Name	PhD Granting Program	Phone	E-mail	Research Description
Alberts, Jay PhD	Biomedical Engineering	216-445-3222	albertj@ccf.org	How the brain controls skilled movements and how changes in brain function affect the movement performance; Parkinson's disease, stroke and concussion; improving movement and cognitive performance
Alsberg, Eben PhD	Biomedical Engineering	216-368-6425	eben.alsberg@case.edu	Biomimetic tissue engineering; innovative biomaterials and drug delivery vehicles for functional tissue regeneration and cancer therapy; control of stem cell differentiation
Altose, Murray MD	KL2	216-791-3800 x4660	murray.altose@med.va.gov	Chronic obstructive pulmonary disease
Anderson, James MD, PhD	Biomedical Engineering, Pathology	216-368-0279	jma6@case.edu	Biocompatibility of implants, human vascular grafts, immune responses to foreign materials, phagocytosis, inflammation
Apte, Suneel MBBS	KL2	216-445-3278	aptes@ccf.org	Connective tissue biology, orthopedic research
Aron, David MD, MS	KL2	216-421-3098	david.aron@va.gov	Quality improvement implementation research and medical error
Atit, Radhika PhD	Genetics, Pathology	216-368-8819	radhika.atit@case.edu	Embryonic skin development
Barnholtz-Sloan, Jill PhD	Epidemiology & Biostatistics; Systems Biology & Bioinformatics	216-368-1506	jsb42@case.edu	Cancer genetic/molecular epidemiology, biostatistics, bioinformatics, systems biology, brain tumors
Beall, Cynthia MD, PhD	KL2	216-368-2277	Cmb2@case.edu	High-altitude physical anthropology
Berger, Nathan MD	KL2	216-368-4084	nab@case.edu	Cellular, biochemical, and molecular responses to DNA damage, how these processes differ between normal and transformed cells, how their aberrations result in cell death and malignant transformation and how they can be modulated to enhance therapeutic strategies
Blackstone, Gene MD	KL2	216-444-6712	blackse@ccf.org	Cardiovascular and thoracic surgery / Clinical research / Statistical models of time-related events and longitudinal data / Advanced database development
Bonomo, Robert MD	KL2	216-791-3800 x4399	rab14@case.edu	Bacterial resistance to beta-lactams
Boom, Henry MD	KL2	216-368-4844	whb@case.edu	Infectious diseases, immunology
Brown, Robert PhD	KL2	216-368-4010	rwb@case.edu	Biophysics, MRI, electrical sensors
Bruggeman, Leslie PhD	KL2	216-778-7603	Lab28@case.edu	Renal epithelial cells, kidney development
Calabrese, Joseph MD	KL2	216-844-2865	Joseph.calabrese@uhhs.com	Treatment-oriented research for bipolar disorder
Caplan, Arnold PhD	Biomedical Engineering	216-368-3562	arnold.caplan@case.edu	Developmental and cell biology and biochemistry of muscle, cartilage, bone, skin and connective tissue, with emphasis on how stem cells differentiate under conditions of tissue-engineered regeneration
Cebul, Randall MD	KL2	216-778-3908	rdc@case.edu	Health care and outcomes research / Clinical epidemiology
Chae, John MD	KL2	216-778-3472	jchae@metrohealth.org	Neuromuscular electrical stimulation for upper extremities
Chance, Mark PhD	Genetics, Systems Biology & Bioinformatics	216-368-4406	mark.chance@case.edu	Systems Biology, Protein Structure/Function, Cancer, Diabetes
Cohen, Jeff MD	KL2	216-445-8110	cohenj@ccf.org	Multiple sclerosis, clinical trials, outcome measures, cell-based therapy
Connors, Alfred MD	KL2	216-778-4900	AConnors@MetroHealth.org	Health services research
