BASIC SCIENCE

Biochemistry and Molecular Biology

Jane Clifford, Ph.D.
Research Interests: Cellular response to DNA damage, regulation of gene expression, cellular proliferation and the cell cycle, cancer.

Tara Davis, Ph.D.
Research Interests: The role that the nuclear cyclophilins, targets of both clinical and physiological relevance, play in spliceosome assembly and regulation of splicing chemistry

Eishi Noguchi, Ph.D.
Research Interests: Genome maintenance mechanisms relevant to cancer biology, including DNA replication, cell cycle checkpoints, and chromatin structure; investigating the mechanisms required for preservation of genomic integrity

Mauricio Reginato, Ph.D.
Research Interests: Signal transduction mechanisms underlying matrix and growth factor regulation of breast epithelial biology and cancer; apoptotic signaling and differentiation.

Keith Vosseller, Ph.D.
Research Interests: Proteomic and biochemical studies on the post-translational regulation of signal transduction through site-specific modification of proteins by O-GlcNAc and phosphorylation

Neurobiology and Anatomy

Marie-Pascale Cote, Ph.D.
Research Interests: Spinal cord injury

Itzhak Fischer, Ph.D.
Research Interests: Cellular and molecular strategies in promoting regeneration; structure and function of neuronal cytoskeleton

Simon Giszter, Ph.D.
Research Interests: Spinal cord organization and control of limb biomechanics

Haviva Goldman, Ph.D.
Research Interests: Bone quality and skeletal fragility
Bruce Hirsh, Ph.D.
Research Interests: 3D imaging and joint biomechanics

John Houle, Ph.D.
Research Interests: Neurotransplantation strategies to promote structural and functional recovery after spinal cord injury

Ramesh Raghupathi, Ph.D.
Research Interests: Cell death and plasticity after traumatic injury to the mature and immature brain

Jed Shumsky, Ph.D.
Research Interests: Behavioral assessment of recovery of function from spinal cord injury

Veronica Tom, Ph.D.
Research Interests: Modulation of extrinsic and intrinsic factors to promote axonal regeneration and plasticity

Ying Jin, Ph.D.
Research Interests: Axonal regeneration and functional recovery after spinal cord injury

Microbiology and Immunology

Elizabeth Blankenhorn, Ph.D.
Research Interests: Genetic foundations for inherited susceptibility to autoimmune diseases, including diabetes, scleroderma and multiple sclerosis. Impact of genetics on wound healing and susceptibility to viral infection

Tim Block, Ph.D.
Research Interests: Molecular mechanisms of viral persistence and development of therapeutic strategies for hepatitis B virus (HBV) and herpes simplex virus (HSV)

Pooja Jain, Ph.D.
Research Interests: Dendritic cells in autoimmune and neuroinflammatory disease

Sandhya Kortagere, Ph.D.
Research Interests: Designing small molecule modulators of therapeutically relevant protein targets using structure based drug design methods
Julio Martin-Garcia, Ph.D.
Research Interests: HIV-1 envelope-mediated fusion and entry, HIV neurotropism and neuropathogenesis

Pamela Norton, Ph.D.
Research Interests: Development of novel antiviral drugs for use against hepatitis B virus (HBV) infection; host cell defenses against HBV infection

Rick Rest, Ph.D.
Research Interests: Molecular and cellular mechanisms of the pathogenesis of Neisseria gonorrhoeae, Neisseria meningitidis, and Bacillus anthracis

Laura Steel, Ph.D.
Research Interests: Development of RNAi-based therapies for hepatitis B virus (HBV) and HIV-1

Ying-Hsiu Su, Ph.D.
Research Interests: Understanding interactions between herpes simplex virus type 1 (HSV-1) and neurons during viral latency and reactivation; using nucleic acids in urine as diagnostic markers of cancer

Akhil Vaidya, Ph.D.
Research Interests: Understanding basic molecular functioning of malaria parasites with a view to developing new antimalarial drugs.

