Electron Microscopy Laboratory

The laboratory is a full-service facility that provides technical and professional support for patient care and research studies that require transmission and scanning electron microscopy.

Fungus Testing Laboratory

Fungal species identification by phenotypic characteristics combined with DNA sequencing analysis or MALDI-TOF MS, antifungal susceptibility testing of yeasts and molds, measurement of antifungal drug levels in biological fluids, clinical trials, and preclinical drug development research.

Flow Cytometry Laboratory

Immunophenotypic analysis by multiparameter flow cytometry which is useful in the diagnostic/classification of acute leukemia, non-Hodgkin’s lymphoma and the detection of residual leukemia/lymphoma following therapy. Also, panels for detection of Paroxysmal Nocturnal Hemoglobinuria (PNH) clones and detection of hemoglobin F in feto-maternal hemorrhage are offered.

Oral and Maxillofacial Pathology Laboratory

We offer a comprehensive, computerized service that processes biopsy and cytology specimens from the oral cavity and head and neck region. The laboratory is staffed by two pathologist board certified by the American Board of Oral and Maxillofacial Pathology.

Consultation Services

We provide consultation services in surgical pathology, muscle pathology, neuropathology, hematomatopathology, gynecologic pathology, oral and maxillofacial pathology, and renal pathology. Our board-certified pathologists are recognized leaders in the field, providing clinical consultations to referring providers.
Consultation Services
Thin Prep Pap Test

Vital for clinical management
Chromosome Analysis – AML/MDS
Chlamydia trachomatis and ALL
Project consultation
Fungal Identification
COVID-19 (SARS-CoV-2)/Flu
Factor V Leiden (p.R506Q)
Platelet whole mount
Renal Pathology Services
Optimization of testing when
Chromosome Analysis –
Molecular Identification of PML::RARA translocation
Biopsy Service - oral mucosal
Heart Biopsy
Nerve Biopsy
Proxysmal Nocturnal
T-cell Lymphoma
BioFire Gastrointestinal
BCR::ABL1 p210
Immunohistochemical
BCL2 translocation major
Hemochromatosis (HFE) 2
Malignant and non-malignant
B-cell Lymphoma
BCR::ABL1 p210, p190, and
Vital for clinical management
Chromosome Analysis –
Focus scoring for Sjögren
Chromosome Analysis –
IGK clonality detection
Tech only Services- Stain
MPD
Chromosomal Microarray (Cytoscan
Electron Backscatter
Immunophenotyping for
COVID-19 (SARS-COV-2)
Muscle Enzyme and Nerve
Chromosome Analysis –
Chromosome Analysis –
Biological and non-biological
Immunofluorescence Studies
Routine Histology
Special Stains
Tech only Services-Stain
Malignant and non-malignant
Bone marrow aspirate
Bone marrow biopsy
Gene expression studies
Molecular Cytogenetics Laboratory
Clinical and molecular cytogenetics lab
Chromosome Analysis
Chromosome Analysis
Chromosome Analysis
Chromosome Analysis
Chromosome Analysis
Chromosome Analysis
Chromosome Analysis –
Chromosome Analysis –
Chromosome Analysis –
Chromosome Analysis
Chromosome Analysis –
Chromosome Analysis –
Chromosome Analysis –
Chromosome Analysis –
Chromosome Analysis –
Cytogenetic Speciality Testing
Peripheral Blood Chromosome Analysis on Newborns with Reflex to Microarray Studies
A preliminary report within 24 hours
Final result in 48 hours +/-90% of cases
Vital for clinical management decisions in NICU – eliminate other costly testing in cases with trisomies (i.e., microarray, etc.)
PLASMA CELL ISOLATION FOR FISH/ CD-138 NEGATIVE FRACTION FOR CHROMOSOME ANALYSIS
Isolation of plasma cells - accurate FISH results
Optimization of testing when sample volume is inadequate
A board certified clinical cytogeneticist is available to provide assistance with utilization of tests, interpretation for all cases and discussion of abnormal results with the referring physician. Final reports are sent to all referring physicians, hospitals and laboratories by secure email or facsimile. Preliminary reports are transmitted upon request and photographs of all karyotypes and FISH results are available upon request.
Electron Microscopy Laboratory
Clinical Transmission Electron Microscopy
Cilia Biopsy
Heart Biopsy
Malignant and nonmalignant tissue evaluations
Muscle Biopsy

RESEARCH TRANSMISSION ELECTRON MICROSCOPY
Biological and non-biological samples
Equipment training
Negative stain whole mount
Project consultation

We also have the option to offer local courier services for high-volume and exotic testing.

