

Descr	Location	Custodian
Biosafety cabinet (2) - Thermo 1300 series A2	AS4-2027	Aronin
Luminometer - GlowMax Multi with injectors	AS4-2010	Aronin
Maxwell 16 - (extracts DNA&RNA from tissue) Promega	AS4-2010A	Aronin
Microscope - Upright Nikon Eclipse E600	AS4-2007A	Aronin
Microscope -Inverted Nikon Eclipse TS100	AS4-2007A	Aronin
Microtome - Leica VT1000S	AS4-2027	Aronin
PCR - BioRad C1000	AS4-2027	Aronin
PCR. PTC-1160	AS4-2027	Aronin
Tissue Slicer (Oscillating)- EMS OTS-5000	AS4-2027	Aronin
Biosafety cabinet (2) - Thermo 1300 series A2	AS4-2014A	Fang
Microscope -Zeiss-Axiovert A1	AS4-2014A	Fang
PCR - BioRad C1000 (2)	AS4-2013	Fang
HPLC System -Cytiva AKTA Pure Micro	AS4-2013A	Fang
3D printer-3D MakerBot Replicator desktop 3D printer	AS4-1018	Grunwald
Centrifuge -Eppendorf 5417R	AS4-1017	Grunwald
Digitizer -3D MakerBot Digitizer	AS4-1018	Grunwald
Qubit Fluorometer	AS4-1017	Grunwald
Refractometer- Projection Abbe ,Edmund Optics WY1A	AS4-1017	Grunwald
Stereomicroscope - Leica M3Z	AS4-1018	Grunwald
UV box- Spectroline UV Transilluminator	AS4-1017	Grunwald
Viscosimeter (rotational type)- Brookfield LVDV3T Rheometer	AS4-1017	Grunwald
3D Printer -MakerBot Method 3D	AS4-1023	Grunwald
3D Printer- Form 2	AS4-1023	Grunwald
GLOW DISCHARGE SYSTEM -EMS Quorum-GloQube	AS4-1023	Grunwald
Laser cutter -Glowforge Pro	AS4-1003	Grunwald
Microscope System	AS4-1018A	Grunwald
Milling Machine-Tormach Series 3	AS4-1027	Grunwald
Osmometer Freezing Point (for 50 uL sample)-Precision Systems μOSMETTE 5004	AS4-1017	Grunwald
Biosafety Cabinets (2) - Thermo 1300 series A2, 6ft	AS4-1028	Khvorova
Centrifuge Beckman Allegra X-15R (swingbucket)	AS4-1028	Khvorova
Centrifuge- Sorvall Legend XTR	AS4-1012A	Khvorova
Coulometer- Karl fisher titrator - Metrohm 899	AS4-1015	Khvorova
DNA Synthesizer -Biolytic Dr.Oligo	AS4-1014	Khvorova
DNA Synthesizer-ABI-433A Peptide Synthesizer	AS4-1012	Khvorova
DNA/RNA synthesizer - ABI Expidite 8909	AS4-1014	Khvorova
DNA/RNA synthesizer MerMade8	AS4-1013	Khvorova
Endotoxin Testing Device-Charles River Nexgen PTS-150	AS4-1011	Khvorova
FPLC Biotage Isolera Four	AS4-1006A	Khvorova
HOMOGENIZER- Miltenyi GentaleMACs Octo Dissociator	AS4-1014	Khvorova
HPLC prep Agilent 1100 Series	AS4-1012	Khvorova
HPLC prep Agilent 1100 Series	AS4-1023	Khvorova
HPLC - Analytical-semi-prep Agilent 1260 infinite	AS4-1012	Khvorova
HPLC - Analytical-semi-prep Agilent 1260 infinite	AS4-1013	Khvorova
HPLC SYSTEM - Agilent 1290 Infinity II Prep	AS4-1012	Khvorova
HPLC SYSTEM. Agilent 1260 Infinity	AS4-1012A	Khvorova
LCMS Agilent LCMS system	AS4-1023	Khvorova
LCMS Agilent Accurate MassQ-TOF LCMS system	AS4-1023	Khvorova
M900 easydip slide staining system	AS4-1016	Khvorova
Nexcelom Bioscience Cellometer Auto1000	AS4-1028	Khvorova
