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AT
CHAPEL HILL

Michael Hooker Microscopy Facility
School of Medicine
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Michael Hooker Microscopy Facility
Statement of Resources

The Michael Hooker Microscopy Facility was enabled by a gift from an anonymous donor to the University of North Carolina in 2001 to further research in proteomics. At the present time, the Facility is located in approximately 850 ft^2 on the 6^{th} floor of Thurston-Bowles Building. In this space, the following instrumentation is presently installed and is available for general use: [i] Zeiss Meta 510, a laser scanning confocal microscope on an inverted stand, complete with a *Meta*, spectral emission detection system; [ii] Leica SP2, a laser scanning confocal microscope on an upright stand, a system which includes a built-in spectral emission detection unit; [iii] Perkin-Elmer Ultraview, a spinning disk confocal microscope on an Nikon TE2000, inverted stand; [iv] Leica ASLDM, a laser microdissection microscope; and conventional [v] Leica DM-IRB inverted and [vi] Nikon Microphot-SA upright microscopes equipped with high resolution, color CCD cameras. The conventional microscopes are all served by PCs running Compix *C-Imaging* image acquisition and analysis software Additionally, *C-Imaging* software is installed on two PCs setup as image analysis workstations, one of which also hosts *Volocity* a, volume visualization and 3D rendering software package. Available for use in 6 months will be a Nikon TE2000 inverted microscope setup for multi-mode excitation and emission fluorescence, and time-lapse, microscopy. In addition, the following instrumentation is available by special arrangement: [i] a Leica TCS 4D laser scanning confocal microscope and [ii] a Thermomicroscope atomic force microscope setup on the same table, so they can be used together. Additionally, in 6 months a Nikon TE2000 inverted stand will be available that is setup for multimode excitation and emission microscopy, with dual, simultaneous imaging to two cameras, a cooled CCD camera long wavelength (610 nm), transmitted phase or DIC images, and an intensified CCD for shorter wavelength fluorescence images.

Interested parties may learn more about the Facility on its website, http://mhmicroscopy.med.unc.edu/.