Brian Wigdahl, Ph.D.
Research Interests: Immunopathogenesis and neuropathogenesis of HIV-1 and HTLV-I infection, transcriptional regulation of retroviral expression, viral sequence diversity and correlations to disease, development of microbicidal agents

Pharmacology and Physiology

Janet Clark, Ph.D.
Research Interests: Exploration of a relatively new model of depression in which chronic elevation of pro-inflammatory cytokines is accompanied by increased depressive-like behaviors

Alessandro Graziano, Ph.D.
Research Interests: Understanding the mechanisms of central nervous system plasticity that cause the emergence and maintenance of central pain after spinal cord injury or other chronic pain conditions
Ole Mortensen, Ph.D.
Research Interests: Understanding of how drugs of abuse and antidepressants interact with and modulate the function of the dopamine (DAT) and serotonin transporter (SERT) and to identify the cellular processes that are involved in regulating DAT and SERT function

CLINICAL DEPARTMENTS

Cardiothoracic Surgery

J. Yasha Kresh, Ph.D.
Research Interests: Cardiac remodeling (nano-macro scale) and mechanotransduction, heart-failure pathophysiology, myocardial repair and regeneration, cardiac function and replacement devices (TAH, LVADs), cardiovascular cellular and tissue engineering, biosensors

Emergency Medicine

Sharon Griswold-Theodoreson, M.D., FACEP
Research Interests: Asthma, emergency medicine procedures

James Roberts, M.D., FACEP, FAAEM
Research Interests: Emergency medicine, toxicology

Mark Saks, M.D., FAAEM, MPH
Research Interests: Medical education and neurologic emergencies

Family, Community and Preventive Medicine

David Berkson, M.D.
Research Interests: Family medicine, sports medicine

Infectious Disease and HIV Medicine

Jeffrey Jacobson, M.D.
Research Interests: Infectious diseases, HIV, immunology

Medicine

Michele Kutzler, Ph.D.
Research Interests: Translational research in vaccinology, immunology and infectious disease
Neurology

Yuesong Gong, Ph.D.
Research Interests: Alzheimer's disease

Carol Lippa, M.D.
Research Interests: Clinicopathologic mechanisms underlying neuronal death in neurodegenerative diseases

Robert Schwartzman, M.D.
Research Interests: Chronic pain with specific focus in complex regional pain syndrome (CRPS)

David Tabby, D.O.
Research Interests: Multiple sclerosis

OB/GYN

Karen Berkowitz, M.D.
Research Interests: Meiosis, meiotic recombination, and chromosome segregation, processes that crucial to germ cell development and genome integrity

Bernard Eskin, M.D.
Research Interests: Hormonal variation disturbed by iodine deficiency and how these hormones affect breast tissues

Pathology and Laboratory Medicine

Claudio Torres, Ph.D.
Research Interests: Aging

Pediatrics

Jahan Ara, Ph.D.
Research Interests: Neonatal hypoxia; neurodegeneration

Psychiatry

David Bennett, Ph.D
Research Interests: Child and adolescent psychiatry
Radiology

Michael Hallowell, M.D.

Robert Koenigsberg, D.O.

Radiation Oncology

Lydia Komarnicky, M.D.
Research Interests: Breast, lung and eye tumors

Jaganmohan Poli, M.D.
Research Interests: Radiation oncology, prostate cancer

Surgery

Ari Brooks, M.D.
Research Interests: Surgical oncology

Suresh Joshi, M.D., Ph.D.
Research Interests: Surgical site infections, bacterial pathogenesis and novel antibacterial agents, biodefense

D. Scott Lind, M.D.
Research Interests: Breast cancer and melanoma

Juan Lucas Poggio, M.D., M.S., FACS, FASCRS
Research Interests: Laparoscopic treatment of diverticulitis, inflammatory bowel disease and colorectal polyps, and anal sphincter incontinence

Boris Polyak, Ph.D.
Research Interests: Nanoparticles for drug delivery; regenerative medicine

Michael Weingarten, M.D, M.B.A
Research Interests: Wound healing, vascular Surgery

Women's Health Education Program

Ana Nunez, M.D.
Research Interests: Girls’ and women’s health, minority women’s health and culturally effective care
ADMINISTRATIVE DEPARTMENTS

Office of Educational Affairs

Dennis Novack, M.D.
Research Interests: Physician-patient communication

DREXEL UNIVERSITY

COLLEGE OF ARTS AND SCIENCES, Bioscience and Biotechnology

Daniel Marenda, Ph.D.
Research Interests: Neurogenesis, Alzheimer’s disease, developmental neurobiology in Drosophila

SCHOOL OF BIOMEDICAL ENGINEERING, SCIENCE AND HEALTH SYSTEMS

Wan Shih, Ph.D.
Research Interests: Piezoelectric microcantilever biosensors development, piezoelectric finger development, quantum dots development, tissue elasticity imaging, piezoelectric microcantilever force probes

AFFILIATES

LANKENAU INSTITUTE FOR MEDICAL RESEARCH

James Mullin, Ph.D.
Research Interests: Role of gastrointestinal (tight junctional) leakiness in cancer, inflammatory disease, and drug delivery