Nitrogen Gas Generator	AS4-1023	Khvorova
Oligo Synthesizer GE AKTA Oligopilot 100 system	AS4-1013A	Khvorova
Photoreactor (UVA & UVC) - Luzchem LZC-4X with timer and portable carousel	AS4-1016A	Khvorova
Plate washer Biotek ELX405 Auto	AS4-1015	Khvorova
Qiagen TissueLyser II	AS4-1012A	Khvorova
QuantiGene ovens	AS4-1016	Khvorova
R3 Rotavapor with heating bath, C-condenser, STJ 24/40 evaporating, Buchi model R-3 HB	AS4-1014A	Khvorova
SpeedVac - Savant DNA120	AS4-1031	Khvorova
Speedvac (multiple)-Thermo Scientific SpeedVac SPD 120	AS4-1012A	Khvorova
Stereotaxic Frame - KOPF 940 Dual Small Animal	AS2-1041	Khvorova
Teledyne Rf 200 Combiflash, flash purification system	AS4-1015A	Khvorova
TFF System Spectrum KR2i	AS4-1011	Khvorova
Spectrophotometer -Agilent Cary 3500 Multicell Pelittier	AS4-1011A	Khvorova
Ultra Small Stereotaxic Frame-KOPF 963	AS4-1013A	Khvorova
Homogenizer-Next Advance Bullet Blender Gold+	AS4-1012A	Khvorova
UV Spectrophotometer - Agilent Cary 3500	AS4-1011A	Khvorova/Watts
Centrifuge - Sorvall Legend XTR tabletop 4500rpm (swingbucket)	AS4-1002A	Korostelev
Centrifuge Beckman Avanti J-E High speed floor (2 rotors)	AS4-1023	Korostelev
FPLC - AKTAexplorer10 chromatography system	AS4-1001A	Korostelev
K100X glow discharge	AS4-1001A	Korostelev
Microscope -Leica M205C	AS4-1033	Korostelev
Microscope -SZH-10	AS4-1034	Korostelev
PCR - Bio-Rad C1000	AS4-1001A	Korostelev
Piston Gradient Fractionator	AS4-1001A	Korostelev
UV Spectrophotometer- NanoDrop 1000	AS4-1001A	Korostelev
FPLC - GE AKTA Pure	AS4-1033	Li
Nanosystem- NanoAssemblr Ignite. Precision Nanosystems	AS4-1003A	Li
DLS - Malvern Panalytical Zetasizer lab Blue	AS4-1003A	Li
Fast Prep - 24	AS5-2013A	Mello
Imaging system- Bio-Rad -ChemiDoc MP	AS5-2014A	Mello
Microscope - EVOS fluorescent	AS5-2013	Mello
Microscope - Nikon Injection scope	AS5-2025	Mello
Microscope - Zeiss Axioplan 2 GFP scope	AS5-2025A	Mello
Microscope - Zeiss Axiovert 200M Confocal Microscope	AS5-2025B	Mello
Microscope - Andorr High speed confocal imaging platformDragonfly	AS5-2025A	Mello
Needle Puller- Narishige Japan PN-30	AS5-2025B	Mello
PCR - Real Time- QuantStudio 5	AS5-2013	Mello
Sonicator - Diagenode Bioruptor	AS5-2020A	Mello
Stereomicroscope - Zeiss Discovery Stereo GFP scope	AS5-2025A	Mello

UV box	AS5-2014A	Mello
UV Crosslinker Stratallinker- with 254nm and 368nm bulbs	AS5-2014	Mello
UV Spectrophotometer-NanoDrop ND-1000	AS5-2013	Mello
Confocal Microscope- Andor Dragonfly	AS5-2025B	Mello
Microscope-Carl Zeiss Axio Imager M2	AS5-2025B	Mello
Microscope-Carl Zeiss AxioImagerA2	AS5-2025A	Mello
Mixer-Retsch Mixer Mill 400	AS5-2013A	Mello
Imaging System-Bio-Rad ChemiDoc	AS5-2014A	Mello
Spectrophotometer-Fisher NanoDropEight	AS5-2013	Mello
Real-Time PCR System -Life Tech QuantStudio 5	AS5-2013A	Mello
