

RTI Shared Equipment	Location	Lab
Bioanalyzer (Agilent 2100 Electrophoresis Bionanalyzer)	AS4-1031	RTI dept
Bioreactor ChemGlass 15L with Co2 and temperature controllers	AS4-2004A	Zamore
Bioruptor Pico Sonicator-Diagenode	AS5-2004A	Pai
Biosafety cabinet	AS4-1029	Watts
Biosafety Cabinets (2) - NuAire Class II type A/B3	AS4-1010A	Moore
Biosafety Cabinets (2) - Thermo 1300 series A2, 6ft	AS4-1028	Khvorova
Biosafety carbinet (2) - Thermo 1300 series A2	AS4-2027	Aronin
Biosafty Cabinets (2) - NuAire Class II type A/B3	AS4-2025	Zamore
Biosafty Cabinets (Thermo 1300 series A2, 6ft)	AS5-2007A	Sontheimer
Biosafty Cabinets (Thermo 1300 series A2, 6ft)	AS5-2028	Sontheimer
Biosafty Cabinets,Thermo 1300A2 (2x 4ft)	AS4-2012A	Xue
Cell counter -CountessII FL	AS5-2004	Pai
Cell counter Countess (with GFP light cube)	AS4-1010A	Garber
Cell Transfection System -Neon® Invitrogen	AS5-2003A	Pai
Centrifuge - Qiagen Sigma 1K15C refrigerated Benchtop (swingbucket)	AS4-1017A	Grunwald
Centrifuge - Sorvall Legend XTR tabletop 4500rpm (swingbucket)	AS4-1002A	Korostelev
Centrifuge -Beckman Avanti J-26XP with Elutriator	AS4-2020	RTI-Zamore
Centrifuge Beckman Allegra X-15R (swingbucket)	AS4-1028	Khvorova
Centrifuge Beckman Avanti J-E High speed floor (2 rotors)	AS4-1024	Korostelev
Centrifuge High speed floor - Sorvall RC-6+ (4x1000,6x250,8x50ml)	AS5-2020	RTI-Mello
Centrifuge High speed floor - Sorvall RC-6+ (F10S 4x1000, F21S 8x50Y)	AS4-2020	RTI dept
Centrifuge Low speed floor - Sorvall RC 4 (LH-4000)	AS5-2020	RTI-Mello
Centrifuge Low speed floor - Sorvall RC 4 (LH-4000)	AS4-2020	RTI dept
Centrifuge Ultra - Beckman L-90K floor model (SW32Ti, SW41Ti, 45Ti,	AS4-1024	RTI-Korostelev
Centrifuge Ultra - Beckman Optima Max-TL table top	AS4-2020	RTI dept
Centrifuge Ultra - Beckman XE-90 floor model (SW32Ti, SW55Ti, 70Ti)	AS4-1024	RTI dept
Centrifuge- Sorval Legend X1R tissue culture pkg	AS4-2012A	Xue
centrifuge-table top, Eppendorf 5810R	AS5-2028	Sontheimer
centrifuge-table top, Eppendorf centrifuge 5424R	AS5-2007	Sontheimer
Centrifuge-Thermo Legend X1R refrigerated	AS4-1010A	Garber
CO2 incubator (2) - Eppendorf New Brunswick Galaxy 170R	AS4-2025	Zamore
CO2 incubator (2) - Revco Ultima, Thermo	AS4-2027	Aronin
CO2 incubator, air jacketed (HERA cell vios 160i)	AS5-2007A	Sontheimer
CO2 incubator, air jacketed (HERA cell vios 160i)	AS5-2028	Sontheimer
CO2 Incubators (2) - Revco	AS4-1010A	Moore
CO2 incubators (2) - Thermo	AS4-1028	Khvorova
CO2 incubators (2) - Thermo Napco 8000	AS4-1029	RTI dept
CO2 incubators,NAPCO 8000 (2)	AS4-2012A	Xue
Covaris focused ultra-sonicators shearer - E220	AS4-2005A	Zamore
Crystal robot - ARI Gryphon	AS4-1033	RTI dept
Digitizer -3D MakerBot Digitizer	AS4-1018	Grunwald
DNA/RNA synthesizer - ABI	AS4-1005A	Watts
DNA/RNA synthesizer - ABI Expidite 8909	AS4-1016A	Khvorova
DNA/RNA synthesizer MerMade8	AS4-1015A	Khvorova
Fast Prep - 24	AS5-1013A	Mello
Flow Cytometer - BD Biosciences Accuri C6	AS4-2005A	Zamore
FPLC - AKTA purifier chromatography system	AS4-1013A	Khvorova
FPLC - AKTAexplorer chromatography system	AS4-2002A	Zamore
FPLC - AKTAexplorer10 chromatography system	AS4-1001A	Korostelev
FPLC - Bio-Rad BioLogic DuoFlow Chromatography Systems	ask	Mello
FPLC - Bio-Rad Biologic LP (low-pressure, gradient chromatography sy	AS4-2026	Zamore
FPLC -Biotage- Purification	AS4-1006A	Watts
FPLC system	AS4-1035	RTI dept
Freezer -80 C backup	AS4-1024	RTI dept
Freezer -80 C backup	AS5- 2020	RTI dept
Gel Dryer Bio-Rad 583	AS4-1008A	Moore

