

## **Biolmaging Facility**

- The facility has reopened. Masks are no longer required
- Reserving equipment at <http://bookit.hunter.cuny.edu> prior to use is **mandatory**



**Managing Director**

**Dr. Lloyd Williams**

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**Scientific Director****Prof. Diana Bratu, Associate Professor**

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National Institute  
on Minority Health  
and Health Disparities

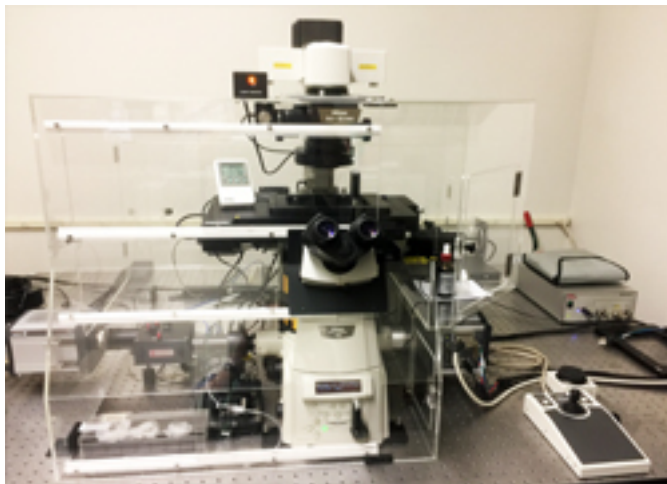
**Description of the Facility****Background Overview**

The BioImaging Facility at Hunter College is centered in a multi-room facility of 1024 sq. ft. located in the Biological Sciences Department on the 8th Floor of Hunter North building. A satellite facility also includes a number of instruments on the 4th Floor of the Belfer Research building (at 69th Street and York Ave). Faculty and students have access to a broad spectrum of instruments, ranging from simple white light wide-field microscopes to fluorescent multidimensional super-resolution and confocal imaging systems. The Faculty supervisor and Scientific Director is Dr. Diana P. Bratu. Dr. Lloyd Williams is the Managing Director of the facility. The facility staff has expertise in many areas of microscopy including the laser scanning confocal microscopy, super-resolution microscopy, two-photon microscopy. They are also

familiar with many image analysis software packages, including, Imaris, Volocity, Autoquant, MetaMorph, and NIS-Elements. Detailed descriptions of the equipment in the facility is given below. All equipment is located at Rm 826 HN or at the 4th floor of the Belfer Research Building where designated

To book time on any of the instruments go to <http://bookit.hunter.cuny.edu>

## Instruments

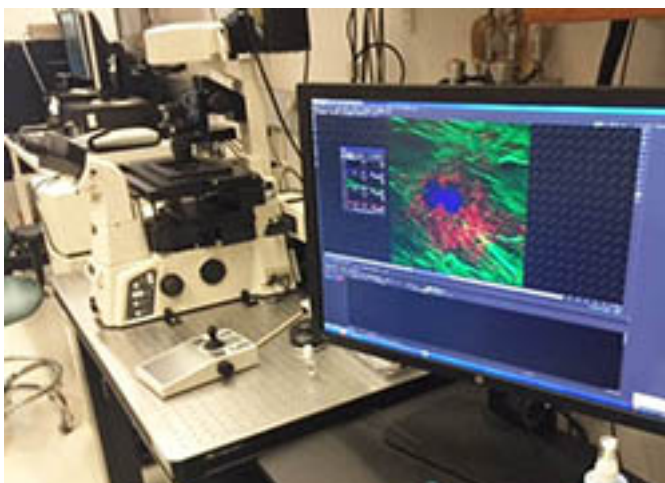


### Nikon Eclipse Ti, TIRF/SIM

The Nikon TIRF SIM microscope allows the users to do both Total Internal Reflection Microscopy and

