

MSSRP Mentor List - Summer 2021

The first stage of the MSSRP application process is to research a few mentors whose work interests you, and to ask Rose Polgar (rmp154@case.edu) to help you get in contact with those mentors.

1. Please use the information below as a jumping-off point for your own research on mentors you may want to work with.
2. You should utilize the CWRU, UH, and/or Cleveland Clinic websites to get more details of what each mentor is researching.
3. You should utilize PubMed and browse the list of publications for mentors you are interested in working with.
4. We encourage you to consider basic and translational research in addition to clinical research.

Mentors by category:

GROUP 1: <u>Digestive Diseases</u>	GROUP 2: <u>Liver Diseases</u>	GROUP 3: <u>Diabetes & Metabolic Diseases</u>	GROUP 4: <u>Kidney Diseases</u>
Derek Abbott, MD PhD	J. Mark Brown, PhD	David Buchner, PhD	Walter Boron, MD, PhD
Fabio Cominelli, MD PhD	Henri Brunengraber, MD PhD	Atul Chopra, MD*	Leslie Bruggeman, PhD*
Wendy Goodman, PhD*	Srinivasan Dasarathy, MD	Darcy Freedman, PhD	Katherine Dell, MD
Andrei Ivanov, PhD	Maria Hatzoglou, PhD	Rose Gubitosi-Klug, MD PhD	Christopher Flask, PhD
Jeanette Messer, DVM PhD*	Feng Lin, PhD	Grace McComsey, MD	Stanley Hazen, MD, PhD
Theresa Pizarro, PhD	Takuya Sakaguchi, MD		John O'Toole, MD
Florian Rieder, MD PhD*			Mahboob Rahman, MD
Rodriguez-Palacios, PhD DVM*			Jeffrey Schelling, MD*
Vinay Varadan, PhD*			John Sedor, MD
			Jonathan Stamler, MD

GROUP 5: <u>GI & Liver Tumorigenesis</u>	GROUP 6: <u>Inflammation/Infection</u>
Amitabh Chak, MD	Donald Anthony, Jr, MD, PhD
Gregory Cooper, MD MPH	Robert Bonomo, MD
Amar Desai, PhD*	Sahera Dirajlal-Fargo, MS DO*
Kishore Guda, PhD	Curtis Donskey, MD
Zhenghong Lee, MD	Craig Hodges, PhD
Anant Madabhushi, PhD	Alan Levine, PhD
Sanford Markowitz, MD PhD	Laura Nagy, PhD
Gordon McLennan, MD*	Parameswaran Ramakrishnan, PhD
Zhenghe Wang, PhD	Carlos Subauste, MD
Lan Zhou, MD, PhD*	

* Junior faculty mentors, paired with a senior mentor with a strong-track record of mentorship to ensure the highest level of training.

Mentor research interests:

TABLE B. Faculty Research & Case MSSRP T35 Mentoring
DEREK ABBOTT, MD, PhD , Professor of Pathology, CWRU SoM; MSTP T32 Program Director; Research: Mechanisms of NOD2 activation Crohn's disease (CD)
DONALD ANTHONY, Jr, MD, PhD , Associate Professor of Medicine (Infectious Diseases & HIV) & Pathology, CWRU SoM; HIV T32 Program Director; Research: Immune cell function during hepatitis C virus infection;
ROBERT BONOMO, MD , Professor of Medicine, Pharmacology, Molecular Biology & Microbiology, CWRU SoM; Research: Genetic determinants of β -lactamases
WALTER BORON, MD, PhD , David N. & Inez Myers/Antonio Scarpa Professor & Department Chair of Physiology & Biophysics, CWRU SoM; Research: RTPT- δ in acid-base disturbances in renal proximal tubes