Cromer, Barbara MD	KL2	216-778-2643	bcromer@metrohealth.org	Adolescent medicine, bone, hormonal contraception
Daly, Barbara PhD, RN, FAAN	KL2 & Nursing	216-368-5994	bjd4@case.edu	End of life issues; long-term ventilation; caregiving in chronic illness; health care outcomes and costs; disease management for the chronically ill, Clinical ethics consultation, healthcare allocation
Darrah, Rebecca PhD	KL2 & Nursing	216-368-0726	rjm11@case.edu	Genetics of airway diseases, use of mouse models to understand the effects of disease modifying genes, genetics of asthma
Dawson, Neal MD	KL2	216-778-3901	ndawson@metrohealth.org	Medical decision-making, health services/outcomes, multivariate models
Dealwis, Chris PhD	Pharmacology	216-368-1652	chris.dealwis@case.edu	Structure-function and regulation of ribonucleotide reductase (RNR) by small molecule effectors and its protein inhibitor; Structure-function of pathogenic amyloid forming proteins; Enzyme catalytic mechanisms

Deschênes, Isabelle PhD	Biomedical Engineering, Physiology & Biophysics	216-778-5166	ideschenes@metrohealth.org	Molecular basis of cardiac arrhythmias
Dolansky, Mary PhD, RN	Nursing, KL2	216-368-0568	mad15@case.edu	Cardiac rehabilitation, heart failure self management and cognitive impairment
Donahue, J. Kevin MD	Physiology & Biophysics	216-778-5998	kdonahue@metrohealth.org	Cardiac arrhythmia mechanisms, arrhythmia therapy outcomes, gene therapy, and virology
Douglas, Sara L PhD, RN	KL2 & Nursing	216-368-0702	sld4@case.edu	Long term ventilation, caregiving in chronic critical illness, health care outcomes, disease management of the chronically critically ill, advanced cancer, caregivers
Duerk, Jeffrey PhD	KL2 & Biomedical Engineering	216-368-4063	jld3@case.edu	Magnetic resonance imaging, flow visualization, interventional MRI, rapid MR imaging, MR vessel wall imaging, physics research
Durand, Dominique PhD	Biomedical Engineering, Neurosciences, Physiology & Biophysics,	216-368-3974	dxd6@case.edu	Neural engineering, neural prostheses, magnetic and electric stimulation of the nervous system, electrophysiology of epilepsy, computational neuroscience
Dweik, Raed MD	KL2	216-445-5763	dweikr@ccf.org	Pulmonary hypertension, asthma, nitric oxide biology, exhaled breath analysis, biomarkers, lung matrix, hyaluronan
Elston, Robert PhD	KL2 & Epidemiology & Biostatistics	216-368-5630	robert.elston@cwru.edu	Development of statistical methods for analyzing family and pedigree data for the identification of genes that cause disease, Statistical genetics / Genetic epidemiology
Eng, Charis MD, PhD, FACP	KL2	216-444-3440	Engc@ccf.org	Clinical cancer genetics translational research - human cancer geneticist and genomicist/genetics-based personalized healthcare
Erzurum, Serpil MD	KL2	216-445-6624	erzurus@ccf.org	Asthma, pulmonary hypertension, lung biology/physiology
Exner, Agata PhD	Biomedical Engineering, Cancer Biology	216-844-3544	Agata.Exner@case.edu	Minimally invasive methods of cancer treatment including ultrasound-modulated, image-guided drug delivery, thermosensitizers for focused hyperthermia, and vasomodulation
Fairchild, Robert PhD	Pathology/Immunology	216-444-3146	fairchr@ccf.org	T-lymphocyte tolerance, transplantation immunology