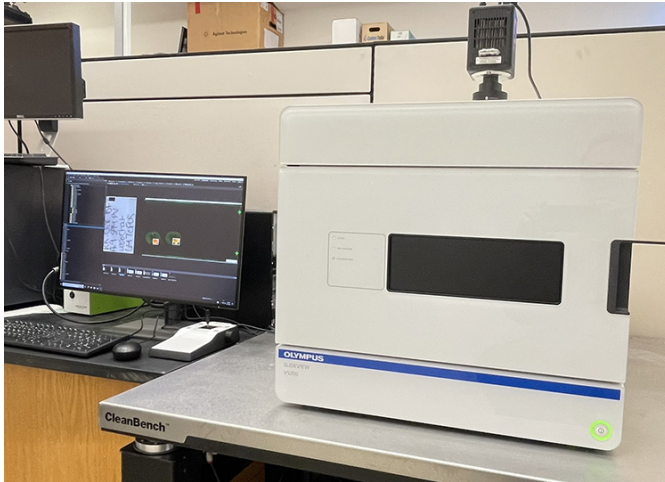
This machine is in 826HN

The charge for this instrument is \$20/hr.



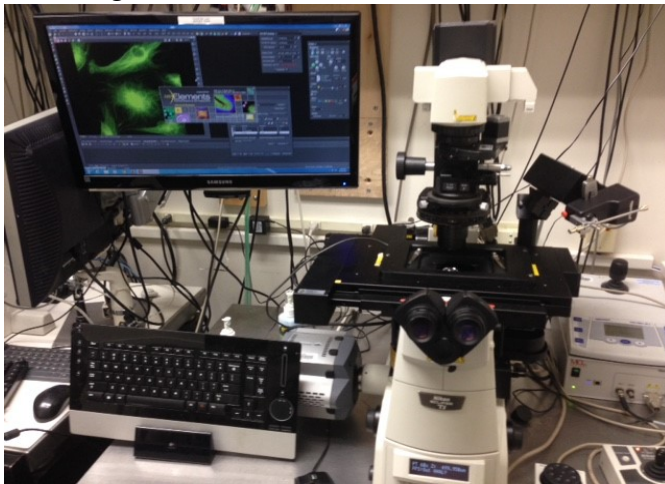
### **Belfer Nikon A1 Confocal Microscope**

The Nikon A1 Confocal microscope is Nikon's powerful fully-automated confocal imaging system, capable of high-resolution 3D imaging. The charge for this instrument is \$20/hr.



### **Olympus VS200 Slide Scanner**

The SLIDEVIEW™ VS200 research slide scanner enables you to capture high-resolution images of research slides. The charge for this instrument is \$20/hr.



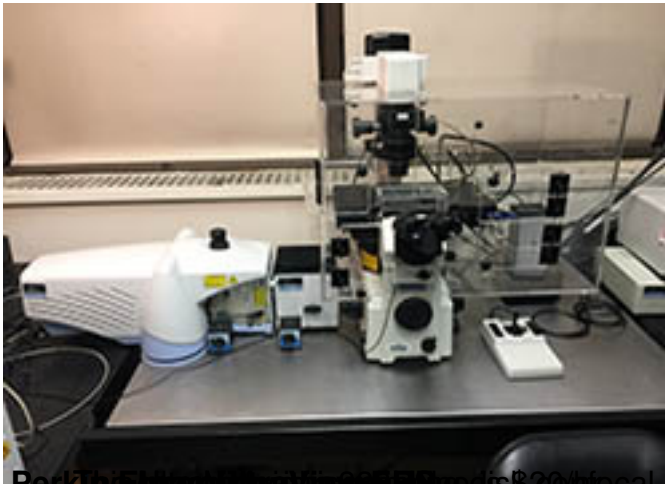
### **Nikon Eclipse Ti Mosaic System**

The Nikon Eclipse Ti scope is a wide-field fluorescent microscope. It is equipped with Andor iXon EMCCD camera. The charge for this instrument is \$15/hr.