TABLE B. Faculty Research & Case MSSRP T35 Mentoring
J. MARK BROWN , Associate Staff Scientist, Cardiovascular Disease & Metabolic Sciences, Cleveland Clinic LRI, Assistant Professor of Molecular Medicine, CCLCM-CWRU; Research: Gut bacterial metabolite TMAO in host stress response to insulin resistance
LESLIE BRUGGEMAN, PhD , Professor of Medicine (Nephrology & Hypertension), CWRU SoM; Research: Molecular and cellular biology of chronic kidney diseases
HENRI BRUNENGRABER, MD, PhD , Mount Sinai Auxiliary Commemorative Professor of Nutrition & Biochemistry; Research: Metabolic regulation; artificial nutrients; liver metabolism; alcoholism markers; mass spectrometry; metabolomics
DAVID BUCHNER, PhD , Assistant Professor of Genetics & Biochemistry, CWRU SoM; Research: Genetics and pathophysiology of obesity and diabetes
AMITBAH CHAK, MD , Professor of Medicine (GI & Liver Diseases) & Oncology, CWRU SoM; Research: Barrett's esophagus (BE) & esophageal adenocarcinoma, novel endoscopic imaging techniques
ATUL CHOPRA, MD, PhD , Assistant Professor of Medicine (Cardiology), CWRU SoM; Research: Asprosin neutralization as an anti-obesity treatment
FABIO COMINELLI, MD, PhD , Hermann Menges, Jr. Professor of Medicine & Pathology, Chief, Division of GI & Liver Diseases, CWRU SoM; Director, Case MSSRP T35; Co-Director, Digestive Diseases T32 (NIDDK); Research: Role of cytokines & gut microbiota in IBD
GREGORY COOPER, MD , Professor of Medicine (GI & Liver Diseases); Research: Screening & surveillance for colorectal cancer (CRC)
SRINIVASAN DASARATHY , Staff Scientist, Department of Inflammation & Immunity, Cleveland Clinic LRI; Professor of Molecular Medicine, CCLCM-CWRU; Research: Mechanisms of sarcopenia in cirrhosis; clinical research in non-alcoholic steatohepatitis
KATHERINE DELL, MD , Staff Scientist, Pediatric Nephrology, Cleveland Clinic Pediatric Institute; Professor of Pediatrics (Nephrology), CCLCM-CWRU; Research: Imaging of ARPKD in kidney disease
AMAR DESAI, PhD , Assistant Professor, Case Comprehensive Cancer Center, CWRU SoM; Research: 15-PGDH in improving bone marrow transplantation
SAHERA DIRAJLAL-FARGO, MS, DO , Assistant Professor, Department of Pediatrics, CWRU SoM; Research: Pediatric HIV complications, inflammation & immune activation
CURTIS DONSKEY, MD , Professor of Medicine (Infectious Diseases & HIV), CWRU SoM; Research: Mechanisms used by normal intestinal microflora to inhibit colonization by nosocomial pathogens
CHRISTOPHER FLASK, PhD , Assistant Professor of Radiology, Pediatrics & Biomedical Engineering, CWRU SoM and School of Engineering; Research: Imaging of ARPKD in kidney disease
DARCY FREEDMAN, PhD, MPH , Associate Professor of Epidemiology & Biostatistics, CWRU SoM; Research: Nutritional interventions & obesity
WENDY GOODMAN, PhD , Instructor of Pathology, CWRU SoM; Research: Regulatory T-cells in CD
ROSE GUBITOSI-KLUG, MD, PhD , Professor of Pediatrics (Endocrinology) & Associate Professor of Pharmacology, CWRU SoM; Research: Epidemiology of long-term type I diabetes
KISHORE GUDA, PhD , Associate Professor of Medicine, CWRU SoM; Research: Genetics of colon & esophageal cancer
MARIA HATZOGLU, PhD , Professor of Nutrition & Pharmacology, CWRU SoM; Research: Molecular mechanisms regulating gene expression during nutrient stress

