

Faculty Members

Name (training roles: "Pre", predoc; "Post", postdoc; "K", KL2)	Degree(s)	Rank	Institution	Primary Department or Program	Research Interest
Alberts, Jay	PhD	Professor	Cleveland Clinic	Biomedical Engineering	Parkinson's disease; deep brain stimulation; forced exercise; assisted exercise; stroke; robotics; concussion assessment
Apte, Suneel (Post, K)	MBBS	Associate Professor	Cleveland Clinic	Molecular Medicine	Connective tissue biology, orthopedic research
Aron, David (Post, K)	MD	Professor	Veterans Affairs Medical Center	Medicine	Quality improvement implementation research and medical error
Barnholtz-Sloan, Jill (Pre, Post, K)	PhD	Professor	Case Comprehensive Cancer Center	Cancer Center	Cancer genetic/molecular epidemiology, biostatistics, bioinformatics, systems biology, brain tumors
Bonomo, Robert (Pre, Post, K)	MD	Professor	Veterans Affairs Medical Center	Medicine	Bacterial resistance to beta-lactams
Boom, W. Henry (Pre, Post, K)	MD	Professor	University Hospitals	Medicine	Immunology of Mycobacterium tuberculosis
Chance, Mark (Pre, Post, K)	PhD	Professor	Case Western Reserve University	Systems Bio & Bioinfrm	Systems Biology, Structure and Modeling of Protein Interaction Networks, Applications to Immunology and Infectious Diseases
Cominelli, Fabio (Post, K)	MD PhD	Professor	University Hospitals	Medicine	Mucosal immune responses in association with GI inflammation

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Connors, Al (Post, K)	MD	Professor	MetroHealth Medical Center	Medicine	Health Services Research
Cooper, Kevin (Pre, Post, K)	MD	Professor	University Hospitals	Dermatology	Psoriasis, Atopic Dermatitis, Immunobiology, Photobiology, Autoimmunity, UV & Solar Effects, Immunomodulatory Therapy
Crawford, Dana	PhD	Associate Professor	Case Western Reserve University	Epidemiology and Biostatistics	Identifying pleiotropy (when a single gene influences two or more seemingly unrelated physical traits) and environmental modifiers of genetic associations, including pharmacogenomics
Dalton, Jarrod (K)	PhD	Assistant Professor	Cleveland Clinic	QHS	Medical decision making; mathematical, ecological and systems-based modeling; causal network modeling; prediction science; health economics; information theory; and statistical software development
Damaser, Margot (K)	PhD	Professor	Cleveland Clinic	Lerner Research Institute (BME)	Incontinence and Pelvic Floor Disorders; Regenerative Medicine; Devices
Dawson, Neal (Post, K)	MD	Professor	MetroHealth Medical Center	Medicine	Medical decision-making, health services/outcomes, multivariate models
Dell, Katherine (K)	MD	Professor	Cleveland Clinic	Children’s Hospital, Nephrology	Inherited kidney diseases, polycystic kidney disease, congenital kidney malformations
Derwin, Kathe (K)	PhD	Assistant Professor	Cleveland Clinic	Lerner Research Institute (BME)	Healing and outcomes of soft tissue repairs especially in the shoulder

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Deschenes, Isabelle (Pre, Post, K)	PhD	Professor	MetroHealth Medical Center	Medicine	Molecular mechanisms of cardiac arrhythmias
Dweik, Raed (Post, K)	MBBS	Professor	Cleveland Clinic	Pulmonary	Pulmonary hypertension, asthma, nitric oxide biology, exhaled breath analysis, biomarkers, lung matrix, hyaluronan
Eng, Charis (Pre, Post, K)	MD PhD	Professor	Cleveland Clinic	Genetics & Genome Sc	Human cancer genetics, Genetics-informed personalized oncology
Erzurum, Serpil (Pre, Post, K)	MD	Professor	Cleveland Clinic	Pulmonary, Lerner Research Institute	Severe asthma, nitric oxide (NO) and NO synthases, hypoxia inducible factor and signal transduction, gender discordance in asthma
Exner, Agata (Pre, Post, K)	PhD	Professor	University Hospitals	Radiology	Biomaterials and drug delivery systems, including minimally invasive methods of cancer treatment with ultrasound-modulated, image-guided drug delivery, thermosensitizers for focused hyperthermia, and vasomodulation for improved local ablation and treatment follow-up.
Fairchild, Robert (Pre, Post, K)	PhD	Professor	Cleveland Clinic	Molecular Medicine	Transplantation Immunobiology and Cutaneous Inflammation

