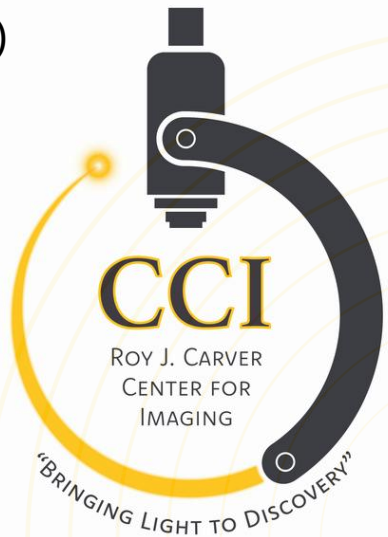




Biological Light Microscopy Imaging & Analysis

Leica STELLARIS 8 DIVE MP Confocal Microscope

- DMI8 inverted platform with motorized XYZ stage
- True point scanning confocal with pulsed white light laser (WLL)
 - Excitation range: 405 nm & 440-790 nm;
 - Emission range: up to 850 nm for far-red dyes
- Spectra-Physics Insight2 dual line pulsed laser (fixed 1045 nm + tunable 680-1300 nm) for simultaneous two-channel deep tissue multiphoton imaging, laser ablation, and FLIM/FRET
 - TauSense and FALCON (Fast Lifetime CONTRast)
- OkoLabs stage-top incubator for live cell/tissue work

Nikon SoRa Spinning Disk Confocal Microscope

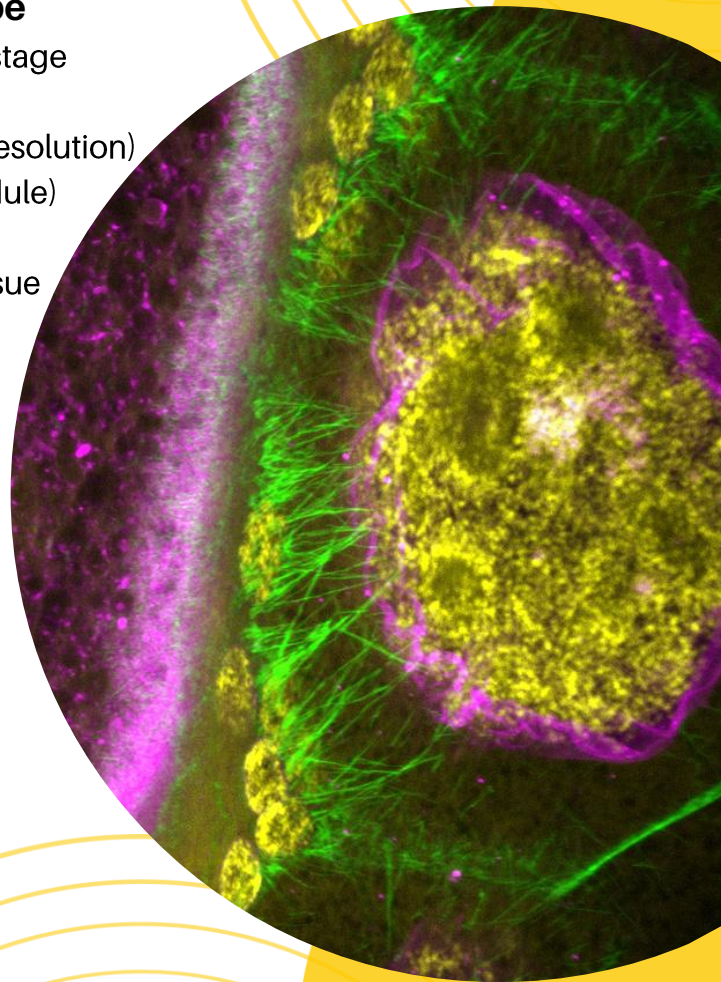
- Ti2-E inverted microscope platform with fast piezo Z-stage
- Yokogawa spinning disc confocal
- Super-resolution via Optical ReAssignment (120 nm resolution)
- Lasers: 405, 488, 561, & 640 nm (incl. photo-stim module)
- Hamamatsu ORCA-Fusion BT digital CMOS camera
- Tokai Hit stage-top incubator with CO₂ for live cell/tissue
- Nikon NIS Elements and deconvolution software

Leica TCS SP8 Confocal Microscope

- DMI8 inverted platform with motorized XYZ stage
- Solid state lasers: 405, 488, 552, & 638 nm
- OkoLabs stage-top incubator for live cell/tissue
- 5 internal + transmitted light detectors
- Integrated Lightening deconvolution
- FRET & FRAP applications

Image Processing Workstations (3) including:

- Imaris 10.2 with Filament Tracer & Tracking modules
- Leica LAS-X 2D/3D image analysis & deconvolution
- Nikon NIS Elements and deconvolution
- ImageJ/FIJI



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<https://biology.uiowa.edu/ccl>

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