



Microscopy using 3 Photon and 3rd Harmonics

Date

Seminar: Tuesday April 2, 2019
Instrument available through
May 2019

Time

12:00 - 1:00pm

Location

LSE244

Seminar & Workshop RSVP
events@azmicroscopy.org
Seminar lunch provided

Hosted by the Keck
Bioimaging Facility

3 Photon Microscopy to Image Biological Systems

A leading technique for in vivo, deep optical imaging is two-photon microscopy. Unfortunately, 2P microscopy has major limitations due to refractive aberration, scattering and absorption by tissue. Development of three photon systems use longer excitation wavelengths minimizes tissue scattering and absorption as well as decreases the out of focus background light. Khanh Kieu at the University of Arizona, as part of a collaborative ABOR funding project with ASU and NAU, has developed an affordable 3P microscope system. Dr. Kieu and Ben Cromey will describe the basics of multi-photon microscope systems including the benefits of label free imaging using second and third harmonics.

Demo scheduled Apr 2-5, 2019. Available for use through May 2019.

