

Department of Pathology and Laboratory Medicine, Clinical Pathology

CO-DIRECTORS

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KEY CONTACTS

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DEPARTMENT INQUIRIES

Please call 216-844-LABS (5227).

Clinical Pathology

Clinical Chemistry and Immunology

Co-Leaders: Christine Schmotzer, MD, and Jamie Noguez, PhD

Distinguishing Features

- Subspecialty oversight with access to expert consultative services, including routine and complex testing for oncology, infectious diseases, allergy and autoimmune conditions, and endocrine biomarkers
- Newly installed automated high-throughput processing system with significant turnaround time advantages
- Therapeutic drug monitoring assays supporting transplant, cardiac and infectious disease therapeutics

Complex Special Coagulation Testing

Leader: Katharine Downes, MD

Distinguishing Features

- Offers manual and automated specialized testing for evaluation, diagnosis and management of bleeding and thrombosis disorders in neonatal, pediatric and adult populations
- Expert consultation services and interpretive reporting performed seven days a week by pathologists
- Technical expertise in specialty coagulation testing with dedicated laboratory technical oversight

Hematological Diseases

Co-Leaders: Howard Meyerson, MD; Linda Sandhaus, MD; Erika Moore, MD; Rose Beck, MD, PhD

Distinguishing Features

- Flow cytometry expertise for benign and malignant hematology disorders
- Morphologic assessment of bone marrow and lymph node pathologies
- Expert specimen triaging and integration of molecular testing for diagnosis and ongoing patient management

Microbiology

Co-Leaders: Michael Jacobs, MD, and Daniel Rhodes, MD

Distinguishing Features

- Newly installed automated high-throughput microbiology processing system with significant turnaround time advantages
- State-of-the-art molecular assays for stool and respiratory pathogens
- MALDI-TOF mass spectrometer technology for rapid identification of infectious isolates

Center for Inherited Disorders of Energy Metabolism

Co-Leaders: Shawn McCandless, MD; Jirair Bedoyan, MD; Shulin Zhang, PhD

Distinguishing Features

- Laboratories focus on disorders of mitochondrial function, including defects of pyruvate metabolism, fatty acid oxidation, the Krebs cycle and the electron transport chain
- Clinical conditions associated with these disorders include major disabilities affecting the central nervous system, skeletal muscle, heart and other organs
- Integrates serologic and enzyme-based assays with next-generation sequencing results
- Provides unique support services to specialized pediatric genetics consultative service

Therapeutic Apheresis Service

Leader: Katharine Downes, MD

Distinguishing Features

- Expert consultation services and oversight by attending physicians subspecialty boarded in Blood Banking/Transfusion Medicine, with evaluation for more than 90 conditions treated with apheresis procedures
- Performance of all specialized apheresis procedures available, including therapeutic plasma exchange, red cell exchange, platelet depletion and white cell depletion, in pediatric and adult populations
- Technical expertise in apheresis procedure performance and patient management by apheresis nurses

About UH Cleveland Medical Center

At the core of University Hospitals' \$4 billion health system is UH Cleveland Medical Center, ranked among America's best hospitals by U.S. News & World Report. UH Cleveland Medical Center is home to some of the most prestigious clinical and research programs in the nation, including cancer, pediatrics, women's health, orthopedics, radiology, neuroscience, cardiology and cardiovascular surgery, digestive health, transplantation and genetics. Its main campus includes UH Rainbow Babies & Children's Hospital, ranked among the top children's hospitals in the nation; UH MacDonald Women's Hospital, Ohio's only hospital for women; and UH Seidman Cancer Center, part of the NCI-designated Case Comprehensive Cancer Center at Case Western Reserve University.