

Scientific Instrumentation Available for Use by the Research Community (updated 2/3/12)

Instrument	Manufacturer/Model	Location	Access requirements
<b>Flow Cytometry</b>			
Advanced Flow Cytometry Analyzers	BD LSR II (2 instruments)	FLOW CYTOMETRY RESOURCE CENTER (DWB 211)	Completion of appropriate training. Both FLOW CYTOMETRY RESOURCE CENTER on-line booking system registration and CFS login/password are needed. Cardkey access; 24/7
Basic Flow Cytometry Analyzers	FACSCalibur (1 instrument) BD Accuri C6 (1 instrument)	FLOW CYTOMETRY RESOURCE CENTER (DWB 211)	Completion of appropriate training. Both FLOW CYTOMETRY RESOURCE CENTER on-line booking system registration and CFS login/password are needed. Cardkey access; 24/7
Large Particle microtiter plate dispenser	Union Biometrica COPAS Select	HIGH THROUGHPUT SCREENING RESOURCE CENTER (DWB 210/214/216)	Completion of appropriate training; cardkey access 24/7
<b>Light Microscopy</b>			
Inverted light microscope with digital camera	Olympus IX71 microscope	BIO-IMAGING RESOURCE CENTER (DWB 201)	Completion of appropriate training; cardkey access 24/7
Widefield spectral imaging system	CRI Nuance camera on Zeiss Axioskop 2 fixed stage upright microscope	BIO-IMAGING RESOURCE CENTER (DWB 201)	Completion of appropriate training; cardkey access 24/7
Upright multiphoton system multiphoton system	Olympus FV1000MPE Twin system with Coherent Vision II and XR IR lasers	BIO-IMAGING RESOURCE CENTER (DWB 202)	Completion of appropriate training; cardkey access 24/7
3D-SIM super-resolution microscopy system	Applied Precision Inc. OMX Blaze	BIO-IMAGING RESOURCE CENTER (DWB 202)	Completion of appropriate training; cardkey access 24/7
STORM/TIRF inverted microscope system also fitted with FLIM system	Nikon and Lambert Instruments/STORM/TIRF/FLIM Microscope	BIO-IMAGING RESOURCE CENTER (DWB 202)	Completion of appropriate training; cardkey access 24/7
Wide-field fluorescence/brightfield/DIC microscope	Zeiss, Axioplan 2 imaging upright	BIO-IMAGING RESOURCE CENTER (DWB 201)	Completion of appropriate training; cardkey access 24/7
Inverted fluorescence microscope for tissue culture cells	Nikon Eclipse TS100 inverted	BIO-IMAGING RESOURCE CENTER (DWB 201)	Completion of appropriate training; cardkey access 24/7
Inverted microscope for time-lapse, fluorescent and phase contrast imaging of cells or embryos	Olympus IX71 inverted microscope with phase contrast optics	BIO-IMAGING RESOURCE CENTER (DWB 201)	Completion of appropriate training; cardkey access 24/7
DeltaVision Image Restoration Microscope	Applied Precision / Olympus; Inverted Olympus IX-70 microscope (2	BIO-IMAGING RESOURCE CENTER (DWB 202)	Completion of appropriate training; cardkey access 24/7

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	instruments)		
Upright laser scanning confocal microscope	Zeiss LSM 510	BIO-IMAGING RESOURCE CENTER (DWB 201)	Completion of appropriate training; cardkey access 24/7
Inverted laser scanning confocal microscope	Zeiss LSM 510	BIO-IMAGING RESOURCE CENTER (DWB 201)	Completion of appropriate training; cardkey access 24/7
Inverted laser scanning confocal microscope	Zeiss LSM 780	BIO-IMAGING RESOURCE CENTER (DWB 203)	Completion of appropriate training; cardkey access 24/7
Spinning disk confocal microscope for real-time live cell imaging	Zeiss/Perkin-Elmer; Inverted Zeiss Axiovert 200 microscope	BIO-IMAGING RESOURCE CENTER (DWB 201)	Completion of appropriate training; cardkey access 24/7
