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

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CLINICAL ELECTIVES

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<td>Pulmonary &amp; Critical Care Medicine</td>
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**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; Dermatopahtology, 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

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

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

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

Faculty Name: Dr. Hind Alsharhan  
Research Topic(s): metabolic disease

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

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

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

Faculty Name: Dr. Xiao Peng  
Research Topic(s): immunogenetics

Faculty Name: Dr. Sonya Rasmussen  
Research Topic(s): geongential abnormalities

Faculty Name: Dr. G Raymond  
Research Topic(s): Neurogenetics, Lysosomal and peroxisomal diseases

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

Faculty Name: Dr. G Raymond  
Research Topic(s): Neurogenetics, Lysosomal and peroxisomal diseases
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. I 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
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. Kolandaivelu
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. Gudzune
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. Pertea  
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. Ransinghe  
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 evidence-based 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
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

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-associate 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

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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
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 Ghiaur  
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. Theodores 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 human herpesvirus-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: Ophthalmology
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
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 extrophy

**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 polyps, 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

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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-Nasser
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): Stoke 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. Sadowsy
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 glioblasto

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 (supe

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 wo

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

Faculty Name: Dr. Raymond DePaulo
Research Topic(s): Depression and Bipolar Disorder: The impact on society, their causes and outcomes and research prospects

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

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

Faculty Name: Dr. Roland Griffiths
Research Topic(s): Human behavioral pharmacology of abused drugs

Faculty Name: Dr. Angela Guarda
Research Topic(s): Eating disorders; anorexia nervosa and bulimia nervosa

Faculty Name: Dr. Gerald Nestadt
Research Topic(s): Obsessive/compulsive disorder: doubt in decision-making

Faculty Name: Dr. Glenn Treisman
Research Topic(s): Psychopharmacology; HIV; affective disorders

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 extrophy-epispadias-cloacal extrophy 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 extrophy; 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