

Basic Science Equipment List

Equipment	Recharge	Core/ Shared	Individual/ Limited Use	Special Use Contact PI	Department	Location	Contact
RECHARGE AVAILABLE							
CA Primate Research Center	X					Primate Ctr	http://www.cnprc.ucdavis.edu/
NMR Mass Spec Facility	X					MSID	http://www.nmr.ucdavis.edu/
Mouse Biology Facility	X					2795 2nd St., Suite 400	http://www.mousebiology.org/
Fluorescence Activated Cell Sorter	X						
Proteomics Core	X				Genome	1414 GBSF	http://www.proteomics.ucdavis.edu/
DNA Technologies Core Facility	X				Genome	Genome	http://genomecenter.ucdavis.edu/dna_technologies
Expression Analysis Core Facility	X				Genome	Genome	http://genomecenter.ucdavis.edu/expression_analysis
Metabolomics Core Facility	X				Genome	Genome	http://www.metabolomics-core.ucdavis.edu/
Bioinformatics Core Facility	X				Genome	Genome	http://bioinformatics.ucdavis.edu/
Microarray Core Facility	X				Microbiology	Tupper Hall	http://www.ucdmc.ucdavis.edu/medmicro/microarray.html
Coccidioidomycosis Serology Lab	X				Microbiology	Tupper Hall	http://www.ucdmc.ucdavis.edu/medmicro/cocci.html
Diagnostic & Research Electron Microscopy Lab	X				Pathology	Tupper Hall	http://www.ucdmc.ucdavis.edu/pathology/research/research_labs/electron_microscopy/
ARCTURUS XT LASER CAPTURE		X			Microbiology	5212 GBSF	(Microarray Core; Satya Dandekar, Ph.D.)
Alpha Innotech FLUORCHEM FC2 Imaging System	X				Microbiology	Tupper Hall	Demo Pappagianis/Suzanne Johnson
ICYS Research System	X				Microbiology	Tupper Hall	Janine LaSalle
CENTRIFUGATION							
Sorvall WX80 ultracentrifuge		X			Pharmacology	3409 GBSF	Julie Bossuyt
Sorvall RC6 Plus centrifuge		X			Pharmacology	3409 GBSF	Julie Bossuyt
Fridge for rotors		X			Pharmacology	3409 GBSF	Julie Bossuyt
Sorvall table top centrifuge		X			Pharmacology	3409A GBSF	Elva Diaz
Microcentrifuge (2)		X			Pharmacology	3409 GBSF	Angie Gelli
Beckman refrigerated microcentrifuge		X			Pharmacology	3409 GBSF	Angie Gelli
Optima TLX ultracentrifuge benchtop (+ 2 rotors)		X			Pharmacology	3409 GBSF	Julie Bossuyt
Thermo Scientific Legend XTR Centrifuge		X			Pharmacology	2206 Tupper	Johannes Hell
Fiberlite 24x1.5mL rotor (compatible with Beckman Ultracentrifuge)		X			Pharmacology	2206 Tupper	Johannes Hell
Fiberlite 8x39mL rotor (compatible with Beckman Ultracentrifuge + adapters which allow 8x13.5mL)		X			Pharmacology	2206 Tupper	Johannes Hell
BECKMAN L7 PREP/ULTRACENTRIFUGE, WATER-COOLED					Biochemistry	4020 Tupper	
BECKMAN L7 PREP/ULTRACENTRIFUGE, FREON-COOLED					Biochemistry	4020 Tupper	
Ultracentrifuge rotors					Biochemistry	4411 Tupper	
RC5B CENTRIFUGE,SUPERSPEED, 20,000 RPM					Biochemistry	4411 Tupper	
RC5B REFRIGERATED CENTRIFUGE, SUPERSPEED					Biochemistry	4405 Tupper	
RC3B REFRIGERATED CENTRIFUGE, 6000 RPM					Biochemistry	4040 Tupper	
Centrifuge, micro 14000 RPM			X			Tupper Hall	Roy Curry
Centrifuge, micro 14000 RPM			X			Tupper Hall	Pete Cala
Eppendorf refrigerated centrifuge		X				Tupper Hall	Crina
Centrifuge, microprocessor-controlled brushless superspeed, refrigerated			X			Tupper Hall	John Payne
Sorval RC-5C superspeed centrifuge with rotors			X		Physiology	1111 Life Sciences	Jim Trimmer
Sorvall RCM150 SE micro-ultracentrifuge with rotors			X		Physiology	1111 Life Sciences	Jim Trimmer
