

**Thor – structured illumination microscopy (SIM) super-resolution & laser scanning confocal**

- Inverted Nikon Ti-E Microscope with Perfect Focus System
- High precision motorized X, Y, Z stage
- Nikon N-SIM Structured Illumination Super-resolution imaging with Andor iXon X3 EM-CCD camera
- Nikon A1 laser scanning confocal with 2x standard PMT and 2x high sensitivity GaAsP Detectors
- Six color imaging (405 nm, 445 nm, 488 nm, 515 nm, 561 nm, 647 nm)
- 10x/0.45 NA, 20x/0.75 NA, 40x/ 0.95 NA, 40x/ 0.6 NA ELWD, 60x/1.27 NA WI, 100x/ 1.49 NA objective lenses
- DIC imaging at 20x, 40x, 60x, and 100x
- Nikon NIS Elements Software
- Tokai Hit incubation chamber for live cell imaging (shared with Black Widow, sign up separately)

**Black Widow – spinning disk confocal**

- Inverted Nikon Ti-E Microscope with Perfect Focus System
- High precision motorized X, Y, Z stage
- Four color imaging ( 405 nm, 488 nm, 561 nm, and 640 nm)
- Yokogawa CSU10-B Spinning Disk Unit
- Andor iXon X3 and Hamamatsu ImageEM EM-CCD cameras for confocal and widefield imaging
- 10x/0.45 NA, 20x/0.75 NA, 40x/0.95 NA, and 100x/1.45 NA objective lenses
- Nikon NIS Elements Software
- Coherent OBIS 405 nm 50 mW laser for single point photobleaching, photoactivation, or photoconversion
- Tokai Hit incubation chamber for live cell imaging (shared with Thor, sign up separately)

**Iron Man – laser scanning confocal**

- Inverted Zeiss 510 laser scanning confocal with 3x standard PMT Detectors
- Motorized Z Drive
- Seven color imaging (405 nm, 458 nm, 477 nm, 488 nm, 514 nm, 543 nm, 633 nm)
- 5x/0.15 NA, 10x/0.3 NA, 20x/0.8 NA, 40x/1.3 NA, 63x/1.4 NA, 100x/1.4 NA objective lenses
- DIC imaging at 40x, 63x, and 100x
- Zeiss Zen 2009 Software

**Loki – widefield**

- Upright Nikon E600 Widefield Microscope
- Motorized Z Drive
- Four color imaging (DAPI, FITC/GFP, TRITC/RFP, Cy5)
- 10x/0.3 NA, 20x/0.5 NA, 40x/0.95 NA, 40x/ 0.75 NA, and 100x/1.3 NA objective lenses
- Phase contrast imaging at 10x, 20x, 40x, and 100x
- DIC imaging at 40x
- Spot Insight color CCD camera and Spot Basic Software
- Nikon Digital Sight CCD camera and Nikon Elements Software

**Captain America – widefield**

- Upright Leica DMRXA Widefield Microscope
- Motorized X, Y, and Z stage
- Four color imaging (DAPI, FITC/GFP, Cy3/RFP, Sedat Quad Set-DAPI, FITC/GFP, Cy3/RFP, Cy5)
- 10x/0.3 NA, 20x/0.7 NA, 40x/0.85 NA, 40x/1.25-0.75 NA, 63x/1.4-0.6 NA, 100x/1.4-0.7 NA objective lenses
- QImaging Retiga CCD camera
- 3i Slidebook Software with Deconvolution

**Hulk – analysis PC**

- Dell Precision Analysis PC with Intel Xeon E5-2620 6 Core 2.4GHz processor and 32 GB RAM
- Video Card - NVIDIA Quadro K4200 4GB
- Dual 24" Dell UltraSharp monitors
- Software: Full Nikon Elements (including SIM reconstruction module), Full 3i Slidebook, Zeiss Zen Lite, ImageJ, FIJI, MatLab, Microsoft Office, Cell Profiler, Irfan View, NotePad+, Olympus Yokogawa CV1000 Offline, Vaa3D, Icy