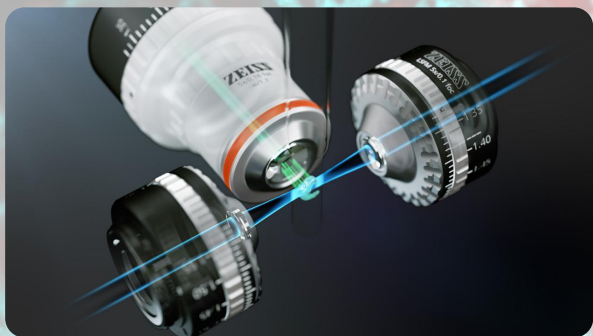


Zeiss Lightsheet 7 Workshop



Light-Sheet Multiview Imaging of Living and Cleared Specimens

Light Sheet Fluorescence Microscopy is a powerful fluorescence imaging technique that offers significant advantages over conventional approaches, particularly for three-dimensional imaging of whole organisms and large tissue specimens. By selectively illuminating the optical plane of interest with a thin sheet of light, it minimizes photobleaching and phototoxicity. This makes light sheet microscopy especially well suited for high-resolution, nondestructive imaging of delicate samples over extended periods, while preserving sample integrity and enabling detailed 3-D visualization.



Thursday, October 29th
Chemistry and Materials Building
(CAMB)

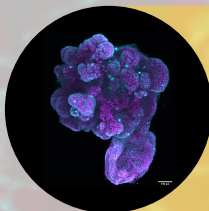
Lectures

9:00 - 11:00 am | Room 100

Hands-on

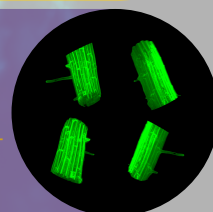
1:00 3:00 | Room 155

Cell Biology



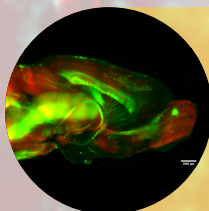
Bovine Endometrial Epithelial Organoid.
Iebu Devkota, Dr. Simintiras' Lab

Plant Biology



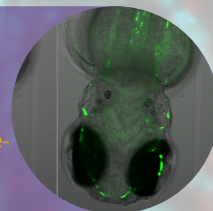
Arabidopsis root autofluorescence: three-dimensional images from multiple views.
Thu Nguyen, Dr. Maheshi Lab

Neuroscience



Neurons labeled with AAV5 viral vectors
Dr. Fabio Vigil

Developmental Biology



5-day-old zebrafish expressing membrane-targeted tdTomato under the sic6a2 promoter.
Melanie Wilson, Dr. Ahmed Abdelmoneim's Lab

Talks:

Introduction to Light Sheet Microscopy &

Showcase of Zeiss Light Sheet 7

Rogério Gomes, Ph.D.

Advanced Microscopy and Analytical Core LSU

Revealing the hidden: Tissue-clearing techniques and light sheet microscopy

Fabio Vigil, Ph.D.

Department of Comparative Biomedical Sciences

LSU School of Veterinary Medicine