

Leica Spinning Disk Confocal

Location: EEJMRB Room 5122

Hardware:

- Leica DMI8 motorized microscope with adaptive focus tracking
- ASI motorized stage with Piezo Z
- W-1 large format spinning disk confocal with beam homogenizer
- Andor 1024 x 1024 EMCCD camera
- Visitron 2D FRAP unit
- 405,488,561,640nm laser lines for DAPI, GFP, RFP, Cy5, and similar fluorochromes
- W-View image splitter for dual channel simultaneous imaging
- LED based widefield fluorescence
- Stage top incubator system
- Visiview acquisition software

Primary applications:

- 2D and 3D Multi-Channel Fluorescence Imaging
- 3D Restorative Deconvolution
- Time-Lapse Imaging
- Multipoint Imaging
- Sample images before (A) and after (B) deconvolution

Objectives:

Objective	Magnification	Immersion	Numerical Aperture	Correction Ring	Coverglass (mm)	Working Distance (mm)
HC PL APO CS2	10	Air	0.4			2.74
HCX PL APO CS	20	Air	0.75		0.17	0.62
HC PL APO CS2	40	Water	1.1	Corr	0.14-0.18	0.65
HC PL APO CS2	63	Oil	1.4		0.17	0.14

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