Zeiss LSM 710 Laser Scanning Confocal (Tabletop)

The Zeiss LSM 710 confocal microscope system uses a Zeiss AXIO Observer Z1 inverted microscope stand with transmitted (HAL), UV (HBO) and laser illumination sources. It can collect transmitted light images (bright field and DIC) as well as conventional and confocal fluorescence images. The scope has 10x, 20x, 40x (dry), 40x (water), 63x and 100x (oil) objectives.

Location:

- Research Instrumentation Laboratory (RIL), MWAH Room 55

Access Requirements:

- Training and calendar access: Jim Bjork (jbjork1@d.umn.edu)
- Key fob access to RIL: Jim Bjork (jbjork1@d.umn.edu)

Microscope specifications:

- Inverted confocal microscope
- Transmitted and laser illumination sources
- Brightfield
- DIC
- Blue, green, and red fluorescence
- Lasers: 405, 458, 488, 514, 561 and 637nm
- Objectives: 4x, 10, 20x,40x (water), 63x (oil), 100x (oil)
- Z-stack for optical 3D scan
- Stage incubator for live cell imaging

Manual:

- https://www.zmbh.uni-heidelberg.de/Central_Services/Imaging_Facility/info/780ZEN2010.pdf