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Farrell, Ruth (K)	MD	Associate Professor	Cleveland Clinic	Women's Health, GYN	Adolescent and women's reproductive health, medical gynecology, reproductive ethics, general gynecology, health policy of women's health
Flocke, Susan (Post)	PhD	Associate Professor	University Hospitals	Fam Med & Comm Hlth	Health services research and cancer prevention, health behavior change and measurement
Freedman, Darcy (Post)	MPH PhD	Associate Professor	Case Western Reserve University	Epid & Biostat	Food access interventions, public health literacy, primary prevention of chronic disease, community-engaged research, health disparities reduction, policy, systems, and environmental interventions
Gerson, Stanton (Pre, Post, K)	MD	Professor	University Hospitals	Comprehensive Cancer Center	Drug resistance gene transfer; stem cell gene transfer; DNA repair and leukemogenesis
Haines, Jonathan (Pre, Post, K)	PhD	Professor	Case Western Reserve University	Epid & Biostat	Integrating research in population, clinical and molecular epidemiology, outcomes research, and quantitative methodology development
Harding, Clifford (Pre, Post, K)	MD PhD	Professor	Case Western Reserve University	Pathology	Immunology, Infectious Disease & Pathology

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Hazen, Stanley L (Pre, Post, K)	MD PhD	Professor	Cleveland Clinic	Molecular Medicine	Inflammation biochemistry, lung pathobiology, cardiovascular disease
Hickman, Ronald L (Pre. K)	PhD RN	Associate Professor	Case Western Reserve University	Nursing	Decision making, Critical illness, Health services
Huang, Alex (Pre, Post, K)	MD PhD	Associate Professor	University Hospitals	Pediatrics	Regulation between immune activation and tolerance is crucial in the pathogenesis of cancer
Iyengar, Sudha (Pre, Post, K)	PhD	Professor	Case Western Reserve University	Epid & Biostat	Genetics of multifactorial human disorders
Jackson, Mark (Pre, Post)	PhD	Associate Professor	Case Western Reserve University	Pathology	Genetic events that contribute to breast hyperplasia
Jain, Mukesh Kumar (Pre, Post, K)	MD	Professor	University Hospitals	Medicine	Cardiovascular research including novel areas of investigation with therapeutic implications for disease conditions such as arteriosclerosis, heart failure, metabolism and regenerative medicine.

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Kazura, James (Pre, Post, K)	MD	Professor	Case Western Reserve University	Global Health & Disease	Immune responses to malaria & lymphatic filiariasis; vaccine development
Keri, Ruth (Pre, Post, K)	PhD	Professor	Case Western Reserve University	Pharmacology	Hormonal control of mammalian cancer susceptibility
King, Christoph er (Pre, Post, K)	MD PhD	Professor	Case Western Reserve University	Global Health & Disease	Schistosomiasis, filariasis & malaria, immuno- parasitology; immune response to prenatal parasite exposure; vaccine development
Kirsch, Robert (Pre, Post, K)	PhD	Professor	Case Western Reserve University	Biomedical Eng	Restoring Movement to Disabled individuals Using Functional Electrical Stimulation (FES) and Controlling FES Actions Via Natural Neural Commands
Lathia, Justin	PhD	Associate Professor	Cleveland Clinic	Cellular and Molecular Medicine	<i>Cancer stem cells; brain tumors; cell to cell communication; in vivo imaging</i>
Lederman, Michael (Pre, Post, K)	MD	Professor	University Hospitals	Infectious Disease	Mechanisms of immune deficiency and immune restoration in HIV-1 infection

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Letterio, John (Pre, Post, K)	MD	Professor	University Hospitals	Pediatrics	Chemoprevention in colon cancer
Levine, Alan (Pre, Post, K)	PhD	Professor	Case Western Reserve University	Molecular Bio & Micro	Mucosal Immunology, T cell signal transduction, regulation of T cells by extra-cellular matrix in GI track
Li, Xiaoxia (Pre, Post, K)	PhD	Professor	Cleveland Clinic	Molecular Medicine	Signal transduction in innate and adaptive immunity
Lu, Zheng-R ong (Pre, Post, K)	PhD	Professor	Case Western Reserve University	Biomedical Eng	Drug delivery systems using novel polymer and molecular constructs and nanotechnologies.
Maciejewski, Jaroslaw (Post, K)	MD	Professor	Cleveland Clinic	Medicine	Molecular pathogenesis of bone marrow failure syndromes; specific aspects of stem cell biology, genetics, cytogenetics and immunobiology
Madabhushi, Anant (Pre, Post, K)	PhD	Professor	Case Western Reserve University	Biomedical Eng	Quantitative image analysis; Multi-modal, multi-scale correlation of massive data sets for disease diagnostics, prognostics, theragnostics: cancer application

