

***Biochemistry and Molecular Biology Laboratories***

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Thermo Fisher Attune NxT BV	2-laser, 8-color flow cytometer
Thermo Fisher QuantStudio 6	qPCR system with 96- and 384-well blocks
Thermo Fisher EVOS M7000	Inverted fluorescence microscope with live cell imaging chamber
Thermo Fisher iBright FL1500	Fluorescence/chemiluminescence blot and gel imager
Thermo Fisher SimpliAmp	Thermal cycler
Thermo Fisher Nanodrop Lite	Nanospectrophotometer for nucleic acid and protein quantification
Agilent Seahorse XFp	Extracellular flux analyzer
Agilent xCelligence RTCA DP	Real-time cell analyzer
Oroboros O2k	Oxygraph respirometer
Agilent HPLC System	HPLC
CellRad	Live cell X-ray irradiation system
BioTek Synergy 2	Multimode plate reader (abs/fluor/lum)
BioTek Powerwave 340	Microplate spectrophotometer
BioTek ELx50	Microplate washer
Thermo 4625	Microtiter plate shaker
Fisher Microplate Shaker	Microtiter plate shaker
Eppendorf Biophotometer	Cuvette spectrophotometer
Zeiss Axio Imager M2	Upright fluorescence research microscope
Motic AE31E	Inverted fluorescence microscope
Fisherbrand inverted microscope	Inverted microscope
VWR inverted microscope	Inverted microscope
Olympus CKX31	Inverted microscope
Micromaster	Upright microscope
Thermo 1300 A2 (3)	Biosafety cabinet
Thermo Scientific 1345	Biosafety cabinet
Hyperclean Truair 24 (2)	Fume hood
Coy Lab CleanSpot	PCR Workstation
Fisher Heracell 160i	CO <sub>2</sub> incubator with O <sub>2</sub> control
Fisher Heracell 240i	CO <sub>2</sub> incubator with O <sub>2</sub> control
Fisher Heracell 150i	CO <sub>2</sub> incubator
Isotemp Direct Heat CO2 (2)	CO <sub>2</sub> incubator
VWR Mini Incubator	Non-CO <sub>2</sub> incubator
Leica EG1160	Tissue embedding station
Microm HM315	Microtome
Surgipath Temperature Controller	Temperature Controller
Millipore Scepter 2.0	Handheld automated cell counter
StemCell Technologies EasyEights (2)	Magnetic cell sorting system
Abaxis Piccolo	Clinical chemistry system
VetScan HM5	Hematology analyzer
VetScan HM2	Hematology analyzer
BioRad Mini-Protean Tetra (2)	Western blot system
BioRad Ready Gel Cell	Electrophoresis cell
BioRad Mini-Protean 3 (2)	Electrophoresis cell
Invitrogen Xcell SureLock	Electrophoresis cell
BioRad Subcell GT	Horizontal electrophoresis cell
Thermo Owl EasyCast B1A	Horizontal electrophoresis cell
BioRad Powerpac HC (2)	Electrophoresis power supply
BioRad Powerpac 200 (2)	Electrophoresis power supply
CBS Scientific EPS-300II	Electrophoresis power supply
TransBlot Turbo	Semi-dry blotting system