Inverted multiphoton microscope system	Zeiss LSM 510 NLO	BIO-IMAGING RESOURCE CENTER (DWB 201)	Completion of appropriate training; cardkey access 24/7
Laser microdissection system	MMI CellCut system	BIO-IMAGING RESOURCE CENTER (DWB 202)	Completion of appropriate training; cardkey access 24/7
Inverted light microscope	Nikon inverted microscope	BIO-IMAGING RESOURCE CENTER – EM (RRB 120)	
Light microscope	Olympus BH-2 light microscope	BIO-IMAGING RESOURCE CENTER – EM (RRB 120)	
Incubator microscope for long-term live cell imaging with full environmental control	Olympus LCV110U VivaView	BIO-IMAGING RESOURCE CENTER - DWB 202	Completion of appropriate training; cardkey access 24/7
Live animal imaging	IVIS Illumina	COMPARATIVE BIOSCIENCE CENTER (CBC)	ACUC protocol approval; Completion of appropriate training; cardkey access 24/7
UV microscope for protein crystal inspection	JANSI UVEX	STRUCTURAL BIOLOGY RESOURCE CENTER (RRB 363)	Cardkey access only after hours
<b>Electron Microscopy</b>			
Transmission electron microscope	FEI Tecnai G2 Spirit BioTwin transmission electron microscope with Gatan 4K x 4K digital camera	ELECTRON MICROSCOPY RESOURCE CENTER (RRB 152)	Upon approval by Electron Microscopy Center Director and with appropriate scheduling
Transmission electron microscopes	JEOL 100 cx transmission electron microscopes with AMT 2K x 2K digital imaging system	ELECTRON MICROSCOPY RESOURCE CENTER (RRB 120)	Upon approval by Electron Microscopy Center Director and with appropriate scheduling
Scanning electron microscope	ZEISS LEO 1550 scanning electron microscope with field-emission electron gun	ELECTRON MICROSCOPY RESOURCE CENTER (RRB 154)	Upon approval by Electron Microscopy Center Director and with appropriate scheduling
Ultramicrotomes	REICHELTE Ultra Cut E ultramicrotomes	ELECTRON MICROSCOPY RESOURCE CENTER (RRB 120)	Upon approval by Electron Microscopy Center Director and with appropriate scheduling
Cryoultramicrotome	LEICA UC6b/EM FC6 cryoultramicrotome	ELECTRON MICROSCOPY RESOURCE CENTER (RRB 120)	Upon approval by Electron Microscopy Center Director and with

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			appropriate scheduling
Glass knife-makers	LKB glass knife-makers	ELECTRON MICROSCOPY RESOURCE CENTER (RRB 120)	By Appointment
Carbon coating unit	EDWARDS carbon coating unit	ELECTRON MICROSCOPY RESOURCE CENTER (RRB 120)	By Appointment
High Pressure Freezer	LEICA High Pressure Freezer EM-PACT2	ELECTRON MICROSCOPY RESOURCE CENTER (RRB 120)	By Appointment
Freeze Substitution System	LEICA EM AFS2 Automatic Freeze Substitution System	ELECTRON MICROSCOPY RESOURCE CENTER (RRB 120)	By Appointment
EM Tissue Processor	LEICA EM TP Automatic Tissue Processor	ELECTRON MICROSCOPY RESOURCE CENTER (RRB 120)	By Appointment
Calorimeter			
Isothermal Calorimeter with micro titer plate auto-sample	GE MicroCal MicroITC	HIGH THROUGHPUT SCREENING RESOURCE CENTER (DWB 210/214/216)	Completion of appropriate training; cardkey access 24/7
Chromotography			
HPLC	HP 1100 HPLC system	PROTEOMICS RESOURCE CENTER - (RRB 156)	Completion of appropriate training; cardkey access 24/7
FPLC	Amersham AKTA System	PROTEOMICS RESOURCE CENTER - (RRB 156)	Completion of appropriate training;
Computing			
Image processing – LSM 510	"LSM 510 v. 3.2" confocal software (Zeiss) (projections, movies, ROI measurements, intensity profiles)	BIO-IMAGING RESOURCE CENTER (DWB 203)	Completion of appropriate training; cardkey access 24/7
