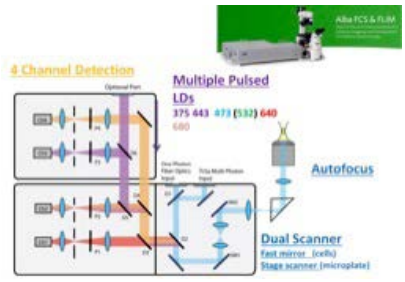
CENTER FOR FLUORESCENCE SPECTROSCOPY

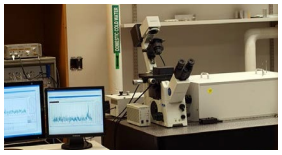
CIBR: Center for Innovative Biomedical Resources

CORE INSTRUMENTATION

Fluorescence Lifetime Imaging Microscope
State-of-the-art imaging system, Alba V (FLIM and FCS) is designed for cellular imaging and bioassay readout and quantitative analysis. The system is equipped with multiple lasers, multiple channels, dual scanners and dual lifetime imaging capability (TD and FD).

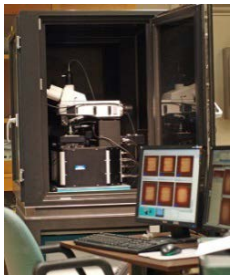


Single Molecule Fluorescence Microscope
- Multiple lasers
- Lifetime capability
- FCS



Time-Resolved Fluorescence Spectrometer
- Super Continuum Laser
- Automated system

Atomic Force Microscope and NSOM WITec alpha300S
- Contact Mode
- AC Mode
- Confocal capability



MISSION
The Center for Fluorescence Spectroscopy (CFS) provides state-of-the-art fluorescence instrumentation for studies of structure, function, and dynamics of biological macromolecules. CFS also provides the expertise on applications of fluorescence for bioassays and cellular imaging.

CORE SERVICES
The CFS makes available state-of-the art spectroscopic instrumentation and techniques for fluorometric bioassay development and cellular imaging.

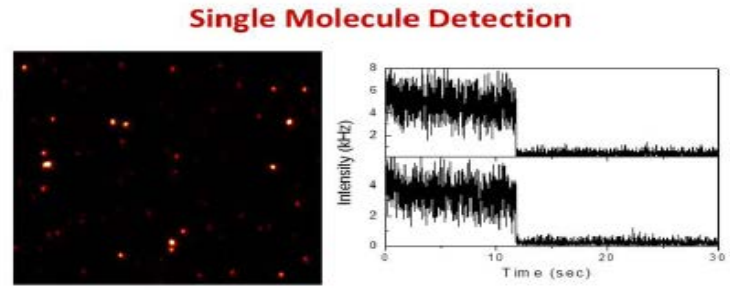
Techniques include:
- Fluorescence energy transfer (FRET)
- Fluorescence polarization (FP)
- Fluorescence correlation spectroscopy (FCS)
- Single molecule detection (SMD)
- Time-resolved spectroscopy
- Fluorescence lifetime imaging microscopy (FLIM)

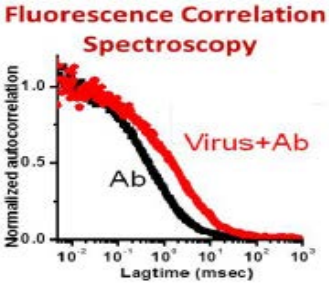
Facility also provides technical expertise on all aspects of fluorescence techniques used in basic science and biological/medical applications.

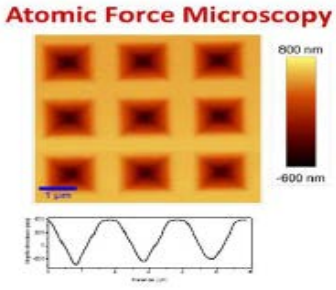
Cell imaging and studies of biomolecule interactions of assemble molecules and on single molecule basis are available with fluorescence microscopies.

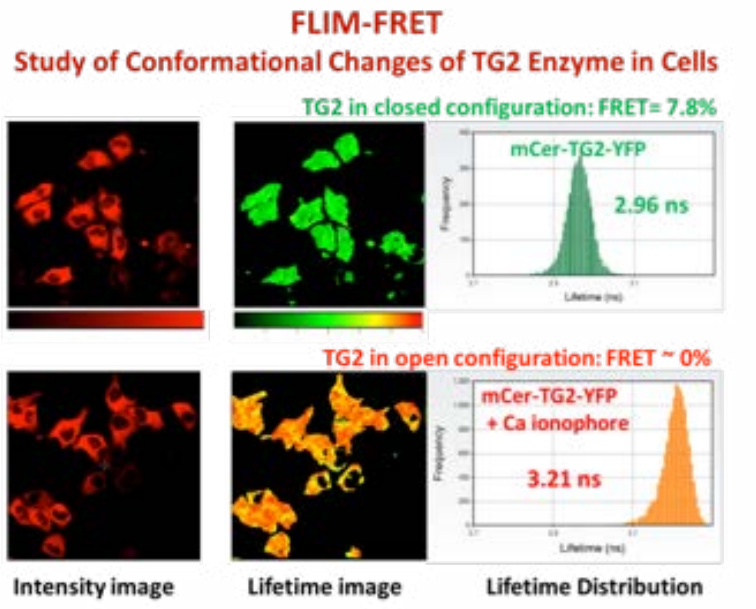
CENTER FOR FLUORESCENCE SPECTROSCOPY

CIBR: Center for Innovative Biomedical Resources





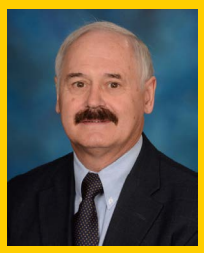




CONTACT

Joseph R. Lakowicz, PhD
Director
jlakowicz@som.umaryland.edu

Krishanu Ray, PhD
Associate Director
kray@som.umaryland.edu



Henryk Szmacinski, PhD
Associate Director
hszmacinski@som.umaryland.edu

LOCATION

Room N-241, Institute of Human Virology
725 West Lombard Street
Baltimore, MD 21201
410-706-7500
Fax: 410-706-8408

Web Address
http://medschool.umaryland.edu/CIBR/fs