodium homeostasis and their contributions to hypertension, autism, and glioblastoma

Department/Division: Physiology

Faculty Name: Dr. Shuying Sun

Research Topic(s): RNA metabolism dysfunction and RNA-targeting therapeutics in neurodegeneration

Department/Division: Physiology

Faculty Name: Dr. Paul Welling

Research Topic(s): Molecular Mechanisms of Salt Balance, Hypertension, and Kidney Disease

Department/Division: Physiology

Faculty Name: Dr. Guang Wong

Research Topic(s): Metabolic physiology of secreted hormones

Department/Division: Physiology

Faculty Name: Dr. Thomas Woolf

Research Topic(s): Molecular dynamics simulations of large conformational changes involved with function; Biophysics of membrane proteins; signaling networks, drug design, and allostery; Relative free energy calculations, estimates of entropy: enthalpy compensation, and insights into structure: function connections.

Department/Division: Plastic Surgery

Faculty Name: Dr. Gerald Brandacher

Research Topic(s): Reconstructive transplantation; research strategies to induce immune tolerance and enhance nerve regeneration after hand and face transplantation

Department/Division: Plastic Surgery

Faculty Name: Dr. Gedge Rosson

Research Topic(s): Dr. Rosson specializes in complex peripheral nerve surgery and microvascular perforator flap breast reconstructions, such as the DIEP (deep inferior epigastric artery perforator flap), the SIEA (superficial inferior epigastric artery flap), the SGAP (superficial gluteal artery perforator flap)

Department/Division: Plastic Surgery

Faculty Name: Dr. Sami Tuffaha

Research Topic(s): Dr. Tuffaha leads a laboratory dedicated to basic and translation research aimed at developing strategies to (1) improve peripheral nerve regeneration and functional recovery; and (2) treat and prevent painful neuroma formation. His research efforts are tightly integrated with collaborators in Biomedical Engineering and Neurology. There are additional opportunities to become involved in ongoing clinical trials that stem from work

Department/Division: Psychiatry and Behavioral Science

Faculty Name: Dr. Arnold Baker

Research Topic(s): Memory impairment in aging and disease; Neuroimaging in neurodegenerative disorders, schizophrenia, depression, and decision making; Clinical trials in Alzheimer's disease

Department/Division: Psychiatry and Behavioral Science

Faculty Name: Dr. Patrick Carroll

Research Topic(s): Opportunities for outcomes research and follow-up studies in patients seeking treatment for addictions

Department/Division: Psychiatry and Behavioral Science

Faculty Name: Dr. Raymond DePaulo

Research Topic(s): Depression and Bipolar Disorder: The impact on society, their causes and outcomes and research prospects

Department/Division: Psychiatry and Behavioral Science

Faculty Name: Dr. Fernando Goes

Research Topic(s): Bipolar Disorder and Major Depression: Opportunities are available for participant in a number of projects related to gene discovery, gene characterization, and gene-phenotypes studies. We have a number of genome-wide association and whole exome/genome st

Department/Division: Psychiatry and Behavioral Science

Faculty Name: Dr. Marco A. Grados

Research Topic(s): Research in genetic-epidemiology and clinical registry in children with obsessive compulsive disorder (Pediatric OCD), Tourette syndrome and attention deficit hyperactivity disorder (ADHD). Risk genetic, neurocognitive, and clinical factors are examined i

Department/Division: Psychiatry and Behavioral Science

Faculty Name: Dr. Roland Griffiths

Research Topic(s): Human behavioral pharmacology of abused drugs

Department/Division: Psychiatry and Behavioral Science

Faculty Name: Dr. Angela Guarda

Research Topic(s): Eating disorders; anorexia nervosa and bulimia nervosa

Department/Division: Psychiatry and Behavioral Science

Faculty Name: Dr. Gerald Nestadt

Research Topic(s): Obsessive/compulsive disorder: doubt in decision-making

Department/Division: Psychiatry and Behavioral Science

Faculty Name: Dr. Glenn Treisman

Research Topic(s): Psychopharmacology; HIV; affective disorders

Department/Division: Psychiatry and Behavioral Science

Faculty Name: Dr. Peter Zandi

Research Topic(s): Depression and Bipolar Disorder: The impact on society, their causes and outcomes and research prospects