Image processing – SoftWoRx	"SoftWoRx" (Applied Precision / DeltaVision) (deconvolution, volume rendering, surface rendering, quantification)	BIO-IMAGING RESOURCE CENTER (DWB 203)	Completion of appropriate training; cardkey access 24/7
Image processing – Imaris	"Imaris" "Surpass" and "FilamentTracer" (Bitplane) (volume rendering in 3D and 4D, surface rendering, measurements, colocalization, clipping planes, 4D tracking, filament tracing)	BIO-IMAGING RESOURCE CENTER (DWB 203)	Completion of appropriate training; cardkey access 24/7
Image processing – Huygens	"Huygens" deconvolution software (SVI) (modules for deconvolving confocal, spinning disk or multiphoton data)	BIO-IMAGING RESOURCE CENTER (DWB 203)	Completion of appropriate training; cardkey access 24/7

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Image processing – MetaMorph	<b>"MetaMorph"</b> (Universal Imaging) (cell counting, tracking, measurements, kymographs)	<a href="#">BIO-IMAGING RESOURCE CENTER (DWB 203)</a>	Completion of appropriate training; cardkey access 24/7
Image processing – Circusoft	<b>"PFRET"</b> software (Circusoft) (sensitized emission FRET analysis)	<a href="#">BIO-IMAGING RESOURCE CENTER (DWB 203)</a>	Completion of appropriate training; cardkey access 24/7
Image processing – Adobe products	<b>Adobe Photoshop</b> and <b>Adobe Premiere</b>	<a href="#">BIO-IMAGING RESOURCE CENTER (DWB 203)</a>	Completion of appropriate training; cardkey access 24/7
Image processing – Red Hat Linux	One linux workstation (using Red Hat linux) is available for deconvolving and processing images collected on the DeltaVision microscope.	<a href="#">BIO-IMAGING RESOURCE CENTER (DWB 203)</a>	Completion of appropriate training; cardkey access 24/7
Cell analysis workstations	FLOW CYTOMETRY RESOURCE CENTER Analysis I, II and PC	<a href="#">FLOW CYTOMETRY RESOURCE CENTER (DWB 202A)</a>	Both <a href="#">FLOW CYTOMETRY RESOURCE CENTER on-line booking system</a> registration and CFS login/password are needed. Cardkey access 24/7
Microarray data analysis	GeneSpring	<a href="#">GENOMICS RESOURCE CENTER (WRB 723)</a>	Cardkey access 24/7
Realtime PCR data analysis	Sequence detection system (SDS)	<a href="#">GENOMICS RESOURCE CENTER (WRB 723)</a>	Cardkey access 24/7
<b>Irradiators</b>			
Cell irradiator	Nordian Cesium cell irradiator	DWB 1 <sup>st</sup> floor	Registered and approved users only; cardkey access, 24/7 (for information, contact labsafety@rockefeller.edu)
Animal X-ray irradiator	<a href="#">RadSource</a> RS-2000	COMPARATIVE BIOSCIENCES CENTER 2 <sup>nd</sup> floor	As part of approved IACUC protocol only; scheduling and access via CBC staff in the main office; training through CBC Vet Services Supervisor (ext. 8526)
<b>Liquid Handling</b>			
Microtiter plate washer with stacker	<a href="#">Biotek EL406</a>	<a href="#">HIGH THROUGHPUT SCREENING RESOURCE CENTER (DWB 210/214/216)</a>	Completion of appropriate training; cardkey access 24/7
Automated High Throughput Pipetting Station	Perkin-Elmer Janus mini	<a href="#">HIGH THROUGHPUT SCREENING RESOURCE CENTER (DWB 210/214/216)</a>	Completion of appropriate training; cardkey access 24/7
Microtiter plate liquid dispenser and stacker	<a href="#">Thermo MultiDrop Combi with Rapidstack</a>	<a href="#">HIGH THROUGHPUT SCREENING RESOURCE CENTER (DWB 210/214/216)</a>	Completion of appropriate training; cardkey access 24/7
