



# Harvard Center for Biological Imaging Lunch and Learn Lecture Series

Fall 2015

September 9<sup>th</sup>  
12:00PM

**Introduction to Microscopy:**

Sven Terclavers will be speaking on the basics of microscopy. Come learn how a microscope works and what terms like NA and magnification really mean.

September 23<sup>rd</sup>  
12:00PM

**Introduction to 3D X-ray Microscopy:**

Amo Merkle from Carl Zeiss X-ray Microscopy will be here to explain how this technology can give you synchrotron-quality tomographic images in the laboratory.

October 7<sup>th</sup>  
12:00PM

**Introduction to Raman Imaging:**

Arthur McClelland from the Harvard Center for Nanoscale Systems will introduce us to the label-free Raman imaging technique.

October 14<sup>th</sup>  
All day

**Introduction to arivis Vision4D:**

The development team from arivis Vision4D will be on campus for an all-day workshop. Space is limited contact Doug Richardson to register.

October 21<sup>st</sup>  
12:00PM

**Introduction to Electron Microscopy:**

Carolyn Marks from the Harvard Center for Nanoscale Systems will discuss a number of electron microscopy techniques and methods of sample preparation for biological samples.

November 4<sup>th</sup>  
12:00PM

**Introduction to Fluorescence and Fluorescence Probes:**

Doug Richardson will provide an introduction to fluorescence, the basic structure of a fluorophore, and review the dyes, proteins and biosensors currently available.

November 20-22<sup>nd</sup>  
All day

**Tissue Clearing Workshop:**

The HCBI will host 3-day workshop focused on preparing, imaging, and analyzing cleared tissue. For more info and to register, go to:

[www.hcbi.fas.harvard.edu/tcw2015](http://www.hcbi.fas.harvard.edu/tcw2015)

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

This lecture series is designed to provide general information on microscopy. *You do not need to be an HCBI member to attend!* For further information, please contact Doug Richardson ([drichardson@fas.harvard.edu](mailto:drichardson@fas.harvard.edu)) or Sven Terclavers ([sven.terclavers@zeiss.com](mailto:sven.terclavers@zeiss.com)). *Pizza and drinks provided by Carl Zeiss Microscopy, LLC*