Beckman Coulter Ultracentrifuge			X		Physiology	Tupper Hall	Room 4010A
Sorval RC5 super speed			X		Physiology	Tupper Hall	Room 4010A
Sorvall RC5B Centrifuge			X		Microbiology	Tupper Hall	Room 3135

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Sorval RC3B			X		Physiology	Tupper Hall	Room 4030A
ELECTROPHYSIOLOGY							
Pipette puller (HEKA)				X	Pharmacology	3409B GBSF	Heike Wulff
Pipette puller (List Medical)				X	Pharmacology	3409B GBSF	Angie Gelli
Pipette puller (Sutter Inst.)				X	Pharmacology	3617 GBSF	Julie Bossuyt
Microfuge				X	Pharmacology	3409B GBSF	Heike Wulff
Analytical scale				X	Pharmacology	3409B GBSF	Heike Wulff
Osmometer				X	Pharmacology	3409 GBSF	Heike Wulff
Patch clamp rig (2)				X	Pharmacology	3409B GBSF	Heike Wulff/Angie Gelli
Pipette Puller		X				Tupper Hall	ICR
Pipette Puller			X			Tupper Hall	Yu-Fung Lin
Microforge with Manipulator			X		Physiology	Tupper Hall	Yu-Fung Lin
Microforge for Patch Pipettes			X		Physiology	Tupper Hall	Jie Zheng
MICROSCOPES							
Zeiss Lumar V12 Fluorescent Dissecting Microscope			Yes		Anatomy	Tupper Hall	Paul FitzGerald
Zeiss Axiovert 200M Inverted Fluorescence microscope			Yes		Anatomy	Tupper Hall	Paul FitzGerald
Nikon YTHS 2-headed brightfield/phase teaching microscope			Yes		Anatomy	Tupper Hall	Paul FitzGerald
Nikon SMZ800 teaching dissecting microscope, with live digital output			NEI/Shared		Anatomy	Tupper Hall	Paul FitzGerald
NEI Microscopy Core			NEI/Shared		Anatomy	Tupper Hall	Paul FitzGerald
Leica EM UC6 Ultramicrotome for cutting thin sections for electron microscopy			NEI/Shared		Anatomy	Tupper Hall	Paul FitzGerald
Leica RM2125RT microtome for cutting paraffin sections			NEI/Shared		Anatomy	Tupper Hall	Paul FitzGerald
Olympus Confocal Microscope	X				Anatomy	Tupper Hall	Gordon Douglas/Qizhi Gong
Zeiss Axovert S100 Inverted Microscope	X				Physiology	4139 Tupper	Roger Adamson
FRET/TIRF epifluorescence microscope		X			Pharmacology	3605 GBSF	Julie Bossuyt
Olympus FV 1000 confocal microscope				X	Pharmacology	3605 GBSF	Julie Bossuyt
TIRF/FRAP imaging system Olympus				X	Pharmacology	3605 GBSF	Julie Bossuyt
Zeiss Axioplan2 + digital camera				X	Pharmacology	3409C GBSF	Elva Diaz
Olympus IX-70 inverted epifluorescence microscope				X	Pharmacology	2430 Tupper Hall	Johannes Hell
Zeiss Stemmi 2000 dissection scopes (2)				X	Pharmacology	3409D GBSF	Elva Diaz
Fully Automatic Fluorescence microscope, designed to conduct FRET measurements of live cells, system includes Olympus IX-81 motorized epifluorescence microscope, high resolution CCD camera, spectograph, etc.			X		Physiology	Tupper Hall	Room 4134, Jie Zheng
Inverted microscope with inclined binocular			X			Tupper Hall	Pete Cala
Fuji LAS-4000 imaging system			X		Physiology	Tupper Hall	
Zeiss Axioplan2				X	Microbiology	Tupper Hall	Janine LaSalle
Various microscopes for brightfield and fluorescence imaging			X		Physiology	1111 Life Sciences	Jim Trimmer
MOLECULAR BIOLOGY							
GE Healthcare Gel/Chem Luminescent Blot/Plate reading Documentation system			Yes		Anatomy	Tupper Hall	Paul FitzGerald