Flannery, Daniel PhD	KL2	216-368-0109	daniel.flannery@case.edu	Violence and mental health; violence prevention; applied community-based research, program evaluation
Flocke, Susan PhD	KL2	216-368-3887	susan.flocke@case.edu	Health services research and cancer prevention, health behavior change and measurement
Gerson, Stanton MD	KL2	216-844-8562	stanton.gerson@case.edu	Hematology/oncology; gene transfer
Ghannoum, Mahmoud PhD	KL2	216-844-8580	Mahmoud.Ghannoum@UHhospitals.org	Microbial biofilms, microbiome and Mycobiome, Fungal Infections and pathogenesis, preclinical in vitro and in vivo evaluation of potential antimicrobials
Graham, Linda MD	KL2	216-445-9878	grahaml@ccf.org	Vascular grafts, vascular surgery
Harding, Clifford MD, PhD	KL2	216-368-5059	cvh3@case.edu	Immunology, Infectious Disease & Pathology
Hazen, Stanley MD	KL2	216-444-9426	hazens@ccf.org	Inflammation biochemistry, lung pathobiology, cardiovascular disease
Henderson, Michael MD	KL2	216-444-8462	henderm@ccf.org	Liver transplantation, pancreatic surgery
Heston, Warren PhD	KL2	216-444-8181	hestonw@ccf.org	Prostate cancer, gene therapy
Hickman, Ronald PhD, RN, ACPN-BC, FAAN	KL2	216-368-2147	rlh4@case.edu	Decision making under risk and uncertainty, evaluation of decision support interventions, health services utilization of the acutely/chronically critically ill, advanced statistical methods
Higgins, Patricia PhD, RN	KL2 & Nursing	216.368.8850	pxg3@case.edu	Circadian Rhythms; Geriatrics; Adult Failure to Thrive, Chronically critically ill, EOL issues, organizational change
Huang, Emina MD	KL2	216-442-5097	huange2@ccf.org	Pathogenesis of cancer
Ismail-Beigi, Faramarz MD, PhD	KL2	216-368-6129	fxi2@case.edu	Cardiovascular Disease and Diabetes

Iyengar, Sudha PhD	Genetic & Molecular Epidemiology, Genetics, Systems Biology & Bioinformatics, KL2	216-368-4388	ski@case.edu	Genetic Epidemiology with expertise in diabetic nephropathy and ocular diseases
Jones, Katherine PhD, RN, FAAN	Nursing	216.368.5979	krj13@case.edu	Evidence-based clinical and managerial practice; Translating research findings into practice and policy; Nursing home quality; Pain and wound care in the elderly population
Kaiser, Peter MD	KL2	216-444-6702	kaiserp@ccf.org	vitreoretinal diseases, retinal detachment, diabetic retinopathy, endophthalmitis
Kalayjian, Robert MD	KL2	216-778-7828	rkalayjian@metrohealth.org	Infectious Disease
Keri, Ruth PhD	KL2	216-368-3495	Rak5@case.edu	Mammary gland development, mouse models of breast cancer
Killion, Cheryl PhD, RN, FAAN	Nursing	216.368.0462	cmk61@case.edu	Health and Homelessness/Housing; African American Maternal Health; Integrative Healing; Health Disparities
Kim, Julian MD	KL2	216-844-8247	julian.kim@uhhospitals.org	Immunotherapy of cancer; treatment of melanoma, sarcoma and breast cancer, surgical oncology
King, Charles MD	KL2	216- 368-3667	chk@case.edu	Clinical epidemiology, ecology of infectious disease, and control strategies for vector-borne and parasitic infections
Kirsch, Robert PhD	Biomedical Engineering	216-368-3158	rfk3@case.edu	Restoration and control of arm movements by function electrical stimulation; brain-computer interfacing
Kirwan, John PhD	KL2	216-444-3412	kirwanj@ccf.org	The physiological and metabolic mechanisms that contribute to obesity, insulin resistance and related chronic disease, including NASH, type 2 diabetes and cardiovascular disease.