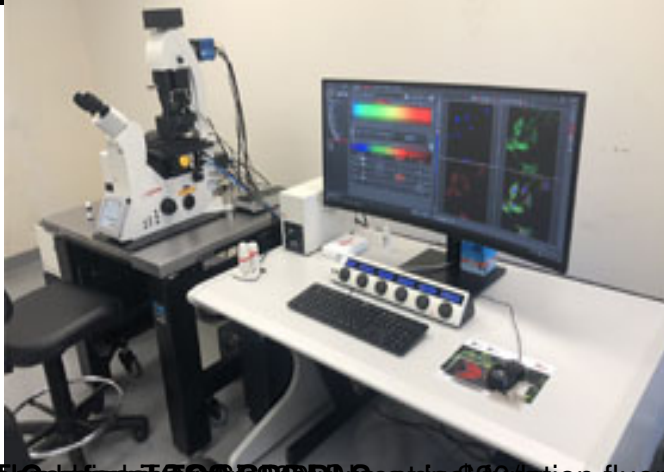
This machine is in 826HN

The charge for this instrument is \$15/hr.





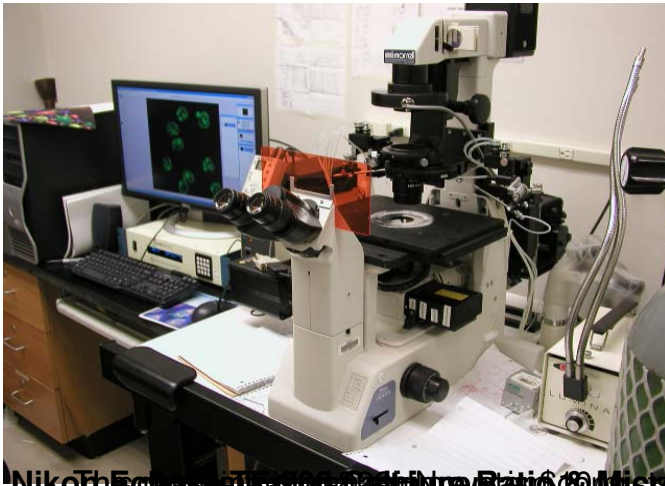
**PerkinElmer Lambda 900 Raman** is a Raman microscope equipped with five laser lines, which allow vis



**Leica TCS SP5 DRC** is a confocal microscope that can be used as a convent



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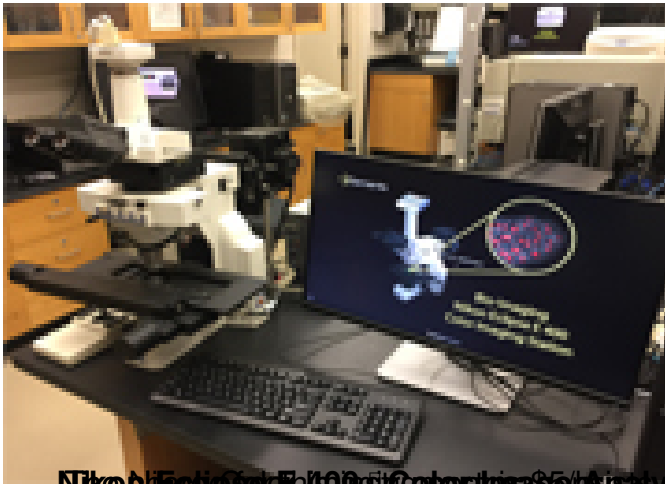
**Nikon Eclipse TE 200 inverted epifluorescence microscope**



