

Faculty Members

| Name (training roles: "Pre", predoc; "Post", postdoc; "K", KL2) | Degree(s) | Rank | Institution | Primary Department or Program | Research Interest |
|---|-----------|---------------------|----------------------------------|-------------------------------|---|
| 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 & Bioinform | 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 |
| Connors, Al (Post, K) | MD | Professor | MetroHealth Medical Center | Medicine | Health Services Research |

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| Cooper, Kevin (Pre, Post, K) | MD | Professor | University Hospitals | Dermatology | Psoriasis, Atopic Dermatitis, Immunobiology, Photobiology, Autoimmunity, UV & Solar Effects, Immunomodulatory Therapy |
| 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 |
| Deschenes, Isabelle (Pre, Post, K) | PhD | Professor | MetroHealth Medical Center | Medicine | Molecular mechanisms of cardiac arrhythmias |

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| 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 |
| 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 |

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| 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 |
| Hazen, Stanley L (Pre, Post, K) | MD PhD | Professor | Cleveland Clinic | Molecular Medicine | Inflammation biochemistry, lung pathobiology, cardiovascular disease |

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| 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. |
| Kazura, James (Pre, Post, K) | MD | Professor | Case Western Reserve University | Global Health & Disease | Immune responses to malaria & lymphatic filiariasis; vaccine development |

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| Keri, Ruth (Pre, Post, K) | PhD | Professor | Case Western Reserve University | Pharmacology | Hormonal control of mammalian cancer susceptibility |
| King, Christopher (Pre, Post, K) | MD PhD | Professor | Case Western Reserve University | Global Health & Disease | Schistosomiasis, filariasis & malaria, immunoparasitology; 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 |
| Lederman, Michael (Pre, Post, K) | MD | Professor | University Hospitals | Infectious Disease | Mechanisms of immune deficiency and immune restoration in HIV-1 infection |
| Letterio, John (Pre, Post, K) | MD | Professor | University Hospitals | Pediatrics | Chemoprevention in colon cancer |

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| 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 |
| 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 |

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| 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 |
| 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 |
| 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 |

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| Sedor, John (Post, K) | MD | Professor | Cleveland Clinic | Nephrology | Genetic and genomic mechanisms of kidney disease pathogenesis |
| Sekerer, Mikkael (K) | MD | Professor | Cleveland Clinic | Hematology & Medical Oncology | Leukemia, myelodysplastic syndromes, bone marrow failure syndromes, myeloproliferative neoplasms, clinical trials, cancer |
| Sharifi, Nima (Pre, Post, K) | MD | Professor | Cleveland Clinic | Cancer Biology | GU Malignancies; prostate and renal 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 |
| 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 |

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| 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 |
| 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 |

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| 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 |
| Zhou, Lan (K) | MD, PhD | Associate Professor | Case Western Reserve University | Molecular Genetics | Understanding how fucosylation affects Notch- dependent regulation of hematopoietic stem cell proliferation, early myeloid lineage specification and hematopoietic stem cell niche maintenance |
| Zhu, Xiaofeng (Pre, P ost, K) | PhD | Professor | Case Western Reserve University | Epid & Biostat | Statistical Genetics and genetic epidemiology, Hypertension, obesity, sleep apnea, bioinformatics |