Department/Division: Radiation Oncology

Faculty Name: Dr. S Acharya

Research Topic(s): Pediatric oncology

Department/Division: Radiation Oncology

Faculty Name: Dr. F Bunz

Research Topic(s): Responses of cancer cells to DNA damage; human cell genetics

Department/Division: Radiation Oncology

Faculty Name: Dr. C Deville

Research Topic(s): Health equity, prostate cancer

Department/Division: Radiation Oncology

Faculty Name: Dr. M Goldstein

Research Topic(s): Prostate cancer, epigenetics

Department/Division: Radiation Oncology

Faculty Name: Dr. R. Hales

Research Topic(s): Lung cancer and thoracic oncology

Department/Division: Radiation Oncology

Faculty Name: Dr. R. Ivkov

Research Topic(s): Nanomaterials in targeting cancers

Department/Division: Radiation Oncology

Faculty Name: Dr. M. Kai

Research Topic(s): DNA damage response

Department/Division: Radiation Oncology

Faculty Name: Dr. A. Kiess

Research Topic(s): Head and neck cancer

Department/Division: Radiation Oncology

Faculty Name: Dr. L. Kleinberg

Research Topic(s): Diseases of the central nervous system cancer

Department/Division: Radiation Oncology

Faculty Name: Dr. M Ladra

Research Topic(s): Pediatric oncology

Department/Division: Radiation Oncology

Faculty Name: Dr. M. Laiho

Research Topic(s): Genetic response to DNA damage; transcription

Department/Division: Radiation Oncology

Faculty Name: Dr. T. McNutt

Research Topic(s): Radiation Physics

Department/Division: Radiation Oncology

Faculty Name: Dr. J Meyer

Research Topic(s): Gastrointestinal cancers

Department/Division: Radiation Oncology

Faculty Name: Dr. A. Narang

Research Topic(s): Pancreatic cancer

Department/Division: Radiation Oncology

Faculty Name: Dr. W Ngwa

Research Topic(s): Global health

Department/Division: Radiation Oncology

Faculty Name: Dr. H. Quon

Research Topic(s): Head and neck cancer

Department/Division: Radiation Oncology

Faculty Name: Dr. K. Redmond

Research Topic(s): Diseases of the central nervous system

Department/Division: Radiation Oncology
Faculty Name: Dr. D. Song
Research Topic(s): Genitourinary tumors; lung and thoracic tumors; prostate brachytherapy

Department/Division: Radiation Oncology
Faculty Name: Dr. A Viswanathan
Research Topic(s): Gynecologic Oncology

Department/Division: Radiation Oncology
Faculty Name: Dr. R. Voong
Research Topic(s): Lung cancer and thoracic oncology

Department/Division: Radiation Oncology
Faculty Name: Dr. J Wright
Research Topic(s): Patient quality and safety, breast cancer

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Martin Auster
Research Topic(s): Clinical research in diagnostic imaging, focusing on general or interventional radiology imaging or the delivery of imaging services

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Nafi Aygun
Research Topic(s): Neuroradiology

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Ari Blitz
Research Topic(s): Neuroradiology

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Nicholas Ellens
Research Topic(s): MRI guided therapeutic ultrasound; thermal ablation and targeted drug delivery

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. John Eng
Research Topic(s): Evidence-based radiology; statistical analysis of imaging tests and radiology informatics

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Laura Fayad
Research Topic(s): Anatomic, functional, and metabolic imaging of musculoskeletal tumors

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Elliot Fishman
Research Topic(s): Body CT; web-based education; use of social media for medical education and medical information sharing

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Meg Fynes
Research Topic(s): Swallowing function and esophageal imaging

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Philippe Gailloud
Research Topic(s): Neurointerventional radiology

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Assaf Gilad

Research Topic(s): Development of genetically encoded biosensors for imaging intracellular signal transduction at the cellular level with MRI

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Ulrike Hamper
Research Topic(s): Ultrasound research

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Kelvin Hong
Research Topic(s): Value added research in interventional radiology

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Thierry Huisman
Research Topic(s): Advanced MRI imaging in Pediatric Neuroradiology; clinically oriented

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Ihab Kamel
Research Topic(s): Magnetic resonance imaging

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Dara Kraitchman
Research Topic(s): Molecular imaging; stem cell tracking; veterinary minimally invasive procedures and image-guided therapy

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Michael Kraut
Research Topic(s): Functional magnetic resonance imaging

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Sridhar Nimmagadda
Research Topic(s): Chemokine receptor target imaging, therapy, and biology

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Haris Sair
Research Topic(s): Resting state functional MR brain imaging for disease diagnosis and prediction

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Jeff Siewerdsen
Research Topic(s): Image quality in low dose CT; 3D printing in medical imaging; quantitative imaging of bone morphology as an image-based biomarker

