

Confocal Microscopy for Technicians

May 7, 2021



Confocal Microscope Technicians



Why Confocal Microscopy for Technician?







What do Confocal Technicians Do?

- Prepare Samples
- Image Samples
- Replenish consumables
- Microscope maintenance
- Microscope repair

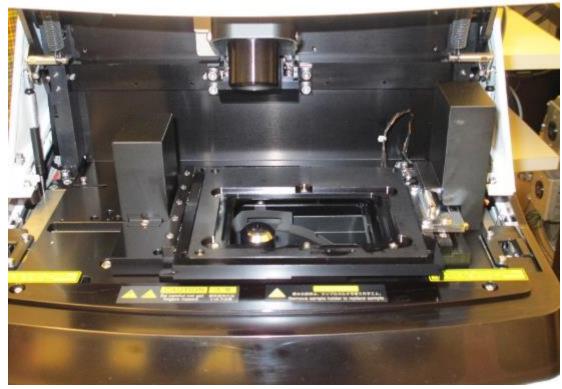






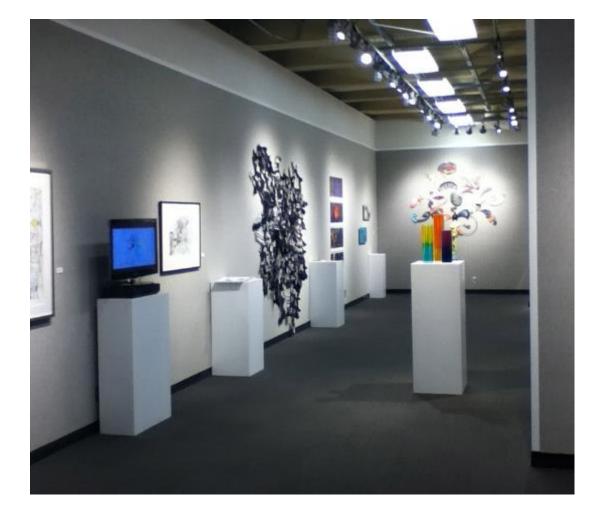
Confocal Microscope Equipment







Confocal Microscopy in Art





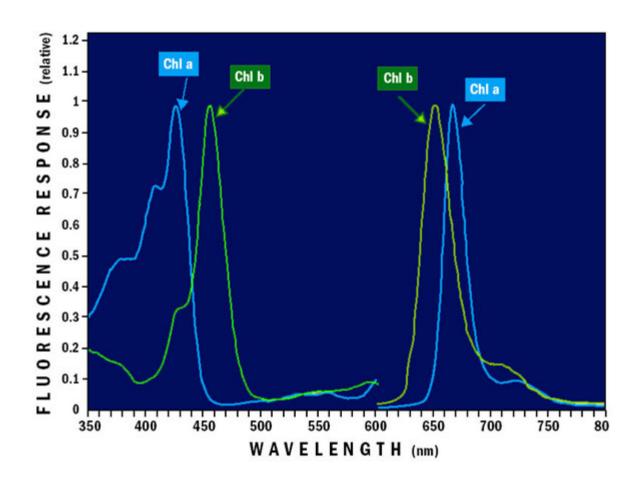




Technician Student Generated Confocal Images



Chlorophyll Fluorescence