Klein, Eric MD	KL2	216-444-5591	kleine@ccf.org	Prostate cancer, urologic oncology
Knutson, Jayme PhD	KL2	216-778-8364	jsk12@case.edu	Functional electrical stimulation, neurorehabilitation, biomedical engineering
Kodish, Eric MD	KL2	216-444-3850	kodishe@ccf.org	Pediatric ethics, research ethics, childhood cancer
Konstan, Michael MD	KL2	216-844-3267	Michael.konstan@case.edu	Pediatric pulmonology, cystic fibrosis
Koyutürk, Mehmet PhD	Systems Biology and Bioinformatics	216-368-2963	mehmet.koyuturk@case.edu	Bioinformatics and computational biology, network biology, analysis of high-throughput biological data
LaFramboise, Thomas PhD	Systems Biology and Bioinformatics, Genetics	216-368-0150	thomas.laframboise@case.edu	Developing and applying computational tools to identify molecular variants - both inherited and somatic - that contribute to cancer and related diseases in humans
Laughlin, Mary RN, MD	KL2	216-368-5697	Mjl13@case.edu	Allogenic bone marrow transplantation, cord-blood transplantation
Lavik, Erin ScD	Biomedical Engineering	216-368-0400	erin.lavik@case.edu	Translatable approaches to treat injuries to and diseases of the central nervous system including spinal cord injury, glaucoma, and retinal degeneration
Lederman, Michael MD	KL2	216-844-8786	Mxl6@case.edu	Immune mechanisms in HIV disease
Levine, Alan PhD	Pharmacology, Cell Biology, Pathology: Cancer Biology and Immunology; Molecular & Microbiology	216-368-0342	alan.levine@case.edu	Immune regulation in the intestine: Role of the mucosal T lymphocyte and epithelial cell
Li, Xiaoxia PhD	Pathology/Immunology	216-445-8706	lix@ccf.org	Signal transduction in innate and adaptive immunity
Liu, Huiping MD, PhD	KL2	216-368-1047	hliu@case.edu	To control metastasis and eliminate the mortality associated with breast cancer and other types of cancer
Loue, Sana PhD, MPH	KL2	216-778-8475	Sxl54@case.edu	HIV and AIDS, bioethics, cross-cultural issues
Maciejewski, Jaroslaw MD, PhD	KL2	216-445-5962	maciejj@ccf.org	bone marrow failure syndromes including aplastic anemia, myelodysplastic syndrome, large granular lymphocyte leukemia, paroxysmal nocturnal hemoglobinuria, pure red cell aplasia and other refractory anemias

Madigan, Elizabeth PhD, RN, FAAN	KL2 & Nursing	216-368-8532	eam13@case.edu	Home health care issues; international health care issues; resource use and patient outcomes of chronically ill; re-hospitalization; health services research, post acute care
Mahoney, Gerald PhD	KL2	216-368-1824	gjm14@case.edu	Developmental intervention, early childhood mental health
Maloni, Judith PhD, RN, FAAN	Nursing	216.368.2912	jam44@case.edu	Pregnancy; Bedrest and High Risk Pregnancy; Effects on Inactivity and Exercise; Perinatal Depression
Marchant, Roger PhD	Biomedical Engineering	216-368-3005	rxm4@case.edu	Biopolymers, bio-synthetic surfactants, polymer surface modification for implants and sensors, protein-surface interactions by AFM
Markowitz, Sanford MD	KL2	216-368-1976	Sanford.markowitz@case.edu	Colon cancer, genetics, familial cancer genes, molecular diagnostics
McComsey, Grace MD	KL2	216-844-3645	grace.mccomsey@case.edu	Pediatric Infectious Diseases and Rheumatology
McCullough, Arthur MD	KL2	216-444-6521	mcculla@ccf.org	biliary disorders, Endoscopy, Eval and management of Hepatobiliary Malignancies, general hepatology, insulin resistance, liver, liver and biliary tract disease, Liver Disease, Liver Transplantation, liver-biliary tract disease, Metabolic Syndrome, non alcoholic fatty liver disease, skeletal muscle loss in liver disease
McIntyre, Cameron PhD	Biomedical Engineering	216-445-3264	mcintyc@ccf.org	Interaction between electric fields and the Nervous System, specifically Deep Brain Stimulation (DBS)
Meropol, Neal MD	KL2	216-844-5220	Neal.Meropol@UHhospitals.org	Medical oncology, expertise as a clinical trialist and health services researcher; biomarker and therapeutics development, research in patient decision making, informed consent and doctor-patient communication, with a focus on clinical trial decision making