Osmometer-Elitech FreezePoint 6000	AS4-1011	NACC
Homogenizer-Omni Prep	AS4-1011A	NACC
Coulometer-Metrohm ECO Coulometer	AS4-1011	NACC
Homogenizer-Next Advance Bullet Blender	AS4-1012A	NACC
Flash chromatography-Teledyne Combi Flash NextGen 300+	AS4-1015A	NACC
Ion Chromatography-Metrohm 930 Compact IC Flex	AS4-1011	NACC
Tangential Flow Filtration-Formulatrix µPulse TFF V3	AS4-1011	NACC
Mass Spectrometer- Advion Interchim Scientific Expression L	AS4-1024	NACC
Nitrogen Generator-Parker N2-160	AS4-1024	NACC
DNA/RNA Oligo Processor -Biolytic Dr. Oligo	AS4-1009A	NACC
DNA/RNA Synthesizer- Biolytic Dr. Oligo	AS4-1009A	NACC
Biosafety carbinet (2) - Thermo 1300 series A2	AS5-2003A	Pai
Cell counter - COUNTESS II FL	AS5-2003A	Pai
Cell Transfection System -Neon [®] Invitrogen	AS5-2003A	Pai
PCR Invitrogen Proflex	AS5-2003A	Pai
PCR Invitrogen Proflex	AS5-2004A	Pai
Sonicator - Diagenode Bioruptor Pico	AS5-2004A	Pai
UV Spectrophotometer- NanoDrop OneC	AS5-2004A	Pai
Sequencing System - Illumina -MiniSeq	AS5-2005	Pai-Sontheimer
Centrifuge -Beckman Coulter Avanti JXN-26	AS4-2020	RTI-dept
Bioanalyzer (Agilent 2100 Electrophoresis Bionanalyzer)	AS4-1024A	RTI-dept
Centrifuge - Beckman Coulter Avanti JE	AS4-2020	RTI-dept
Centrifuge - Beckman Coulter Avanti JE	AS5-2020	RTI-dept
Centrifuge Ultra - Beckman L-90K floor model (SW32Ti, SW41Ti, 45Ti, 70Ti)	AS4-1023	RTI-dept
Centrifuge Ultra - Beckman Optima Max-TL table top (TLA-110, TLA 100)	AS4-2020	RTI-dept
CO2 incubators - Thermo Napco 8000	AS4-1029	RTI-dept
Crystal robot - ARI Gryphon	AS4-1033	RTI-dept
Freezer -80C back up 4th floor	AS4-1024	RTI-dept
Freezer -80C back up 5th floor	AS5-2020	RTI-dept
Gradient Fractionator - ISCO Teledyne Foxy Jr with UA-6 absorbance detector	Biotech II	RTI-dept
Imaging system - GE ImageQuant LAS 4000 imaging system	AS4-2028	RTI-dept
Imaging system- Bio-Rad ChemiDoc MP	AS5-2005	RTI-dept
Imaging System- Bio-Rad ChemiDoc MP	AS4-2028	RTI-dept
Imaging System-Li-Cor Odyssey CLX	AS4-2002A	RTI-dept
Incubator for microbiology - Isotemp Gravity 30 C	AS4-1024	RTI-dept
Incubator for microbiology - Isotemp Gravity 37 C	AS4-1024	RTI-dept
Liquid Scintillation Counter - PerkinElmer Tri-Carb 2910	AS4-2028	RTI-dept
Lyophilizer - FreeZone Plus 2.5 Liter cascade Benchtop Freeze Dry System	AS4-1031	RTI-dept
Microplate Reader - BioTek Eon (absorbance)	AS5-2029	RTI-dept
Microplate Reader - Molecular Devices SpectraMax M5 (Ab/FL/Lumin/FP/Cuvette)	AS4-1024A	RTI-dept
Microplate Reader -Tecan Spark (Ab/FL/Lumin/FP/NanoQuant)	AS4-1024A	RTI-dept
Microscope - Nikon Eclipse Ti - inverted Epi-Fluorescent	AS4-2011A	RTI-dept
Microscope - Zeiss -Inverterskop 40C	AS4-1029	RTI-dept
Oven - Baking Oven	AS4-1037	RTI-dept
PCR - Bio-Rad C1000	AS4-1024A	RTI-dept
