

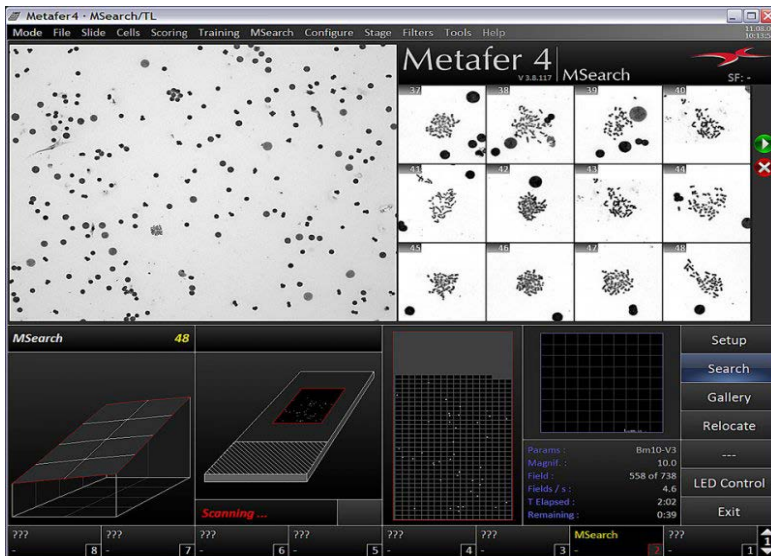
CYTOGENETICS LABORATORY

CIBR: Center for Innovative Biomedical Resources

CORE INSTRUMENTATION

Automatic Interphase and Metaphase Finder

Metasystems Metafer Slide Scanner and Ikaros/Isis Analysis Software are powerful tools.



- Automatic export of high resolution images for analysis

Major equipment available:

- Metasystems Metafer Slide Scanner and Ikaros/ Isis Analysis Software
- Nikon TMS microscope w/Fluorescence
- Olympus AX-70 microscope
- Olympus BHSM microscope
- Olympus BX-41 microscope
- Olympus BX-41 w/Fluorescence
- Zeiss Axiophot microscope
- Zeiss Axioskop microscope

MISSION

Our laboratory offers cytogenetic and molecular genomic diagnosis for both constitutional and acquired chromosome abnormalities. We focus on the detection and characterization of subtle chromosome abnormalities in hematological malignancies/ stem cells, as well as roles of telomere biology in cancer and human aging.

CORE SERVICES

The Cytogenetics Laboratory is a CLIA-certified and CAP accredited facility that offers comprehensive cytogenetic diagnosis for both constitutional and acquired chromosome abnormalities. It provides conventional karyotype analysis and fluorescence *in situ* hybridization (FISH) studies for the detection and characterization of chromosome abnormalities in clinical specimens and in established cell lines. The Cytogenetics Laboratory includes an American Board of Medical Genetics-certified clinical cytogeneticist/clinical molecular geneticist, highly knowledgeable laboratory supervisors, and well-experienced staff.

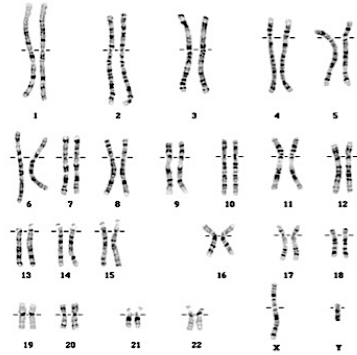
SERVICES OFFERED

- Chromosome Studies on multiple sample types including peripheral blood, bone marrow, fibroblasts and solid tissues (Karyotype).
- FISH testing
- Microarray analyses (Data analyses)

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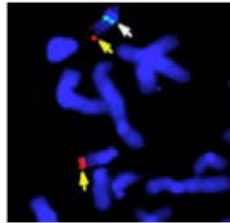
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Chromosome Studies (Karyotype)

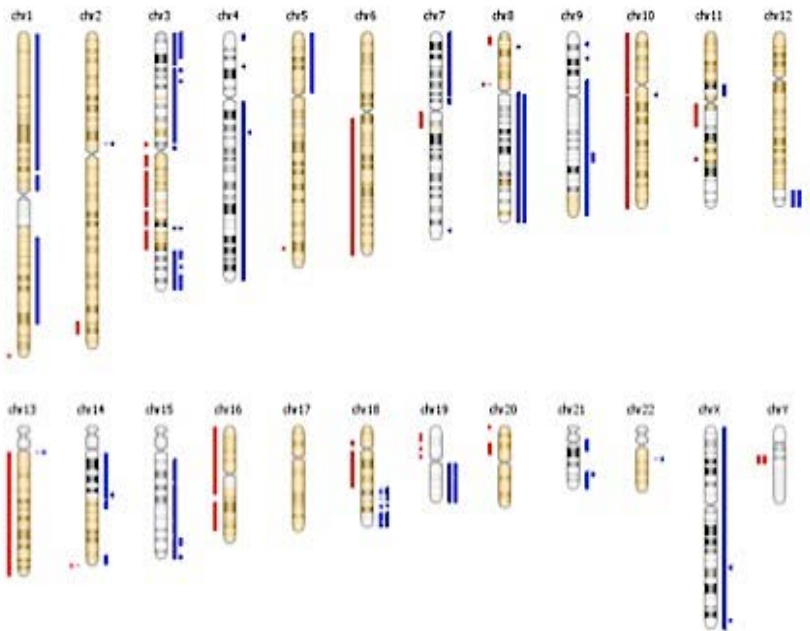


FISH Testing

- Whole chromosome painting
- Centromere probes
- Subtelomere probes
- Microdeletion probes
- Cancer probes
- Other locus-specific probes



Cytogenomic Microarray Analyses



Cytogenomic microarray analyses of a solid tumor revealed duplications (in blue lines), deletions (in red line) and CN-LOH regions (yellow in cytobands)

CONTACT



Ying Zou, MD, PhD, FACMG
Associate Professor
Department of Pathology
Director, CytoGenetics Laboratory
University of Maryland Pathology
Associates, P.A.

yzou@som.umaryland.edu

Elizabeth Waters, Supervisor
410-706-4063
ewaters@som.umaryland.edu

Melody Butler, Supervisor
410-706-2809
mbutler@som.umaryland.edu

LOCATION

Room 7-049, Bressler Research Building
655 West Baltimore Street
Baltimore, MD 21201
410-706-2809

Web Address

<http://medschool.umaryland.edu/cibr/Cytogenetics>