**Nikon DigiSight camera and Nikon Eclipse TE 200 inverted epifluorescence microscope**



**JEOL JEM-100C/CX transmission electron microscope**



□ Nikon Eclipse E400 upright microscope, and Nikon D5100 camera system



□ Nikon D5100 camera system, and Bitplane's Imaris Imaging software installed



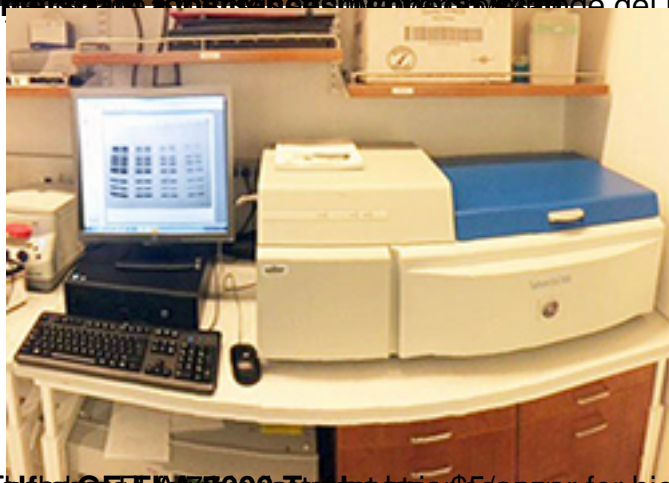
□ Nikon NIS-Elements imaging software installed







**Amersham Biosciences Typhoon 9410** multi-channel gel imager. The Typhoon 9410 unites the ability to detect



**Beckman Coulter DTX 800** Fluorescence Reader for biomolecular imaging applications including sensitive a



**Olysys Infinite 2100** multi-channel plate reader. Methods of analyzing western blots, chemiluminescence, and flu



**Biotech Systems HTS Multi-Well Plate Reader** for maximum speed in both 96- and 384-well plate formats



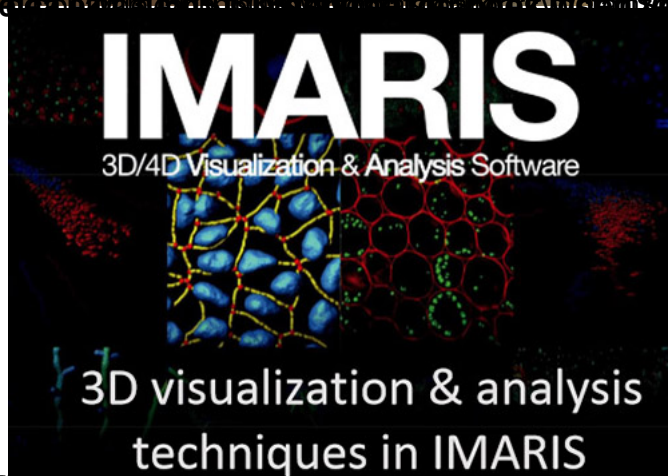
**Biotech Systems HTS Multi-Well Plate Reader** for making: absorbance, fluorescence, luminescence



**GloMax 96 Microplate Luminometer** is a state-of-the-art Microplate Luminometer



Fig. 1. Confocal microscope (Leica TCS SP5) used for 3D visualization and analysis of cells. The Bio-Imaging Facility is located in 826 HN (Room Beller BB 479).



Fluorescence microscopy is a technique used to study the structure and function of cells and tissues. It involves the use of fluorescent dyes or proteins that emit light when excited by a specific wavelength of light. The emitted light is then collected and focused through a series of lenses to form a sharp image of the sample. This technique is widely used in biology and medicine to study the behavior of cells and the structure of tissues. The Bio-Imaging Facility is equipped with a confocal microscope, which allows for high-resolution imaging of cells and tissues. The facility is located in 826 HN (Room Beller BB 479). The Bio-Imaging Facility is a state-of-the-art facility that provides a wide range of imaging techniques, including fluorescence microscopy, confocal microscopy, and electron microscopy. The facility is staffed by experienced scientists and technicians who are able to provide expert advice and assistance to users. The Bio-Imaging Facility is a valuable resource for researchers in biology and medicine, and it is open to all researchers who are interested in using the facility. The Bio-Imaging Facility is a state-of-the-art facility that provides a wide range of imaging techniques, including fluorescence microscopy, confocal microscopy, and electron microscopy. The facility is staffed by experienced scientists and technicians who are able to provide expert advice and assistance to users. The Bio-Imaging Facility is a valuable resource for researchers in biology and medicine, and it is open to all researchers who are interested in using the facility.