Moore, Shirley RN, PhD	KL2 & Nursing	216.368.5978	smm8@case.edu	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
Mosher, John PhD	KL2	216-236-8265	mosher@ieee.org	Biomedical research, magnetoencephalography
Murray,Parick MD	KL2	216-778-8781	Pkm3@case.edu	Physical medicine and rehabilitation
Muschler, George MD	KL2	216-444-5338	muschlg@ccf.org	Adult reconstructive orthopaedic surgery, non-union fractures
Musil, Carol PhD, RN, FAAN	Nursing, KL2	216.368.8775	cmm4@case.edu	Health, Stress, Coping, and Family Functioning of Grandmothers by Caregiver Status; Stress, Mental and Physical Health of Community Dwelling Older Adults by Caregiver Status; Methodological Issues
Nelson, Suchitra PhD	KL2	216-368-3469	suchitra.nelson@case.edu	Oral health epidemiology, health disparities, longitudinal studies, and clinical trials
Peckham, P. Hunter PhD	KL2 & Biomedical Engineering	216-778-3480	pxp2@case.edu	Motor function restoration with neural prostheses, control of orthotic and prosthetic systems, Biomedical engineering / Neural engineering
Rao, Steven PhD	KL2	216-444-1025	Raos2@ccf.org	Functional neuroimaging, Alzheimer's Disease, Parkinson Disease, Multiple Sclerosis, Huntington Disease
Rich, Jeremy MD	Cell Biology, Pathology	216-636-0790	richj@ccf.org	Cancer stem cell biology, developing new cancer therapies
Rimm, Alfred PhD	KL2	216-368-3197	Alfred.rimm@case.edu	Outcomes research / Population databases
Rollins, Andrews PhD	KL2 & Biomedical Engineering	216-368-1917	rollins@case.edu	Application of advanced optics and photonics technologies for in vivo microscopic imaging and characterization of biological tissues
Sajatovic, Martha MD	KL2	216-844-2808	martha.sajatovic@uhhospitals.org	Adult Psychiatry, Bipolar Disorder, Geriatric Psychiatry
Salata, Robert MD	KL2	216-844-6279	Robert.salata@case.edu	Clinical trials of antiviral drugs for treatment of HIV infection including in resource-limited settings, as well as the epidemiology and prevention of HIV in women including the use of topical products
Sauntharajah, Yogen MD	KL2	216-444-8170	saunthy@ccf.org	Pathways by which genetic abnormalities misdirect the epigenetic machinery in carcinogenesis and development of drug-strategies to correct the epigenetic defects

Scacheri, Peter PhD	Genetics, Cancer Biology	216-368-3458	pxs183@case.edu	Genomics to investigate the paradox of tissue-specificity in Multiple Endocrine Neoplasia type I (MEN1)
Schluchter, Mark PhD	KL2	216-844-2391	Mark.schluchter@case.edu	Biostatistics, epidemiology
Sedor, John MD	KL2	216-778-4993	john.sedor@case.edu	Genetic and genomic mechanisms of kidney disease pathogenesis
Sehgal, Ashwini MD	KL2	216-778-7728	axs81@case.edu	Kidney Transplantation, Advance Directives, Mental Impairment
Sessler, Daniel MD	KL2	216-444-4900	sessled@ccf.org	Outcomes research
Spilsbury, James PhD	Kl2	216-368-7559	jcs5@case.edu	Effects of social context on sleep, effects of violence on children, and qualitative research methods
Stange, Kurt MD, PhD	KL2	216-844-3944	Kurt.stange@case.edu	Effectiveness of family practice networks
Stein, Catherine PhD	Epidemiology & Biostatistics	216-368-5631	catherine.stein@case.edu	Genetic susceptibility to tuberculosis, clinical epidemiology of tuberculosis, genetic susceptibility to communication disorders, infectious disease epidemiology
Steinmetz, Nicole PhD	Biomedical Engineering	216-368-5590	nicole.steinmetz@case.edu	Design, development, and testing of novel materials based on plant viral nanoparticles (VNPs) from plants for applications in medicine and materials science
Sun, Jiayang PhD	KL2	216-368-0630	jsun@case.edu	Statistics: imaging, neuroscience, surgery, wound and other medical sciences as well as astronomy, law and environmental science
Super, Dennis MD, PhD	KL2	216-778-1213	Dms7@case.edu	Growth and development of children, diagnostic test
Tang, Wilson MD	KL2	216-444-2121	tangw@ccf.org	Heart failure and transplant cardiologist; adjunct faculty at Dept of Cell Biology at Lerner Research Institute. Mechanistic understanding of cardiomyopathies and heart failure.
