

This Cell Imaging Core provides comprehensive confocal microscopy service to RWJMS and Rutgers academic community as well as industry users. Currently we have two latest state-of-art confocal microscopes.

Zeiss LSM 510-META: confocal microscope. This high spatial-temporal resolution microscope is equipped with UV and three visible light lasers, three fluorescence detectors including one with polychromatic function and a transmitted light detector. The Axiovert 200 inverted Scope used by the system has 10, 20 (DIC) and 63X (DIC) water immersion objectives, which is perfect for live cell imaging. Motorized Z-axis, objective switch and other functions are all computer automated and user-friendly. Another unique capability of this system is emission fingerprinting for reliable separation of complex fluorescence signals - even with widely overlapping emission spectra.

BD Pathway 855 Bioimager System: This high-throughput and true confocal microscope provides real-time measurement for 96- and 384-multiwell plate and slide. The environmentally controlled chamber and integrated liquid handling with image-as-you-add capability make it perfect for live cell imaging and kinetic assay. Sophisticated, flexible and user-friendly software is incorporated in for high content imaging analysis.

The Core also provides hand-on based training and imaging consultation. A 3-credits course on *Optical Microscopy and Cell Imaging* is offered every other year in spring semester for graduate students (Rutgers: 16:761:590; RWJMS: PHYS-5001).

Services and Pricing

Both hourly charge and annual/semi-annual fee are available. Please contact the Core Director for details.

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Hours of Operation:

For self-service:

24 hours/day,

7 days/week;

For assisted-service:

Monday – Friday

9:00 A.M. – 6:00 P.M.