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Franco Verde
Research Topic(s): Vascular, small bowel, and pancreatic imaging; quality improvement; informatics

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Piotr Walczak
Research Topic(s): Magnetic Resonance Research

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. Clifford Weiss
Research Topic(s): Interventional radiology

Department/Division: Radiology and Radiological Sciences
Faculty Name: Dr. David Yousem
Research Topic(s): Functional magnetic resonance imaging

Department/Division: Radiology and Radiological Sciences

Faculty Name: Dr. Yun Zhou

Research Topic(s): Quantitative functional imaging with dynamic PET, CT and MRI and its applications in neurodegenerative disease and oncology

Department/Division: Radiology and Radiological Sciences

Faculty Name: Dr. Stefan Zimmerman

Research Topic(s): Investigating advanced cardiac MRI techniques for identifying imaging biomarkers in non-ischemic cardiomyopathies arrhythmias and pulmonary hypertension

Department/Division: Surgery and Surgical Sciences

Faculty name: Dr. Gina Adrales

Research topic(s): Robotic surgery skills acquisition, GERD and Barrett's- optical imaging technology feasibility, video-based assessment, patient decision making using decision tools, outcomes research
*Funding available for some projects

Department/Division: Surgery and Surgical Sciences

Faculty Name: Dr. Andrea Bafford

Research Topic(s): Colorectal surgery, colorectal cancer, inflammatory bowel disease surgery, disparities in surgical care

Department/Division: Surgery and Surgical Sciences

Faculty Name: Dr. Richard Battafarano

Research Topic(s): Clinical studies in lung and esophageal cancer; robotics in thoracic surgery; studies in geriatric thoracic surgery; case reports

Department/Division: Surgery and Surgical Sciences

Faculty Name: Dr. Malcolm Brock

Research Topic(s): Translational research in biomarkers for early detection; recurrence and prognosis of thoracic malignancies

Department/Division: Surgery and Surgical Sciences

Faculty Name: Dr. Susan Gearhart

Research Topic(s): Health Services Research, Geriatric Surgery

Department/Division: Surgery and Surgical Sciences

Faculty Name: Dr. David Hackam

Research Topic(s): Neonatal surgery, gut-brain axis, necrotizing enterocolitis, tissue engineering, artificial intestine
*Funding may be available

Department/Division: Surgery and Surgical Sciences

Faculty Name: Dr. John Harmon

Research Topic(s): Wound healing; esophageal cancer

Department/Division: Surgery and Surgical Sciences

Faculty Name: Dr. Pamela Lipsett

Research Topic(s): Clinical trials in surgical intensive care; surgical infection; education and outcomes

Department/Division: Surgery and Surgical Sciences

Faculty Name: Dr. Thomas Magnuson

Research Topic(s): Clinical outcomes in bariatric surgery

Department/Division: Surgery and Surgical Sciences

Faculty Name: Dr. Lilah Morris-Wiseman

Research Topic(s): Endocrine Surgery clinical research (molecular testing for thyroid nodules, adrenalectomy ERAS pathway, quality of life after adrenalectomy)

*Financial support available for meeting presentations

Department/Division: Surgery and Surgical Sciences
Faculty Name: Dr. Martin Makary
Research Topic(s): Public health aspects of surgery, Health policy

Department/Division: Surgery and Surgical Sciences
Faculty Name: Dr. Bruce Perler
Research Topic(s): Outcomes analysis in vascular disease

Department/Division: Surgery and Surgical Sciences
Faculty Name: Dr. Michael Schweitzer
Research Topic(s): Clinical studies in obesity; metabolism and clinical outcomes

Department/Division: Surgery and Surgical Sciences
Faculty Name: Dr. Mark Slidell
Research Topic(s): Pediatric Trauma and pediatric surgical health services research

Department/Division: Surgery and Surgical Sciences
Faculty Name: Dr. Stephen C. Yang
Research Topic(s): Outcomes, database, clinical, case studies, education, AI, robotics research
*Funding may be available

Department/Division: Urology
Faculty Name: Dr. Mohamad Allaf
Research Topic(s): Minimally invasive surgery; robotics; kidney cancer; prostate cancer

Department/Division: Urology
Faculty Name: Dr. Arthur L. Burnett, II
Research Topic(s): Pelvic neurophysiology; pelvic anatomy; erectile dysfunction; voiding dysfunction; pelvic reconstructive surgery

Department/Division: Urology
Faculty Name: Dr. Woonyoung Choi
Research Topic(s): Systems biology approach on bladder cancer integrating large scale omics data (specially transcriptome data) and clinical data to understand underlying biology of bladder cancer. Development of bladder cancer classifiers, experimental therapeutics, tumor

Department/Division: Urology
Faculty Name: Dr. Marisa Clifton
Research Topic(s): Research elective in medical education, simulation, robotic simulation, neurourology, female urology, clinical outcomes.