Gel dryer BioRad Double deck , Model 583	AS5-2006A	Sontheimer
Gel Dryers Thermo SGD5040 (3)	AS4-2002A	Zamore
Gradient Fractionation System	AS4-1011A	RTI dept
Gradient Fractionator - ISCO Teledyne Foxy Jr with UA-6 absorbance	AS4-1035	Moore
Gradient Fractionator - ISCO Teledyne IMHO 640 with UA-5 absorbance	AS4-2002A	Zamore
HPLC Agilent preparative HPLC	AS4-1016A	Khvorova
HPLC - Analytical-semi-prep Agilent 1260 infinite	AS4-1005	Watts
HPLC - Analytical-semi-prep (2) Agilent 1260 infinite	AS4-1016A	Khvorova
HPLC - HP 1100 series	AS4-1016A	RTI dept
HPLC - Perseptive Biosystem BioCAD/Sprint (nonrefrigerated)	AS4-2002A	Zamore
HPLC - prep Agilent 1100 infinite	AS4-1005	Watts
HPLC - prep Agilent 1100 infinite	AS4-1006	Watts
Hybridization Oven IsoTemp	AS4-2002A	Zamore
Imager - Bio-Rad ChemiDoc	AS4-2014A	Mello
Imager - BioRad VersDoc (incl red, green filters)	AS4-2028	RTI dept
Imager - Fuji Luminescent Image Analyzer	AS5-1013A	Mello
Imager - GE LAS 4000 imaging system	AS4-2028	RTI dept
imager - Kodak imaging system	AS5-2003A	Pai
Imaging system - Li-Cor Odyssey Infrared	AS4-2002A	RTI dept
Incubator - Crystallographic (16C) - Thermo Precision	AS4-1001A	Korostelev
Incubator for microbiology - Isotemp Gravity 30 C	AS4-1024	RTI dept
Incubator for microbiology - Isotemp Gravity 37 C	AS4-1024	RTI dept
K100X glow discharge	AS4-1001A	Korostelev
Karl fisher titrator - Metrohm 899 Coulometer	AS4-1013A	Khvorova
LC-MS - Thermo Finnigan LCQ Deca XP Plus Mass Spectrometer	AS4-1024	Khvorova
LCMS Agilent QTOF LCMS system	AS4-1023	Khvorova
LifeTechnologies E-Gel x 2	AS4-1011	Garber
Liquid Scintillation Counter - PerkinElmer Tri-Carb 2910	AS4-2028	RTI dept
Luminometer - GlowMax Multi with injectors	AS4-2007	Aronin
Luminometer - Turner veritas with injectors	AS4-2005A	Zamore
Lyophilizer - FreeZone Plus 2.5 Liter cascade Benchtop Freeze Dry Sys	AS4-1031	RTI dept
M900 easydip slide staining system	ask	Khvorova
Maxwell 16 - (extracts DNA&RNA from tissue) Promega	AS4-2008	Aronin
Microfluidizer - Microfluidics M-110PS cell disruptor	AS4-2020	RTI-Zamore
Microplate Reader - BioTek Eon (absorbance)	AS4-1031	RTI dept
Microplate Reader - Molecular Devices SpectraMax M5 (Ab/FL/Lumin)	AS4-1031	RTI dept
Microplate Reader - Tecan Infinite M1000 Pro (Ab/FL/Lumin/FP/Nand	AS4-1031	RTI dept
Microplate reader- AccuSkan	AS4-1006	Watts
Microscope - EVOS fluorescent	ask	Mello
Microscope - for Crystals Leica TL RCI w/M205	AS4-1033	Korostelev
Microscope - Inverted Nikon Eclipse TS100	AS4-2007A	Aronin
Microscope - Leica DMI8 Inverted Fluorecent	AS4-1032	RTI-Zamore
Microscope - Motic AE 2000 (GFP, CY3, DAPI, YFP)	AS4-1028	Khvorova
Microscope - Nikon Eclipse Ti - inverted Epi-fluorescent	AS4-2011A	RTI dept
Microscope - Nikon Injection scope	AS5-2025	Mello
Microscope - Olympus TIRF	AS4-1024A	RTI dept
Microscope - TIRF	S5-212	Zamore/Mello
Microscope - Upgrade Olympus IX-71 Deltavision Deconvolving	SCOPE Imaging center	RTI dept
Microscope - Upright Nikon Eclipse E600	AS4-2007A	Aronin
Microscope - Zeiss Axioplan 2 GFP scope	AS5-2025A	Mello
Microscope - Zeiss Axiovert 200M Confocal Microscope	AS5-2025B	Mello
Microscope - ZEISS Invertaskop	AS4-1029	RTI dept
Microtome - Leica VT1000S	AS4-2027	Aronin
Mixer Mills - Retsch (PM100, MM301)	AS4-1012A	Moore
Nano drop - Thermo	AS4-1005	Watts
NanoDrop 2000C	AS4-1001A	Korostelev
NanoDrop OneC	AS4-2005A	Zamore