Beckman/Coulter Optima Max XP Table Top Ultracentrifuge with fixed angle (MLA130)and swinging bucket (TLS 55) rotors (volumes less than 2 ml, with adapters for smaller volumes), up to 1 million x g			Yes		Anatomy	Tupper Hall	Paul FitzGerald
Bio-Rad Electroporator			X		Pharmacology	3409A GBSF	Angie Gelli
Biolistic Particle Delivery system			X		Pharmacology	3409A GBSF	Angie Gelli
UVP Gel documentation system		X			Pharmacology	3409 GBSF	Rick Tham (Gelli Lab)
UVP Gel documentation system		X			Pharmacology	3605 GBSF	Julie Bossuyt
Stratagene RoboCycler PCR machine			X		Pharmacology	3409A GBSF	Rich Tham (Gelli Lab)

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Eppendorf Master Cycler PCR machine			X		Pharmacology	3409A GBSF	Rich Tham (Gelli Lab)
MJ PCR Machine			X		Pharmacology	3409A GBSF	Diaz Lab
Nanodrop spectrophotometer			X		Pharmacology	3409 GBSF	Julie Bossuyt
Amaxa electroporator		X			Pharmacology	3409 GBSF	Julie Bossuyt
Eppendorf Master Cycler PCR machine			X		Pharmacology	2430 Tupper	Johannes Hell
Spectrophotometer			X		Pharmacology	3409 GBSF	Diaz Lab
Thermomixer (2mL and 0.5mL)			X		Pharmacology	3605 GBSF	Julie Bossuyt
Beckman DU640 Spectrophotometer			X		Biochemistry	4040 Tupper	
Beckman DU640B Spectrophotometer, Scanning			X		Biochemistry	4312 Tupper	John Voss
Spectrophotometer, Scanning, Beckman Instrument DU 640		X			Microbiology	Tupper Hall	Suzanne Johnson
Microplate Reader, Versamax Andpctramax				X	Microbiology	Tupper Hall	Suzanne Johnson
Spectrophotometer, UV/VIS, 180-900 NM, Double Beam			X		Biochemistry	4326 Tupper	Tom Jue
Spectrofluorometer/Photon Counting, W/Reference			X		Biochemistry	4424 Tupper	John Voss
Hitachi F2000 Fluorescence Spectrofluorometer			x		Physiology	Tupper Hall	Peter Cala
Lightcycler 2.0 Instrument W/ LC Probe		X		X	Microbiology	5605A GBSF	Charles Bevins
Chemiluminescence, & Visible Imaging System, Alpha Innotech			X		Biochemistry	4406 Tupper	
Amaxa nucleofector electroporation machine			X		Physiology	1111 Life Sciences	Jim Trimmer
PROTEIN WORK/PROTEOMICS/METABOLOMICS							
EPR Machine (on order)		X			Anatomy	Tupper Hall	John Voss/Paul FitzGerald
Konica Minolta SRX-101A film developer		X			Pharmacology	2206P Tupper Hall	Johannes Hell
Multimodality Microplate Reader			X		Pharmacology	3605 GBSF	Julie Bossuyt
HPLC				X	Pharmacology	3409A GBSF	Heike Wulff
LCQ Mass Spec				X	Pharmacology	3409A GBSF	Heike Wulff
Bio Tek synergy2 plate reader			X		Pharmacology	2430 Tupper Hall	Johannes Hell
Spectrophotometer SLM Aminco - w/control console, monochromators, light source, etc			X		Pharmacology	3617 GBSF	Julie Bossuyt
RADIOACTIVE							
LIQUID SCINTILLATION COUNTER			X		Biochemistry	4302 Tupper	
STORM Phosphorimager			X		Biochemistry	4302 Tupper	
FILM PROCESSOR			X		Biochemistry	4302 Tupper	
Packard Liquid Scintillation Counter			X		Physiology	Tupper Hall	Room 4213
Packard Gama Counter			X		Physiology	Tupper Hall	Room 4213
TISSUE AND CELL CULTURE							
Open air shaker (37°C)		X			Pharmacology	3415 GBSF	Diaz Lab
CO2 Incubators (3)			X		Pharmacology	3409C GBSF	Rick Tham (Gelli Lab)/Diaz Lab
Coulter cell counter		X			Pharmacology	3409 GBSF	Diaz Lab
Warming/Cooling Thermo Scientific MaxQ500 bacterial shaker			X		Pharmacology	2206 Tupper Hall	Johannes Hell
Thermo Scientific 1300 Series A2 tissue culture hood			X		Pharmacology	2206K Tupper Hall	Johannes Hell