Department/Division: Urology
Faculty Name: Dr. Andrew Cohen
Research Topic(s): Outcomes research in genitourinary trauma, urethral stricture disease, or prosthetic urology. Also active projects involving fluid dynamics of urine flow, novel imaging modalities, and the microbiome. Goal is mentorship, research skill development and stu

Department/Division: Urology
Faculty Name: Dr. Heather DiCarlo
Research Topic(s): Bladder exstrophy-epispadias-cloacal exstrophy complex (basic science of detrusor smooth muscle physiology, intra-operative imaging guided surgery of pelvic floor); renal transplantation; GU reconstructive surgery

Department/Division: Urology
Faculty Name: Dr. John P. Gearhart
Research Topic(s): Endocrine manifestations of ambiguous genitalia; bladder muscle nerve and collagen

function in bladder exstrophy; long-term outcomes in ambiguous genitalia

Department/Division: Urology

Faculty Name: Dr. Misop Han

Research Topic(s): Oncology; outcomes research in prostate cancer; robotics in prostate cancer diagnosis and treatment

Department/Division: Urology

Faculty Name: Dr. John Isaacs

Research Topic(s): Development of new therapies for prostatic cancer and molecular mechanisms for control of metastasis

Department/Division: Urology

Faculty Name: Dr. William Isaacs

Research Topic(s): Molecular genetics of prostate cancer and benign prostatic hyperplasia; understanding molecular genetics of BRCA2 and ATM inherited prostate cancer.

Department/Division: Urology

Faculty Name: Dr. Max Kates

Research Topic(s): Urologic Oncology. Bladder cancer, clinical trials, NMIBC, MIBC

Department/Division: Urology

Faculty Name: Dr. Jun Luo

Research Topic(s): High-throughput oriented approaches to study molecular carcinogenesis of human prostate cancer and translational research on novel prostate markers identified using these approaches

Department/Division: Urology

Faculty Name: Dr. Shawn Lupold

Research Topic(s): Prostate cancer; microRNA biology; experimental therapeutics; high throughput library screens

Department/Division: Urology

Faculty Name: Dr. Brian Matlaga

Research Topic(s): Kidney stone disease and surgical treatment

Department/Division: Urology

Faculty Name: Dr. David McConkey

Research Topic(s): Genomic analysis of bladder cancers, bladder cancer experimental therapeutics; molecular mechanisms controlling bladder cancer invasion, migration, and metastasis.

Department/Division: Urology

Faculty Name: Dr. Naren Nimmagada

Research Topic(s): Endourology, BPH.

Department/Division: Urology

Faculty Name: Dr. Sunil Patel

Research Topic(s): Urologic oncology including renal, bladder, and testicular tumors. Environmental toxins; specifically, runs the active surveillance program for kidney cancer and director of testicular cancer

Department/Division: Urology

Faculty Name: Dr. Christian Pavlovich

Research Topic(s): Minimally invasive urologic oncologic surgery; urinary biomarkers for prostate cancer and prostatic diseases

Department/Division: Urology

Faculty Name: Dr. Kenneth Pienta

Research Topic(s): Cancer ecology; understanding prostate cancer metastasis; targeting tumor

associated macrophages

Department/Division: Urology

Faculty Name: Dr. Phillip Pierorazio

Research Topic(s): Urologic oncology including renal, urothelial, prostate, and testicular tumors; specifically, runs the active surveillance program for kidney cancer and director of testicular cancer

Department/Division: Urology

Faculty Name: Dr. Nirmish Singla

Research Topic(s): Clinical and translational research in urologic oncology (kidney, urothelial, testicular, prostate cancers); precision oncology; multidisciplinary treatment approaches; clinical outcomes; biomarker discovery

Department/Division: Urology

Faculty Name: Dr. Dan Stoianovici

Research Topic(s): Urology robotics; image-guided interventions; new technologies

Department/Division: Urology

Faculty Name: Dr. E. James Wright

Research Topic(s): Male and female voiding dysfunction; neurourology; pelvic reconstructive surgery