Needle Puller- Narishige Japan PN-30	AS5-2025B	Mello
Nexcelom Bioscience Cellometer Auto1000	AS4-1028	Khvorova
Nucleofector - Amaxa	AS4-1010A	Moore
Oligo Synthesizer GE ÅKTA Oligopilot 100 system	AS4-1016A	Khvorova
Osmometer Freezing Point (for 50 uL sample)-Precision Systems µOS	AS4-1017	Grunwald
Oven - Baking Oven	AS4-2037	RTI-Zamore
Oven - Hybridization Oven	AS4-1008A	Moore
Oven - Hybridization Oven UVP HB-1000	AS4-2003A	Zamore
PCR - Bio-Rad C1000	AS4-1031	RTI dept
PCR - Bio-Rad Real Time CFX96	AS4-1031	RTI dept
PCR - BioRad C1000 (2)	AS4-2027	Aronin
PCR - BioRad C1000Touch	AS4-2002	Zamore
PCR - BioRad C1000Touch	AS4-2003	Zamore
PCR - BioRad C1000Touch	AS4-2006	Zamore
PCR - MJ (3, two PTC-100,one PTC200)	AS4-2001	Zamore
PCR - QuantStudio 5 Real Time PCR	AS5-2013	Mello
PCR - Real Time Bio-Rad CFX96 Touch	AS4-1031	RTI dept
PCR - Real Time Bio-Rad CFX96	AS4-2001A	Zamore
PCR - Real Time Eppendorf Realplex Mastecycler	AS4-1031	RTI dept
PCR Eppendorf Mastercycler Pro PCR machines x2	AS4-1011	Garber
PCR-Veriti® 96-Well Thermal Cycler (4)	AS4-2010A	Xue
Peptide synthesizer 433A ABI	AS4-1016A	Khvorova
Phosphorimager-Typhoon FLA7000	AS4-2028	RTI dept
PhosphorImager - Fuji FLA 9500 Typhoon laser bio-imaging Scanner	AS4-2028	RTI dept
Photoreactor (UVA & UVC) - Luzchem LZC-4X with timer and portable	AS4-1015A	Khvorova
PippinHT	AS4-1011A	RTI dept
Plasma cleaner - basic	AS4-1010A	Moore
Plate washer Biotek EIX405 Auto	AS4-1015	Khvorova
PNA synthesiser - Expedite	AS4-1005A	Watts
Printer-3D MakerBot Replicator desktop 3D printer	AS4-1018	Grunwald
Qiagen TissueLyser II	AS4-1016	Khvorova
QuantiGene ovens	ask	Khvorova
Qubit Fluorometer	AS4-1017	Grunwald
Qubit Fluorometer	AS4-1011	Garber
R3 Rotavapor with heating bath, C-condenser, STJ 24/40 evaporating	AS4-1014A	Khvorova
Refractometer- Projection Abbe ,Edmund Optics WY1A	AS4-1017	Grunwald
Rotavapor (2)	AS4-1006A	Watts
Sequencing System - Illumina NextSeq500	AS5-2029	RTI-Zamore
Shaker - Eppendorf New Brunswick Innova 44	AS4-1024	RTI-dept
Shaker - Eppendorf New Brunswick Innova 44	AS4-1024	Korostelev
Shaker - Eppendorf New Brunswick Innova 44R	AS4-1024	RTI dept
Shaker - Eppendorf New Brunswick Innova Double 44/44R	AS5-2020	Sontheimer
Shaker - Eppendorf New Brunswick Innova Double 44/44R	AS4-1024	RTI dept
Shaker - Thermo MAXQ 8000 - 443/493 Triple incubator shaker	AS5-2020	RTI-Mello
Solvent purification/drying system with 5 ports	AS4-1014A	Khvorova
Sonicator - Bioruptor	AS5-2020A	Mello
Sonicator - Branson D250	AS4-1009A	Moore
Sonicator - Branson D450 (cup horn)	AS4-2028	RTI dept
Sonicator - Fisher model 120 sonic dismembrator	AS4-2028	RTI dept
Special Vibration Table and custom built computer/microscope	AS4-1018A	Grunwald
Spectrophotometer Cary UV/ - Agilent	AS4-1005	Watts
Speed Vac - thermo	AS4-1031	Watts
Speed Vac Concentrator SPD111V	AS5-2006A	Sontheimer
SpeedVac - Savant DNA120	AS4-1031	Khvorova
SpeedVac - Savant SC110 with RVT400	AS4-1008A	Moore
SpeedVac - Thermo Savant SPD121P with RVT	AS4-2002A	Zamore
SpeedVac - Thermo Savant SPD131DDA with RVT400	AS4-1031	RTI dept