Microtiter plate liquid dispenser	<a href="#">Matrix Wellmate</a>	<a href="#">HIGH THROUGHPUT SCREENING</a>	Completion of appropriate training;

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		RESOURCE CENTER (DWB 210/214/216)	cardkey access 24/7
Formulator 96,24-well liquid handler	Formulatrix	STRUCTURAL BIOLOGY RESOURCE CENTER (RRB 363)	Completion of appropriate training; cardkey access only after hours
Phoenix 96-well nano dispenser	Art Robbins	STRUCTURAL BIOLOGY RESOURCE CENTER (RRB 363)	Completion of appropriate training; cardkey access only after hours
Radioactive Materials Handling			
Iodination fume hood	TEDA charcoal filtered hood	LS&EH (WRB A13)	By appointment with LS&EH
Beta scintillation counter	LKB WALLAC Beta Liquid Scintillation Counter, Model 1209	LS&EH (FRS A8)	24/7
Gamma counter	Packard Gamma Counter Model 5530	LS&EH (FRS A8)	24/7
Survey meter (beta)	Various handheld models	LS&EH (FRS A8)	For loan from LS&EH
Survey meter	Various handheld models	LS&EH (FRS A8)	For loan from LS&EH
Sample Quantitation			
Nucleic acid quantitation	NanoDrop -1000	GENOMICS RESOURCE CENTER (WRB 723)	2- minute training; cardkey access 24/7
Nucleic acid quantitation	NanoDrop-8000	GENOMICS RESOURCE CENTER (WRB 723)	Brief training; cardkey access 24/7; \$10 fee per use
Plate Reader			
Luminometer	96 well plate luminometer	MONOCLONAL ANTIBODY CORE FACILITY (MSKCC)	By arrangement with Manager
Multi-function microtiter plate reader with stacker	Biotek Synergy H4	HIGH THROUGHPUT SCREENING RESOURCE CENTER (DWB 210/214/216)	Completion of appropriate training; cardkey access 24/7
Fluorescence microtiter plate reader with built-in dispensing and stacker	Hamamatsu FDSS 6000	HIGH THROUGHPUT SCREENING RESOURCE CENTER (DWB 210/214/216)	Completion of appropriate training; cardkey access 24/7
Microtiter plate reader Scintillation and luminescence	Perkin-Elmer TriLux	HIGH THROUGHPUT SCREENING RESOURCE CENTER (DWB 210/214/216)	Completion of appropriate training; cardkey access 24/7
Multi-function microtiter plate reader	Perkin-Elmer Envision	HIGH THROUGHPUT SCREENING RESOURCE CENTER (DWB 210/214/216)	Completion of appropriate training; cardkey access 24/7
Fluorescence microscope plate reader	Molecular Devices ImageXpress Micro	HIGH THROUGHPUT SCREENING RESOURCE CENTER (DWB 210/214/216)	Completion of appropriate training; cardkey access 24/7
Laser scanning plate reader	Molecular Devices Imagexpress Velo	HIGH THROUGHPUT SCREENING RESOURCE CENTER (DWB 210/214/216)	Completion of appropriate training; cardkey access 24/7
PCR Instrument			

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PCR	Roche LightCycler 480	<a href="#">GENOMICS RESOURCE CENTER (WRB 723)</a>	Completion of appropriate training; cardkey access 24/7
PCR	GeneAmp PCR System 9700 (for 96-well and 384-well plates)	<a href="#">GENOMICS RESOURCE CENTER (WRB 723)</a>	Cardkey access 24/7
<b>Spectroscopy</b>			
NMR Spectrometer	<a href="#">Bruker Avance 600 MHz</a>	<a href="#">SPECTROSCOPY RESOURCE CENTER (RRB 341)</a>	Lab key 24/7
NMR Spectrometer	<a href="#">Bruker DPX 400 MHz</a>	<a href="#">SPECTROSCOPY RESOURCE CENTER (TSH S509)</a>	Cardkey access 24/7
Flourescence spectrometer	<a href="#">Horiba John Yvon Fluorimeter</a>	<a href="#">HIGH THROUGHPUT SCREENING RESOURCE CENTER TSH SB30)</a>	Cardkey access 24/7
Fourier Transform Infrared Spectrometer	<a href="#">Nicolet Magna IR-560</a>	<a href="#">HIGH THROUGHPUT SCREENING RESOURCE CENTER (TSH SB30)</a>	Completion of appropriate training; cardkey access 24/7
