

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 |

Revision #2

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