Transjector 5246 eppendorf system				X	Pharmacology	3617 GBSF	Julie Bossuyt
CO2 Incubator-Cell Tissues, Digital, W/CO2 Auto-			X		Biochemistry	4406 Tupper	John Hershey
CO2 Incubator-Cell Tissues, Digital, W/CO2 Auto-			X		Biochemistry	4406 Tupper	John Hershey
Shaker/Incubator, 25-400 Orbits/MIN, 0-60DEG C,			X		Biochemistry	4406 Tupper	John Hershey
Cabinet,BiologicalSafety,Class II,Type A/B3, 4 FT,			X		Biochemistry	4302 A Tupper	Tom Jue

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Incubator, O2/CO2, Automatic, Dual Chamber,			X		Biochemistry	4302 A Tupper	Tom Jue
Microscope,Diaphot,Binocular,W/RV Stage,Lamphouse			X		Biochemistry	4302 A Tupper	Tom Jue
TISSUE PROCESSING							
Critical point Dryer for Scanning Electron Microscopy			Yes		Anatomy	Tupper Hall	Paul FitzGerald
Leica CM3050 Cryostat			NEI/Shared		Anatomy	Tupper Hall	Paul FitzGerald
Cryostat			X		Pharmacology	3409 GBSF	Diaz Lab
Cryostat, Leica CM1850			X		Microbiology	5605A GBSF	Satya Dandekar
Cryostorage system				X	Pharmacology	3409 GBSF	Heike Wulff
Sonicator (probe)			X		Pharmacology	3617 GBSF	Julie Bossuyt
Polytron homogenizer			X		Pharmacology	3617 GBSF	Julie Bossuyt
Motorized dounce homogenizer			X		Pharmacology	3617 GBSF	Julie Bossuyt
Leica TV 1000S vibratome			X		Pharmacology	2136 Tupper Hall	Johannes Hell
Brandel Tissue harvester			X		Pharmacology	3617 GBSF	Julie Bossuyt
GENERAL LABORATORY							
Single Arm System - 8 Pipettor Robot			X		Biochemistry	4305 Tupper	Michael Holland
Geneamp PCR System			X		Biochemistry	4324 Tupper	Tom Jue
Cell Disruptor, Basic-Z Cell Disruptor System			X		Biochemistry	4109 ? Tupper	John Voss
Sonicator Ultrasonic Processor			X		Biochemistry	4040 Tupper	
Speed-Vac-Concentration System			X		Biochemistry	4427 Tupper	John Voss
Lyophilizer station			X		Biochemistry	4020 Tupper	
Acta Purification System			X		Biochemistry	Briggs Hall	John Hershey
HPLC w fluorescence detector			X		Biochemistry	4109 Tupper	John Voss/Rick Troy
Blood Gas Analyzer,Novation ABL705 Multi-Profile System			X		Biochemistry	4324 Tupper	Tom Jue
Water distilling system		X	X		Biochemistry	4406 Tupper	John Hershey
Infors multitron shaker (2)			X		Physiology	Tupper Hall	Room 4030A
Osmometer			X		Physiology	Tupper Hall	Roy Curry
Osmometer			X		Physiology	Tupper Hall	Pete Cala
Osmometer			X		Physiology	Tupper Hall	Martha O'Donnell
Peristaltic Pump			X		Physiology	Tupper Hall	Pete Cala
Gamma Counter		X			Physiology	Tupper Hall	ICR
Chromatography, Injector inlet/system		X			Physiology	Tupper Hall	ICR
Film Recorder And Imaging Driver		x			Microbiology	3229 Tupper	Kathy Blaisdell, Sally Harmsworth , Satya Dandekar
Spectrophotometer/Photometer includes absorption meter		X			Physiology	Tupper Hall	Crina
STORAGE							
Liquid Nitrogen Auto Storage & Tank			X		Biochemistry	4406 Tupper	
Chest Revco, 17 CU FT			X		Microbiology	3217 Tupper	Kathy Blaisdell, Sally Harmsworth , Satya Dandekar
2 Liquid Nitrogen Supply Tanks			X		Biochemistry	4136A Tupper	
Dry Ice			X		Biochemistry	4136A Tupper	
9 Freezers -80C			X		Biochemistry	4136A Tupper	
Backup -20C freezer			X		Biochemistry	4040 Tupper	
Controlled temp incubator cabinet			X		Biochemistry	4040 Tupper	Paul Hagerman