Harvard Center for Biological Imaging
Fall 2019
Lunch and Learn Lecture Series
please register on Eventbrite to attend!

Sept 25th
12:00PM

Raman spectroscopy for biological applications

Raman spectroscopy is the inelastic scatting of light that allows for label free chemical imaging of a sample. It has had challenges being widely adopted for biological applications due to the common issue of autofluorescence in biological samples and a seemingly overwhelming amount of information contained in a Raman data set. Come hear from **Arthur McClelland** about recent approaches to solving both these challenges.

Oct 16th
12:00PM

Gain without pain

Erin Diel will talk about optimizing gain settings on your favorite detectors, such as cameras, PMTs and the ZEISS Airyscan.

Oct 30th
12:00PM

The other -fraction

Although most recent work in microscopy has focused on circumventing the laws of diffraction to improve resolution in the light microscope, the effects of refraction are often forgotten. **Doug Richardson** will describe where refraction commonly occurs in the light microscope and explain how it contributes to spherical aberration in images.

Nov 6th
12:00PM

Image analysis using CellProfiler

Beth Cimini leads the image assay development team within the Imaging Platform of the Broad Institute. She will speak about the capabilities of creating image analysis workflows in the open source software CellProfiler.

Nov 20th
12:00PM

Intellesis: Automated Intelligent Image Segmentation

Christian Hellriegel will demonstrate a workflow for machine learning based segmentation using new cutting edge tools from ZEISS.

Location: BioLabs Lecture Hall Rm 1080
16 Divinity Avenue, Cambridge, MA

This lecture series is designed to provide information on applications and techniques available in the HCBI. *You do not need to be a member of the facility to attend!*
For further information, please contact Doug Richardson (drichardson@fas.harvard.edu).
Pizza and drinks provided by Carl Zeiss Microscopy, LLC

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