Chlorophyll-a excitation = 425 nm

emission = 680 nm

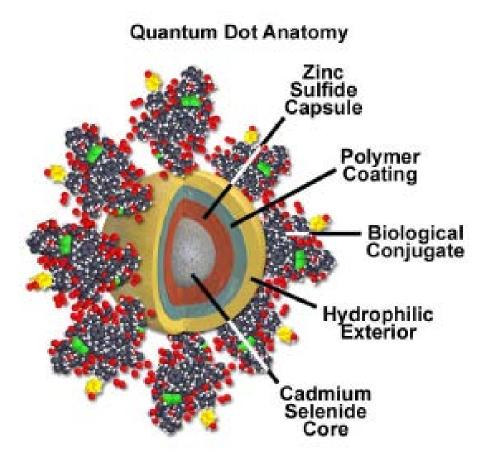
Chlorophyll-b excitation = 470 nm

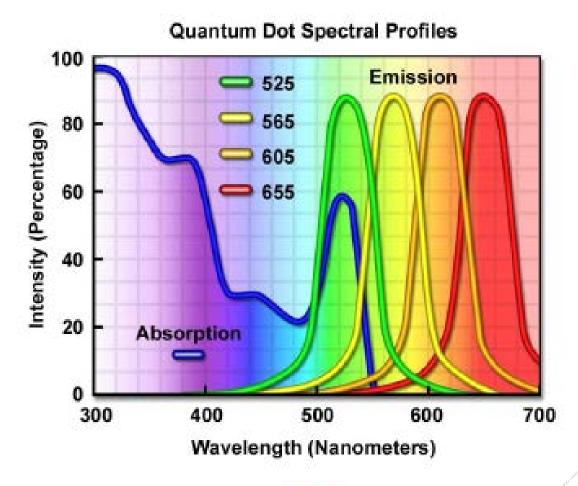
emission = 650 nm





Quantum Dots in Confocal Microscopy

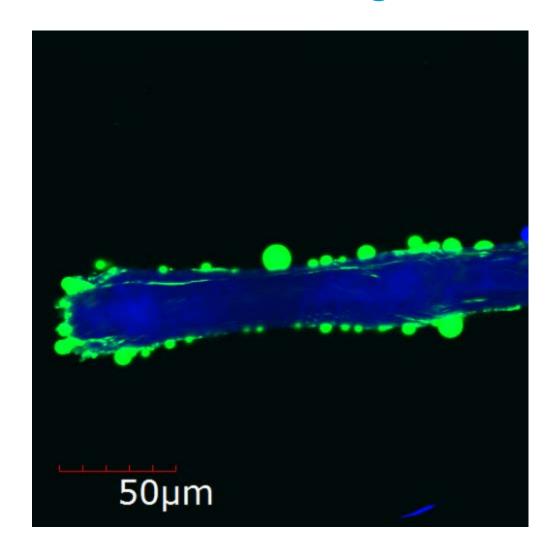


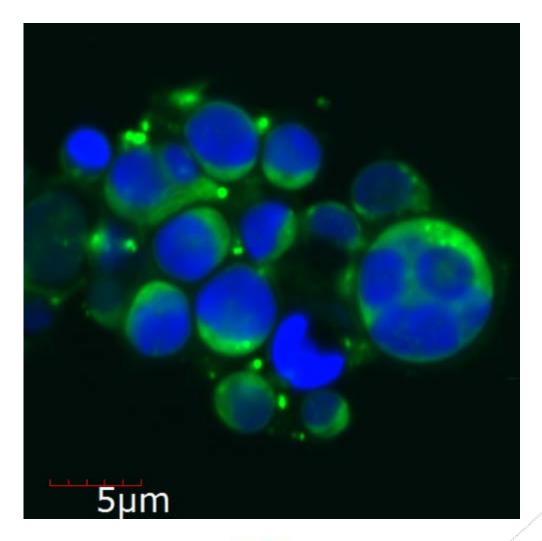






Confocal Images of Algea

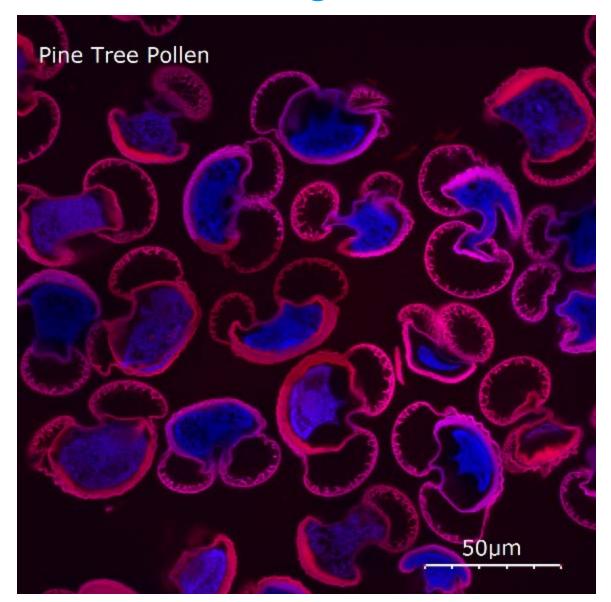








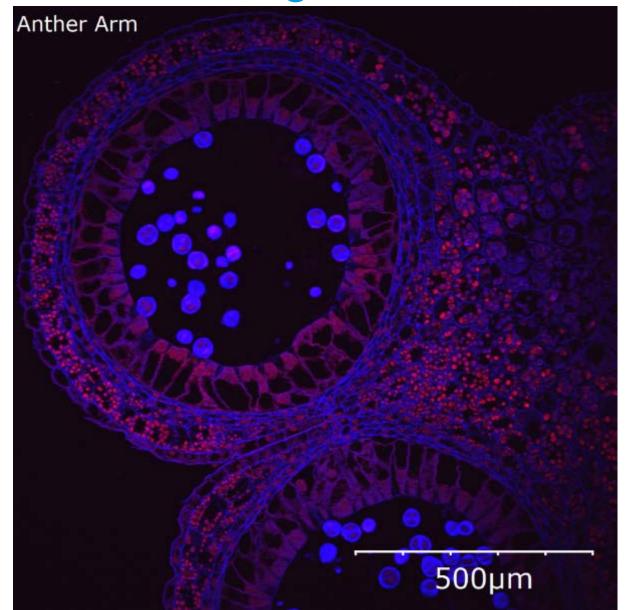
Confocal Image of Pine Tree Pollen







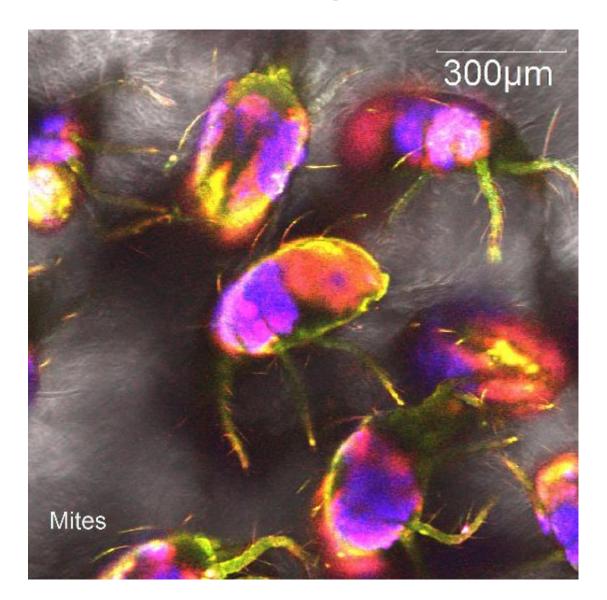
Confocal Image of Anther Arm of a Flower