Infectious Disease

BioFire Gastrointestinal Pathogen Panel: 22 pathogens
BioFire Respiratory Pathogen Panel, nasopharyngeal swab: 22 respiratory pathogens including COVID-19 (SARS-CoV-2)
Chlamydia trachomatis and Neisseria gonorrhoea testing by transcript-mediated amplification (TMA)
COVID-19 (SARS-CoV-2) nucleic acid amplification test (NAAT), nasopharyngeal swab
Human papilloma virus (HPV) nucleic acid amplification test (NAAT)
Molecular identification of fungi (order through the FUNGUS Testing Laboratory)

Oncoology

BCL2 translocation major breakpoint by real-time PCR
BCR:ABL1 p190 quantitation by real-time PCR
BCR:ABL1 p120 quantitation by real-time PCR with report on international scale (IS)
BCR:ABL1 p130, p190, and PML:RARa STAT testing (2 business day TAT)
IGH clonality detection by PCR and capillary electrophoresis

Inherited Disease

Factor V Leiden (p.R506Q) mutation by real-time PCR
Hemochromatosis (HFE) 2 mutations by real-time PCR

Infectious Disease

BioFire Gastrointestinal Pathogen Panel: 22 pathogens
BioFire Respiratory Pathogen Panel, nasopharyngeal swab: 22 respiratory pathogens including COVID-19 (SARS-CoV-2)
Chlamydia trachomatis and Neisseria gonorrhoea testing by transcript-mediated amplification (TMA)
COVID-19 (SARS-CoV-2) nucleic acid amplification test (NAAT), nasopharyngeal swab
Human papilloma virus (HPV) nucleic acid amplification test (NAAT)
Molecular identification of fungi (order through the FUNGUS Testing Laboratory)

Genetic Testing

Chromosome Analysis – AMNIOTIC FLUID
Chromosome Analysis – BLOOD
Chromosome Analysis – Products of conception
Chromosome Analysis – Skin
Chromosome Analysis – BONE MARROW
Chromosome Analysis – LEUKEMIC BLOOD
Chromosome Analysis – Solid Tumor

Fish - Panels*

ALL
AML/ MDS
B-cell Lymphoma
CLL

Probes used on panels may be ordered as single tests.

High-Resolution Microarray

Chromosomal Microarray (CytoScan® Dx Assay)
Chromosomal Microarray (CytoScan® HD Assay)

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Cilia Biopsy
Heart Biopsy
Malignant and nonmalignant tissue evaluations
Muscle Biopsy

Research Transmission Electron Microscopy
Biological and non-biological samples
Equipment training
Negative stain whole mount
Project consultation

Research Scanning Electron Microscopy
Biological and non-biological samples
Equipment training
Project consultation

Fungus Testing Laboratory
Antifungal Drug Levels
Fungal Identification
Molecular Identification of Fungi

Flow Cytometry Laboratory
Hemoglobin F Analysis (HbF)
Immunophenotyping for Leukemias and Lymphomas
Proynosomal Nocturnal Hemoglobinuria Testing (PNH)

Oral and Maxillofacial Pathology
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Clinical and radiographic consultation services
Focus scoring for Sjogren syndrome
Immunofluorescence studies

Histopathology Laboratory
Consultation Services
Immunofluorescence Studies
Immunohistochemical Staining
Insitu Hybridization Stains
Muscle Enzyme and Nerve Studies

Clinical and Molecular Cytogenetics Laboratory

Chromosome Analysis – SKIN
Chromosome Analysis – LEUKEMIC BLOOD
Chromosome Analysis – Solid Tumor

FISH - Panels*

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AML/ MDS
B-cell Lymphoma
CLL

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High-Resolution Microarray

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Chromosomal Microarray (CytoScan® HD Assay)