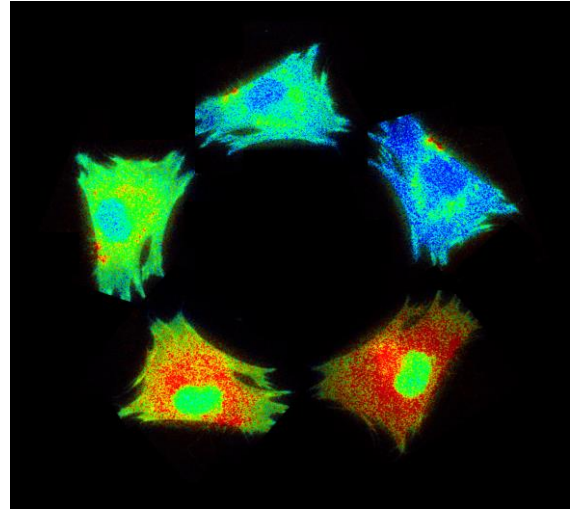


# FRET Live-Cell Imaging and Quantitation Summer Workshop, 2015



## Objective

This workshop will introduce advanced quantitative fluorescence microscopy techniques used for imaging, manipulating, and quantifying the spatiotemporal characteristics of molecular events in live cells. The tentative topics will cover the fundamentals of optics, Forster Resonance Energy Transfer (FRET) imaging live cells, and quantitative image analysis using MATLAB and Fluocell. A laboratory component will be integrated into the workshop. Attendants will observe live-cell imaging experiments with FRET, FRAP microscopy and image processing and analysis.

## Time & Location

Science and Engineering Research Facility (SERF) Conference room 232,  
August 3<sup>rd</sup> Monday, 2015  
8:00am – 5pm.

## Instructors

Michael Berns, Kathy Shaoying Lu, Nathan Shaner, Phil Tsai, Peter Yingxiao Wang

For more information and for program please visit our website at:

[iem.ucsd.edu/events/upcoming-events](http://iem.ucsd.edu/events/upcoming-events)

For more information on this workshop, please contact Shaoying (Kathy) Lu via email at [kalu@ucsd.edu](mailto:kalu@ucsd.edu)

Graduate students and postdoctoral fellows, particularly minorities and women, are encouraged to participate in the workshop.



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Organized by the **Institute of Engineering in Medicine**,  
**Department of Bioengineering**, Quantitative Biology Program, Center of  
Computational Mathematics, Laboratory of Molecular Engineering for Single Cell  
Imaging and Reprogramming, **UCSD**  
Sponsors: **NSF/NIH Math/Bio Initiative**  
**Cell E&G**