TABLE B. Faculty Research & Case MSSRP T35 Mentoring
STANLEY HAZEN, MD, PhD , Van Bleeksma Chair of Vascular Cell Biology & Artherosclerosis, Cleveland Clinic LRI; Professor of Molecular Medicine, CCLCM-CWRU; Research: Diet-induced gut microbiota-mediated pathways & chronic kidney disease
CRAIG HODGES, PhD , Associate Professor of Genetics & Genome Sciences; Research: CFTR gene function & mouse models of cystic fibrosis
ANDREI IVANOV, PhD , Staff Scientist, Department of Inflammation & Immunity, Cleveland Clinic LRI; Professor of Molecular Medicine, CCLCM-CWRU; Research: Actomyosin cytoskeleton & intestinal barrier dysfunction in IBD
MUKESH JAIN, MD , Professor of Medicine, Physiology, & Biophysics, CWRU SoM; Research: Kruppel-like factors in lipid metabolism
ZHENGHONG LEE, PhD , Professor of Radiology & Associate Professor of Biomedical Engineering, CWRU SoM; Research: Imaging technologies for liver cancer proliferation
FENG LIN, PhD , Staff Scientist, Department of Inflammation & Immunity, Cleveland Clinic LRI; Professor of Molecular Medicine, CCLCM-CWRU; Research: Complement activation to improve diabetes
ANANT MADABUSHI, PhD , F. Alex Nason Professor II of Biomedical Engineering, Professor of Pathology, Radiation Oncology, Radiology & Urology, CWRU SoM; Research: Quantitative image analysis & multi-modal correlation of large data sets for disease diagnostics and prognostics of GI cancers
SANFORD MARKOWITZ, MD, PhD , Frances Wragg Ingalls Professor of Cancer Genetics, Genetics & Genome Sciences, & Molecular Biology & Microbiology, CWRU SoM; Research: Immunogenetics of CRC
GRACE McCOMSEY, MD , Professor of Pediatrics & Division Chief of Pediatric Infectious Diseases/Rheumatology, CWRU SoM; Research: Gut integrity markers after HIV infection & metabolic complications
GORDON McLENNAN, MD , Professor of Pathology & Urology, Division Chief of Anatomic Pathology, CWRU SoM; Research: Genitourinary pathology
JEANNETTE MESSER, DVM, PhD , Assistant Staff Scientist, Department of Inflammation & Immunity, Cleveland Clinic LRI; Adjunct Assistant Professor of Molecular Medicine, CCLCM-CWRU; Research: HMGB1 in IBD
LAURA E. NAGY, PhD , Staff Scientist, Department of Inflammation & Immunity, Cleveland Clinic LRI; Professor of Physiology & Biophysics, CWRU; Professor of Molecular Medicine, CCLCM-CWRU; Research: Alcohol-induced chronic hepatitis & diabetes
JOHN O'TOOLE, MD , Staff Scientist, Department of Inflammation & Immunity, Cleveland Clinic LRI; Associate Professor of Molecular Medicine, CCLCM-CWRU & CWRU SoM; Research: Genetics of human kidney disease
THERESA PIZARRO, PhD , Professor of Pathology & Medicine, CWRU; Case MSSRP T35 Co-Director; Research: Mucosal immunity
MAHBOOB RAHMAN, MD , Professor of Medicine (Nephrology & Hypertension), CWRU SoM; Research: Predictors of chronic renal insufficiency progression
PARAMESWARAN RAMKRISHNAN, PhD , Assistant Professor of Pathology & Biochemistry, CWRU SoM; Research: Signal transduction in autoimmunity & immunometabolism in type-1 diabetes & inflammation-induced colon cancer; T35 Trainees: Dr. Ramakrishnan was provisional mentor at the request of Angela Lui (2019), who investigated the role of NF- κ B c-Rel and OGlcNAcylation in autoimmune diabetes, and is now a T35 secondary faculty mentor.
FLORIAN RIEDER, MD, PhD , Assistant Professor (Medicine), CCLCM/CWRU SoM; Research: Gut Microbiome-induced Intestinal Fibrosis
ALEXANDER RODRIGUEZ-PALACIOS, PhD, DVM , Assistant Professor of Medicine (GI & Liver Diseases), CWRU SoM; Research: Mouse models of intestinal inflammation

TABLE B. Faculty Research & Case MSSRP T35 Mentoring
TAKUYA SAKAGUCHI, PhD , Associate Staff, Department of Inflammation & Immunity, Cleveland Clinic LRI; Assistant Professor of Molecular Medicine, CCLCM-CWRU; Research: Biliary system formation; nonalcoholic steatohepatitis using a zebrafish model
JEFFREY SCHELLING, MD , Professor of Medicine (Nephrology & Hypertension), CWRU SoM; Research: Mechanisms of chronic kidney disease in diabetes
JOHN SEDOR, MD , Staff Scientist, Department of Inflammation & Immunity, Cleveland Clinic LRI; Professor of Physiology & Biophysics, CWRU SoM; Research: Nephropathy susceptibility genes and kidney disease
JONATHAN STAMLER, MD , Robert S. and Sylvia K. Reitman Family Foundation Distinguished Chair and Professor of Medicine & Professor of Biochemistry, CWRU SoM; Research: S-nitrosylation in renal function
CARLOS SUBAUSTE, MD, PhD , Professor of Medicine (Infectious Diseases & HIV Medicine), Ophthalmology & Pathology, CWRU SoM; Research: CD40 in immune responses to pathogens; diabetic inflammation; uses transgenic diabetic mouse
VINAY VARADAN, MD , Assistant Professor of General Medical Sciences (Oncology), CWRU SoM; Research: Integrative analysis of large-scale molecular profiling datasets to identify novel biomarkers & therapeutic targets
ZHENGHE WANG, PhD , Dale H. Cowan M.D. & Ruth Goodman Blum Professor of Cancer Research & Professor of Genetics & Genome Sciences, CWRU SoM; Research: Metabolic programming in CRC
LAN ZHOU, MD, PhD , Associate Professor of Pathology, CWRU SoM; Research: HES-1 in inflammation-induced CRC