Confocal Image of Mites

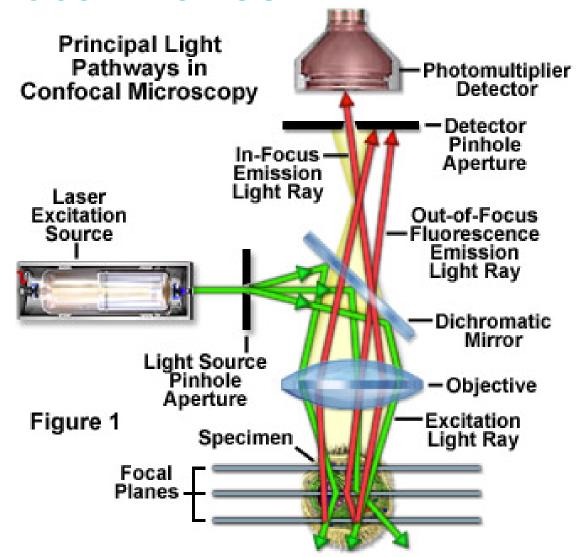




3D Confocal Microscopy



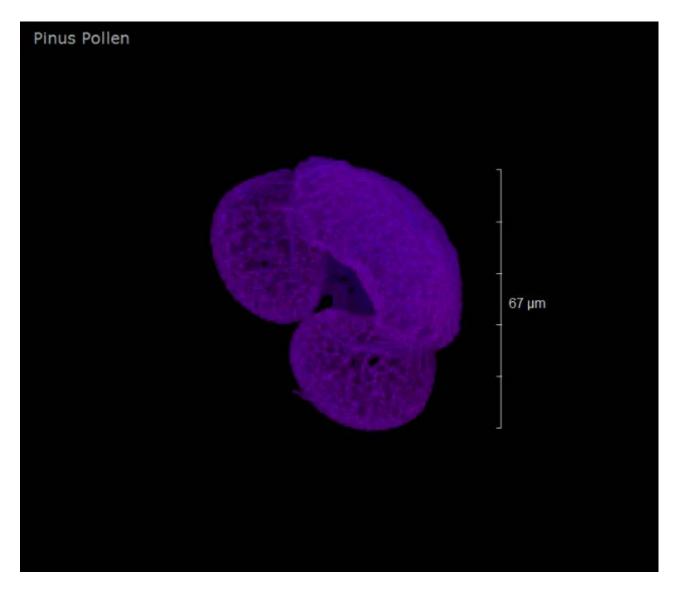
Confocal Planes



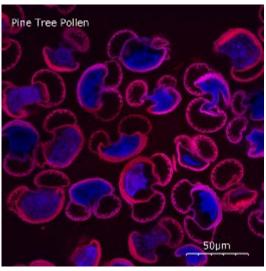




3D Pine Pollen Confocal Image



2D Pine Pollen Image







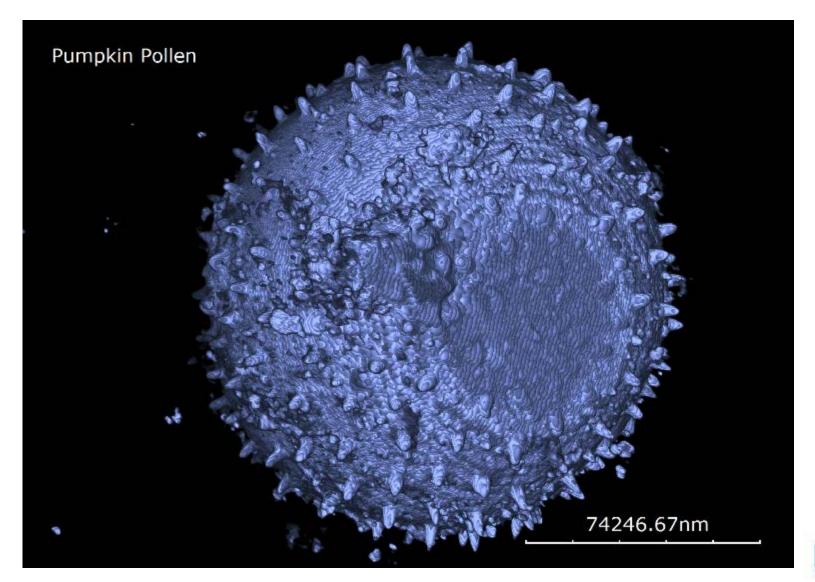
Tahr Overy Epithelium Cells