Circular Dichroism Spectrometer	<a href="#">Aviv 202 Circular Dichroism Spectrometer</a>	<a href="#">HIGH THROUGHPUT SCREENING RESOURCE CENTER (TSH SB30)</a>	Completion of appropriate training; cardkey access 24/7
Surface Plasmon Resonance	<a href="#">Biacore Surface Plasmon Resonance Instrument</a>	<a href="#">HIGH THROUGHPUT SCREENING RESOURCE CENTER (DWB 210/214/216)</a>	Completion of appropriate training; cardkey access 24/7
Mass Spectrometer	<a href="#">PerSeptive Voyager DE STR MALDI-TOF Mass Spectrometer</a>	<a href="#">PROTEOMICS RESOURCE CENTER (RRB 151)</a>	Completion of appropriate training; cardkey access 24/7
<b>X-ray Diffraction</b>			
Microscope, UV for crystal screening	JanScientific	<a href="#">STRUCTURAL BIOLOGY RESOURCE CENTER (RRB 327)</a>	Completion of appropriate training; cardkey access only after hours
Formulator 24,96-well liquid handler	Formulatrix	<a href="#">STRUCTURAL BIOLOGY RESOURCE CENTER (RRB 363)</a>	Completion of appropriate training; cardkey access only after hours
Phoenix 96-well nano dispenser	Art Robbins	<a href="#">STRUCTURAL BIOLOGY RESOURCE CENTER (RRB 363)</a>	Completion of appropriate training; cardkey access only after hours
Macromolecular Crystallography	<a href="#">Rigaku/MSC microMax 007 HF or HR optics with RaxisIV++ imageplate</a>	<a href="#">STRUCTURAL BIOLOGY RESOURCE CENTER (RRB 327)</a>	Completion of appropriate training; cardkey access only after hours
	UV microscope for protein crystal inspection – JANSi UVEX	<a href="#">STRUCTURAL BIOLOGY RESOURCE CENTER (RRB 363)</a>	Completion of appropriate training; cardkey access only after hours
<b>Tissue Culture/Animal Prep</b>			
Biological Safety Cabinet	Baker Class II 4'- For live animal and live cell imaging prep work	<a href="#">BIO-IMAGING RESOURCE CENTER (DWB 201)</a>	By arrangement with the BIO-IMAGING RESOURCE CENTER Director
Biological Safety Cabinet	Baker Class II 4'- For live animal and live cell imaging prep work	<a href="#">BIO-IMAGING RESOURCE CENTER (DWB 202B)</a>	By arrangement with the BIO-IMAGING RESOURCE CENTER Director
Incubator with CO2	For temp storage of live cell samples	<a href="#">BIO-IMAGING RESOURCE CENTER</a>	By arrangement with the BIO-

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	for imaging	(DWB 201)	IMAGING RESOURCE CENTER Director
Incubator without CO2	For temp storage of live cell samples for imaging	BIO-IMAGING RESOURCE CENTER (DWB 201)	By arrangement with the BIO-IMAGING RESOURCE CENTER Director
Imager and Electrophoresis Units			
Fluorescence/phosphor autoradiography/chemiluminescence	Amersham Biosciences Typhoon 9400 Variable Imager	PROTEOMICS RESOURCE CENTER (RRB 156)	Completion of appropriate training; cardkey access 24/7
Isoelectric focusing system	Pharmacia Multiphor II Isoelectric focusing system	PROTEOMICS RESOURCE CENTER (RRB 156)	Completion of appropriate training; cardkey access 24/7
Electrophoresis system	Pharmacia Ettan DALTsix electrophoresis system	PROTEOMICS RESOURCE CENTER (RRB 156)	Completion of appropriate training; cardkey access 24/7
Sonicator			
Sonicator	Covaris S2	GENOMICS RESOURCE CENTER (WRB 723)	Completion of appropriate training; cardkey access 24/7
Scanner			
Glass Slide Scanner	Agilent High Resolution DNA Microarray Scanner	GENOMICS RESOURCE CENTER (WRB 729)	Completion of appropriate training; cardkey access 24/7