

EQUIPMENT IN SERVICE - VANDERBILT CELL IMAGING SHARED RESOURCE

Confocal Microscopes

1. Inverted LSM510 Meta (Zeiss), MRBIII 4155
2. Inverted LSM510 (Zeiss), Light Hall 704
3. Inverted FV1000 (Olympus), MRBIV 10434
4. Inverted LSM710 (Zeiss), Light Hall 704
5. Inverted LSM880-Airyscan (Zeiss), Light Hall 704
6. Inverted LSM980-Airyscan2 (Zeiss), ACRE F309 (VA Medical Center)
7. Upright Stellaris 5 (Leica), 051 ESB

Specialty Laser-Scanning Microscopes

8. Inverted LSM780-NLO "2-photon" (Zeiss), Light Hall 704
9. Multi-excitation TIRF (Nikon), MCN BB-1116
10. Inverted STORM "super-resolution" (Nikon), MCN T-2216
11. Nikon TIRF-SIM "super-resolution" (Nikon), MCN T-2216
12. Spinning Disk confocal (Nikon), MCN T-2216

Wide-field (Conventional) Microscopes

13. Inverted DMIRB (Leica), Light Hall 704
14. Upright Axioplan (Zeiss), Light Hall 704
15. Upright AZ100 (Nikon), Light Hall 704

Lightsheet Microscopes

16. Z.1 Lightsheet (Zeiss), Light Hall 704
17. Lattice Lightsheet (custom built), Light Hall 704
18. Scanned Oblique Plane Illumination Lightsheet (custom built), Light Hall 704

Transmission Electron Microscope

19. FEI Tecnai T12 TEM (120 kV LaB6 source), Gatan cryotransfer stage, and AMT XR41-S side mounted 2K X 2K CCD camera, 2102 Stevenson Center

Scanning Electron Microscopes

20. Zeiss Crossbeam 550 Focused-Ion-Beam Scanning Electron Microscope, 051 ESB
21. FEI Quanta 250 ESEM with secondary electron and backscatter electron detectors and Peltier cooling stage. 149 Jacobs Hall

General Electron Microscopy Processing

- Three Leica ultramicrotomes, 2102 Stevenson Center
- Gatan Cryotransfer stage, 2102 Stevenson Center
- Vibratome tissue slicer, MCN T-3208
- 2x EMS freeze substitution stations, MCN T-3208
- Tousimis Critical Point Dryer, MCN T-3208
- Cressington 108 Auto sputter coater, MCN T-3208
- Plasma Cleaner/Glow Discharge, MCN T-3208
- Pelco Biowave Biological Microwave Processor, MCN T-3208
- EMS 950 carbon/metal evaporator and coater, MCN BB-1116

Analysis Software for Image Processing

- Arivis Vision4D, Light Hall 704
- Imaris by Bitplane, Light Hall 704
- Nikon Elements (2), MCN T-2216
- Adobe Photoshop, Light Hall 704