Pumpkin Pollen 3D Confocal Image







Confocal Plane Animation

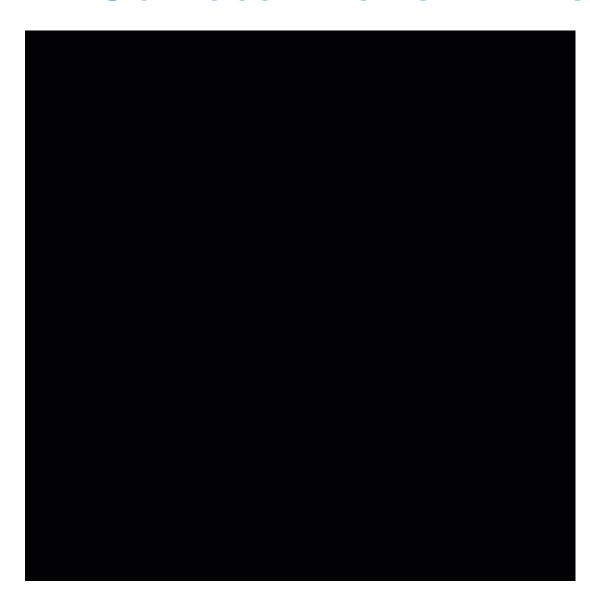
Insert Slide 23 Video_1.avi

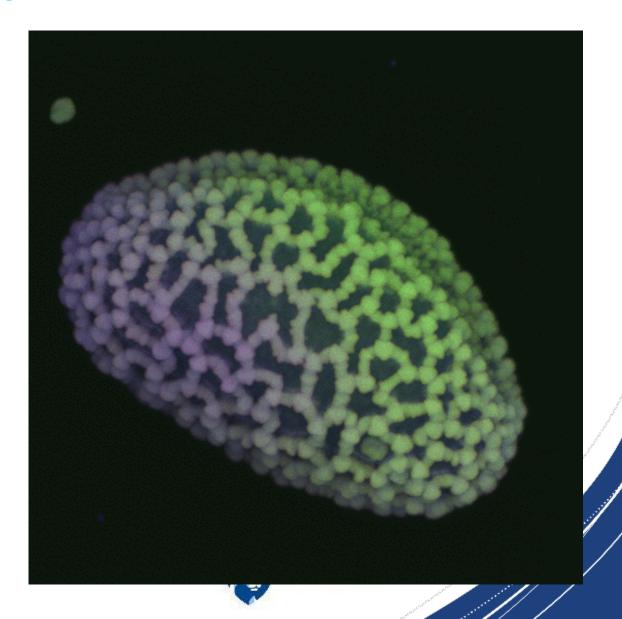
Insert Slide 23 Video_2.avi





Confocal Plane Animation







Thanks! Please keep in touch #teachnano

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