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Markowitz, Sanford (Pre, Post, K)	MD PhD	Professor	University Hospitals	Medicine	Molecular abnormalities in colon cancer including suppressor genes and oncogenes, positive and negative regulatory growth factors, and the role of genomic instability in inherited and sporadic colon cancers
McIntyre, Cameron (Pre, Post, K)	PhD	Professor	Case Western Reserve University	Biomedical Eng	Neurophysiological effects and engineering design of DBS systems
Moore, Shirley (Pre, Post, K)	PhD RN	Professor	Case Western Reserve University	Nursing	Recovery following cardiac events; Health behavior change; Exercise following cardiac events; Childhood obesity; Quality and safety, Clinical trials / Field trials of cardiac risk prevention, particularly exercise computer health trials
Moravec, Christine (K)	PhD	Assistant Professor	Cleveland Clinic	Lerner Research Institute (Molecular Cardiology)	Human heart failure
Nagy, Laura (Pre, Post, K)	PhD	Professor	Cleveland Clinic	Molecular Medicine	Alcoholic liver disease; innate immunity; macrophage function
Ontaneda, Daniel (K)	MD	Assistant Professor	Cleveland Clinic	Mellen Center, Neurology	Multiple Sclerosis
Rose, Susannah (K)	PhD	Assistant Professor	Cleveland Clinic	Bioethics	The effects of transparency on patient-reported outcomes; testing the impact of innovations in technology, communication and end-of-life care on health outcomes and patient satisfaction

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Schiemann, William (Pre, Post, K)	PhD	Professor	Case Comprehensive Cancer Center	Cancer Center	TGF- β Paradox" and its relationship to the initiation of epithelial-mesenchymal transition
Sedor, John (Post, K)	MD	Professor	Cleveland Clinic	Nephrology	Genetic and genomic mechanisms of kidney disease pathogenesis
Sekeres, Mikkael (K)	MD	Professor	Cleveland Clinic	Hematology & Medical Oncology	Leukemia, myelodysplastic syndromes, bone marrow failure syndromes, myeloproliferative neoplasms, clinical trials, cancer
Smith, Jonathan (Pre, Post, K)	MD	Professor	Cleveland Clinic	Molecular Medicine	Atherosclerosis, genetics, cholesterol metabolism
Stamler, Jonathan S (Pre, Post, K)	MD	Professor	University Hospitals	Medicine	Redox-based cellular regulation and signal transduction, and in particular the role of protein S-nitrosylation
Stange, Kurt (Pre, Post, K)	MD PhD	Professor	University Hospitals	Fam Med & Comm Hlth	Effectiveness of family practice networks

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Stein, Catherine (Pre, Post)	PhD	Associate Professor	Case Western Reserve University	Epid & Biostat	Genetic susceptibility to tuberculosis (TB), immune response to TB, and clinical epidemiology of TB, proteomics
Steinmetz, Nicole (Pre, Post)	PhD	Associate Professor	Case Western Reserve University	Biomedical Eng	Design, development, and testing of novel materials based on plant viral nanoparticles (VNPs) from plants for applications in medicine and materials science
Subauste, Carlos (Pre, Post)	MD	Associate Professor	University Hospitals	Medicine	CD40, Ocular toxoplasmosis, HIV infection, autophagy in immune responses
Tang, W H Wilson (Post, K)	MD	Professor	Cleveland Clinic	Center for Clinical Genomics	Heart failure and transplant cardiologist; adjunct faculty at Dept of Cell Biology at Lerner Research Institute. Mechanistic understanding of cardiomyopathies and heart failure
Tesar, Paul (Pre, Post)	PhD	Associate Professor	Case Western Reserve University	Genetics & Genome Sci	Pluripotent stem cells
Tonelli, Adriano (K)	MD	Assistant Professor	Cleveland Clinic	Pulmonary	Pulmonary embolism, pulmonary hypertension, scleroderma

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Triolo, Ronald (Pre, Post, K)	PhD	Professor	MetroHealth Medical Center	Orthopaedics	Musculoskeletal biomechanics, rehabilitation engineering and development of assistive technology, neural stimulation, implanted lower-extremity and spinal neuroprostheses, human gait, standing/seated posture and balance
Van Wagoner, David (K)	PhD	Associate Professor	Cleveland Clinic	Lerner Research Institute (Molecular Cardiology)	Cardiovascular pathophysiology / arrhythmogenesis / genomics
Wald, David N (Pre, Post)	MD PhD	Assistant Professor	University Hospitals	Pathology	Identification and development of novel therapeutic strategies for cancer with a particular focus on Acute myeloid leukemia (AML)
Weiss, Michael (Pre, Post, K)	MD PhD	Professor	Case Western Reserve University	Biochemistry	Mechanisms of complications of long-term diabetes, benign pathologies of the bladder, control of gene expression, and protein folding and misfolding
Yu, Jennifer (K)	MD, PhD	Associate Professor	Cleveland Clinic	Radiation Oncology	Glioma stem cells, brain metastases, radiation resistance, hypoxia, signal transduction, clinical trials
Zhu, Xiaofeng (Pre, P ost, K)	PhD	Professor	Case Western Reserve University	Epid & Biostat	Statistical Genetics and genetic epidemiology, Hypertension, obesity, sleep apnea, bioinformatics