Tisch, Daniel PhD, MPH	Epidemiology & Biostatistics	216-368-0875	xdt37@case.edu	Epidemiology of lymphatic filariasis, malaria, and schistosomiasis. Meta-analysis and mathematical modeling of parasite control strategies. Evaluation of integrated parasite control programs
Triolo, Ronald PhD	KL2 & Biomedical Engineering	216-791-3800 x 4138	ronald.triolo@case.edu	Rehabilitation engineering, neural control of motion, lower- extremity neuroprostheses, orthopaedic biomechanics and prosthetic/orthotic design, Implantable neuroprostheses for spinal cord injury
Vince, Geoff PhD	KL2	216-445-6580	vinceg@ccf.org	Atherosclerosis, vascular imaging, image and signal processing.
von Recum, Horst PhD	Biomedical Engineering	216-368-5513	hav1@case.edu	Creation of novel polymeric platforms for drug delivery and tissue engineering
Voss, Joachim PhD, ACRN, FAAN	KL2 & Nursing	216-368-5979	jgv20@case.edu	Treatment approaches for fatigue and mitochondrial dysfunction in patients with HIV and cancer, sleep management
Votruba, Mark PhD	KL2	216-368-4296	mxv27@case.edu	Health economics, medical decision making
Webel, Allison PhD, RN	KL2 & Nursing	216-368-3939	allison.webel@case.edu	HIV self management interventions and the social and behavioral determinants of co-morbid chronic disease in people living with HIV
Wiedemann, Herbert MD	KL2	216-444-8335	wiedemh@ccf.org	intensive care (including adult respiratory distress syndrome and sepsis), exercise testing, lung cancer, interstitial lung disease, fiberoptic bronchoscopy, pleural effusions
Wilson, David PhD	Biomedical Engineering	216-368-4099	dlw@case.edu	Biomedical image analysis and visualization of multiple modalities (e.g., OCT, MRI, CT) in cardiology, cancer, stem cells, and theranostics; microscopic, 50+ GB whole mouse cryo-imaging with single cell sensitivity
Winkelman, Chris PhD, RN	Nursing	216.368.0700	cxw26@case.edu	Positioning and Activity in Critically Ill Patients; Cytokine Response to Mobilization of the Critically Ill
Youngner, Stuart MD	KL2	216-368-6196	sxy2@case.edu	Chairman, Department of Bioethics, School of Medicine, CASE
Yu, Xin ScD	Biomedical Engineering	216-368-3918	xin.yu@case.edu	Cardiovascular physiology; magnetic resonance imaging and spectroscopy; characterization of the structure-function and energy–function relationships in normal and diseased hearts; small animal imaging and spectroscopy

Zauszniewski, Jaclene PhD, RN-BC, FAAN	KL2 & Nursing	216-368-3612	jaz@case.edu	Maintaining health and functioning of elders; preventing and treating depression; instrument development and psychometrics; informal caregiving for persons with behavioral problems; family caregivers of persons with serious mental illness, Mental health nursing
Zhang, Amy PhD	Nursing	216.368.0968	axz16@case.edu	Psychosocial Behavioral Studies of Patients with Cancer: Depression in Cancer Patients; Quality of Life in Cancer Patients – Intervention to Urinary Incontinence of Prostate Cancer Survivors; Cancer Disparities
Zhu, Xiaofeng PhD	Epidemiology & Biostatistics	216-368-0201	xxz10@case.edu	Genetic mapping studies of hypertension, obesity; development of statistical methods for association studies avoiding the effect of population stratification; admixture mapping