

EQUIPMENT IN SERVICE - VANDERBILT CELL IMAGING SHARED RESOURCE

Confocal Microscopes

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

Specialty Laser-Scanning Microscopes

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

Wide-field (Conventional) Microscopes

14. Inverted DMIRB (Leica), Light Hall 704
15. Upright AZ100 (Nikon), Light Hall 704
16. Inverted Ti-2 (Nikon) with Alveole PRIMO micropatterning, MCN T-2216

Lightsheet Microscopes

17. Z.1 Lightsheet (Zeiss), Light Hall 704

Transmission Electron Microscopes

18. JEOL JEM 2100 Plus Transmission Electron Microscope (200 keV LaB6 source), MCN RR-1207

Scanning Electron Microscope

19. Zeiss Crossbeam 550 Focused-Ion-Beam Scanning Electron Microscope, 051 ESB

General Electron Microscopy Processing

- Three Leica UC Ultramicrotomes, MCN RR-1207
- Leica UC Enuity Ultramicrotome, MCN-RR-1207
- Leica AFS2 freeze substitution machine, MCN RR-1207
- Leica EM-ICE High Pressure Freezer, *to be installed in early 2025*
- 2x EMS freeze substitution stations, MCN T-3208
- Gatan Cryotransfer stage, MCN RR-1207
- Vibratome tissue slicer, 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 (2), Light Hall 704
- Nikon Elements (2), MCN T-2216