

Biological Light Microscopy Imaging & Analysis

Leica STELLARIS 8 Confocal Microscope

- DMI8 inverted platform with motorized XYZ stage
- True point scanning confocal with pulsed white light laser
- Excitation range: 405 nm & 440nm-790nm; Emission range: up to 850nm for far-red dyes
- OkoLabs stage-top incubator for live cell/tissue work

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 work
- 5 internal detectors + transmitted light
- FRET & FRAP applications

Leica TCS SP5 Multi-photon Confocal Microscope

- DM6000 upright microscope stand with motorized XYZ stage
- Mai Tai MP laser (790-1040nm) enables multi-photon & 2nd harmonic generation imaging
- 3 internal detectors & 2 external non-descanned hybrid detectors
- DeepSee add-on supports deep tissue imaging

Image Processing Workstation

- HP Z640 workstation with LAS-X 2D & 3D image analysis
- Imaris 10.0 with Filament Tracer & Tracking modules
- Leica Lightening deconvolution software



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