PCR - Real Time Bio-Rad CFX96 Touch (2)	AS4-1024A	RTI-dept
PhosphorImager-Typhoon FLA7000	AS4-2028	RTI-dept
PhosphorImager - Fuji FLA 9500 Typhoon laser bio-imaging Scanner	AS4-2028	RTI-dept
PippinHT	AS4-2001	RTI-dept
Plasma cleaner - basic	AS4-1010A	RTI-dept
Shaker - Eppendorf New Brunswick Innova 44	AS4-1023	RTI-dept
Shaker - Eppendorf New Brunswick Innova 44	AS4-1023	RTI-dept
Shaker - Eppendorf New Brunswick Innova 44R	AS4-1023	RTI-dept
Shaker - Eppendorf New Brunswick Innova 44R	AS4-1023	RTI-dept
Shaker - Eppendorf New Brunswick Innova 44R	AS5-2020	RTI-dept
Sonicator - Branson D250	AS4-1009A	RTI-dept
Sonicator - Branson D450 (cup horn)	AS4-2028	RTI-dept
Sonicator - Fisher model 120 sonic dismembrator	AS4-2028	RTI-dept
SpeedVac - Thermo Savant SPD131DDA with RVT400	AS4-1031	RTI-dept
Water system - Barnstead GenPure xCAD Plus UV/UF-TOC	AS5-2006A	RTI-dept
Water system - Barnstead GenPure xCAD UV/UF-TOC	AS4-1037	RTI-dept
Western Blotting System- Biotechne WES (ProteinSimple)	AS4-1033	RTI-dept
Homogenizer/microfluidizer -Dyhydromatics ShearJet HL60	AS4-2020	RTI-dept
PCR - Real Time -Bio-Rad CFX Opus 96	AS4-1024A	RTI-dept
Fluorometer -Invitrogen Qubit Flex Fluorometer	AS4-2001A	RTI-dept
Flow cytometer- Miltenyi MACSQuant [®] VYB Benchtop Analyzer	AS5-2029	RTI-Flow Core
Microfluidizer - Microfluidics LM20 Microfluidizer Processor	AS5-2020	RTI-Grigorieff
Centrifuge High speed floor - Sorvall RC-6+ (F10S 4x1000, F21S 8x50Y,F13S-14x50CY)	AS5-2020	RTI-Mello
Sequencing System - Oxford Nanopore Gridion- ONT Sequencer	AS5-2029	RTI-Pai
Sequencing system -Element Biosciences AVITI Seqencer	AS5-2029	RTI-Zamore
4150 Tapestation System	AS5-2029	RTI-Zamore
Centrifuge -Beckman Avanti J-26XP	AS4-2020	RTI-Zamore
Microfluidizer - Microfluidics M-110PS cell disruptor	AS4-2020	RTI-Zamore
Microscope - Leica DMI8 Inverted Fluorecent	AS4-1032	RTI-Zamore
PCR - Real Time Bio-Rad Opus 96	AS4-1024A	RTI-Zamore
Sequencing System - Illumina NextSeq2000	AS5-2029	RTI-Zamore
Biosafety carbinet - Thermo 1300 series A2	AS5-2028	Sontheimer
Biosafety carbinet (2) - Thermo 1300 series A2	AS5-2007A	Sontheimer
centrifuge-table top, Eppendorf 5810R	AS5-2028	Sontheimer

centrifuge-table top, Eppendorf centrifuge 5424R	AS5-2007	Sontheimer
FPLC - GE AKTA Pure 25M	AS5-2005A	Sontheimer
Gel dryer BioRad Double deck , Model 583	AS5-2006A	Sontheimer
Microscope - Leica DMIL Led	AS5-2007A	Sontheimer
Shaker - Eppendorf New Brunswick Innova 44	AS5-2020	Sontheimer
Shaker - Eppendorf New Brunswick Innova 44R	AS5-2020	Sontheimer
SpeedVac Concentrator SPD111V	AS5-2006A	Sontheimer
UV Spectrophotometer-NanoPhotometer P300 UV/Vis spectrophotometer	AS5-2028	Sontheimer
DNA Synthesizer -Biolytic Dr. Oligo 48	AS4-1008A	Watts
Microsyringe with Pump -World Precision Instruments Micro4	AS2-1002	Watts