SpeedVac -Thermo	AS4-1005A	Watts
Stereomicroscope	AS4-1034	Korostelev
Stereomicroscope - Leica MS5 Stereomicroscope (2)	AS4-2006A	Zamore
Stereomicroscope - Leica MZ6 Stereomicroscope (3)	AS4-2006A	Zamore
Stereomicroscope - Leica MZFLIII with Spot RT3 CCD camera (Monoc)	AS4-2006A	Zamore
Stereomicroscope - Nikon SMZ645	AS4-2025	Zamore
Stereomicroscope - SZX-16 Olympus	AS4-1033	Moore
Stereomicroscope - Zeiss Discovery Stereo GFP scope	AS5-2025A	Mello
Stereomicroscope, Leica M3Z	AS4-1018	Grunwald
Teledyne Rf 200 Combiflash, flash purification system	AS4-1015A	Khvorova
Tissue Slicer (oscillating)- EMS OTS-5000	AS4-2027	Aronin
UV box	AS4-1009A	Moore
UV box	AS5-1014A	Mello
UV box- Spectroline UV Transilluminator	AS4-1017	Grunwald
UV Crosslinker with 254nm and 368nm bulbs	AS5-2014	Mello
UV Spectrophotometer - Agilent	AS4-1011A	Moore
UV Spectrophotometer - Agilent Varian Cary 50	AS4-2028	RTI dept
UV Spectrophotometer - Beckman DU640 w/melting capabilities	AS4-2002A	Zamore
UV Spectrophotometer-Nanodrop 1000	AS4-1011A	Moore
UV Spectrophotometer-NanoDrop ND-1000	AS5-2013	Mello
UV Spectrophotometer-NanoPhotometer P300 UV/Vis spectrophotom	AS5-2028	Sontheimer
UV Stratalinker	AS5-2014	Mello
UV stratalinker 1800 Stratagene	AS4-1008A	Moore
UV Stratalinker 2400 Stratagene	AS4-2003A	Zamore
Viscosimeter (rotational type)- Brookfield LVDV3T Rheometer	AS4-1017	Grunwald
Water system - Barnstead GenPure xCAD Plus UV/UF-TOC Wal	AS5-2008	RTI dept
Water system - Barnstead GenPure xCAD UV/UF-TOC	AS4-1037	RTI dept
Water system - Barnstead Nanopure	AS4-1001	Korostelev
Water system - Milli-Q Synthesis	AS4-2002	Zamore

Note:

RTI departmental equipment is open to all in RTI with equal privilege. If you need help or found a problem, please call

Hongyan Wang at x53684 or email Hongyan.wang@umassmed.edu. Email is usually faster.

Please sign in the log book each time you use the equipment.

For equipment that belongs to each lab, please contact the lab manager listed below for permission and instruction.

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