Rotavapor (2)	AS4-1006A	Watts
Sterotaxic Frame (3) - KOPF Heavy Duty 1530 Frame/ 940 Dual Small Animal	AS2-1055	Watts
UV Spectrophotometer- Nano drop - Thermo	AS4-1005	Watts
Savant SpeedVac SPD210	AS4-1007A	Watts
DNA / RNA Oligo Synthesizer	AS4-1008A	Watts
DNA Synthesizer - Biolytic Expedite 8909	AS4-1005	Watts
DNA/RNA Synthesizer - Perseptive Biosystems	AS4-1005	Watts
HPLC - Analytical-semi-prep Agilent 1260 infinite	AS4-1005	Watts
HPLC System Agilent 1100 Series	AS4-1006	Watts
HPLC SYSTEM Agilent 1260 Infinity	AS4-1006	Watts
Microplate Reader - Fisher AccuScan	AS4-1006	Watts
PCR- Mastercycler	AS5-2007	Watts
Speed Vac Concentrator SPD111V	AS4-1031	Watts
UV Spectrophotometer - Aglient Cary 60	AS4-1007	Watts
VACUFUGE - Eppendorf Vacufuge Plus	AS4-1005	Watts
Biosafety carbinet (3) - Thermo 1300 series A2	AS4-1030	Watts/Grigorieff
Biosafety carbinet (2) - Thermo 1300 series A2	AS4-2012A	Xue
Lonza 4D Nucleofector system	AS4-2012A	Xue
Nucleofector- Lonza 4D-Nucleofector X-Unit	AS4-2012	Xue
PCR-Veriti® 96-Well Thermal Cycler (2)	AS4-2010A	Xue
Sequencing System - illumina -MiniSeq	AS4-2012	Xue
Biosafety Cabinets (2) - NuAire Class II type A/B3	AS4-2025	Zamore
FPLC - Bio-Rad Biologic LP (low-pressure, gradient chromatography system)	AS4-2026	Zamore
FPLC - FPLC - GE AKTA Pure	AS4-2002A	Zamore
Gel Dryers Thermo SGD5040 (3)	AS4-2002A	Zamore
Hybridization Oven IsoTemp	AS4-2002A	Zamore
Oven - Hybridization Oven UVP HB-1000	AS4-2003A	Zamore
PCR - Cole-Parmer PCRmax Quad Cyclers	AS4-2004A	Zamore
Sonicators shearer - Covaris focused ultra-sonicators shearer - E220	AS4-2005A	Zamore
SpeedVac - Thermo Savant SPD121P with RVT	AS4-2002A	Zamore
Stereomicroscope - Leica M55 Stereomicroscope (2)	AS4-2006A	Zamore
Stereomicroscope - Leica MZ6 Stereomicroscope (3)	AS4-2006A	Zamore
Stereomicroscope - Leica MZFLIII with Spot RT3 CCD camera (Monochrome and color)	AS4-2006A	Zamore
Stereomicroscope - Nikon SMZ645	AS4-2025	Zamore
UV light - Excellitas OmniCure Series 1500	AS4-2006A	Zamore
UV Stratalinker 2400 Stratagene	AS4-2003A	Zamore
Electroporator-BTX Gemini X2	AS4-2025	Zamore
Centrifuge Ultra - Beckman XE-90 floor model (SW32Ti, SW55Ti, 70Ti)	AS4-1023	Zamore
FPLC System	AS4-1012	Zamore
IMAGE ERASER MOLECULAR DYNAMICS	AS4-2028	Zamore
Luminometer - Turner veritas with injectors	AS4-2005A	Zamore
Microscope - Nikon DIAPHOT 200	AS5-2025	Zamore
Microscope - ZEISS AXIOSCOPE 50 (2)	AS5-2025	Zamore
Microscopes - MZFL111	AS4-2006A	Zamore
UV Spectrophotometer - Beckman DU640 w/melting capabilities	AS4-2002A	Zamore
UV Spectrophotometer- NanoDrop OneC	AS5-2001A	Zamore
Microscope - TIRF	SS-212	Zamore/Mello

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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