iBlot2	Dry blotting system
Thermo Scientific Orion 3-star	Benchtop pH meter
Accumet AB-150	Benchtop pH meter
Fisher Incubating Rocker	Incubating rocker
Solaris 2000	Incubating shaker
Boekel Scientific Jitterbug 130000	Microplate shaker
Fisher Isotemp Hot Plate Stirrer (4)	Hot plate stirrer
Fisher Scientific Hot Plate Stirrer	Hot plate stirrer
Corning PC-420D	Hot plate stirrer
Thomas MagneMatic	Stirrer
Precision 2841	Water bath
Precision Model 180	Water bath
VWR General Purpose Water Bath	Water bath
Fisher Isotemp 2L Water Bath	Water bath
Fisher Dry Bath	Dry bath incubator
Fisher Isotemp Dry Bath 2 Block	Dry bath incubator
Reliable Scientific Model 55	Rocking shaker
Thermo MaxQ Mini 4450	Orbital shaker
Fisher Blood Tube Rocker	Rocker
Thermo Digital Rocker (2)	Rocker
Benchmark Digital Heat Block	Heat block / dry bath
Makartt sterilizer (2)	Sterilizer
Rival microwave	Microwave
Fisher Science Education Balance	Analytical balance
Accuris W3100A-120	Analytical balance
Ohaus AX-224	Analytical balance
Denver Instruments XS-3100	Balance
Harvard Junior	Trip balance
Ohaus triple beam (2)	Triple beam balance
Fisher Scientific 100FS Isotemp	Dry oven
Fisher Heratherm Oven	Dry oven
Arrow Engineering JR4000	Rotorstator electric stirrer
Fisher 150E with 4C15 Probe	Sonicator
GentleMACS	Tissue dissociator
Biospec Mini-beadbeater-16	Bead homogenizer
Thermolyne MaxiMix Plus	Vortex
Fisher Vortex Mixer (8)	Vortex
Scientific Industries Vortex-Genie	Vortex
VWR Vortex Mixer (2)	Vortex
Sorvall RC6	Superspeed centrifuge
Thermo Sorvall ST1R Plus	Refrigerated centrifuge with tube swing rotor
Thermo IEC-CL31R	Refrigerated centrifuge with tube and plate swing rotors
Baxter Biofuge 17R	Refrigerated centrifuge with fixed rotor
IEC Centra-GP8R	Refrigerated centrifuge
Fisher Scientific Accuspin micro17R (2)	Refrigerated microcentrifuge
Eppendorf 5415R	Refrigerated microcentrifuge
Eppendorf 5417R (2)	Refrigerated microcentrifuge
Eppendorf 5415	Non-refrigerated microcentrifuge
LW Scientific Zipocrit	Hematocrit centrifuge
Daigger 100-VAC	Microcentrifuge
United Scientific Eco-Mini (2)	Minicentrifuge
Qualitron DW-41 (2)	Minicentrifuge
Research Products HF-120	Minicentrifuge
Thermo Revco	Upright ultra-low freezer
Thermo Revco RLE	Upright ultra-low freezer
Thermo TSX	Upright ultra-low freezer
Fisher Isotemp	Chest ultra-low freezer
Fisher Isotemp 20CF	Upright -20°C freezer
GE refrigerator/freezer (2)	Refrigerator/freezer

Kenmore refrigerator/freezer	Refrigerator/freezer
Roper refrigerator/freezer	Refrigerator/freezer
Frigidaire refrigerator/freezer (2)	Refrigerator/freezer
Hotpoint refrigerator/freezer	Refrigerator/freezer
Gladiator refrigerator/freezer	Refrigerator
GE Upright Freezer	Freezer
SGS Scientific 35VHC	Liquid nitrogen storage
DAI CryoMzier Dewar	Liquid nitrogen storage
Sterilelite 16L	Autoclave
Yamato SM-520	Autoclave
Evoqua Purelab Flex	Water purification system
Smart2Pure 3	UV/UF Water purification system
Manitowoc ice machine	Ice machine
GE 2.4cf Washer-Dryer Combo	Washer-dryer

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### ***Animal Equipment***

EchoMRI-100	Mouse body composition analyzer
Isoflurane system	Isoflurane system
Multi-lane mouse treadmills (2)	Treadmills
Conduct Science Rotarod	Rodent rotarod
Conduct Science Grip Strength	Rodent grip strength meter

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### ***Clinical Equipment***

Hologic DXA	DXA scanner
Parvo-Medics metabolic system (2)	O <sub>2</sub> and CO <sub>2</sub> analysis system
GE 12-lead ECG	Auto-interpretive ECG unit
CardioTEch GT-400	Auto-interpretive resting and stress ECG
Monark LC6 NOVO	Cycle ergometer
Omron HEM-907XL (3)	Blood pressure monitor
Woodway	Research treadmill
Tanita WB-3000	Stadiometer scale

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### ***Biomechanics and Musculoskeletal Analysis Laboratory***

12-Camera Qualisys Miquis 3D System	3D motion capture
8-Camera Qualisys OQUSI 3D System	3D motion capture
8-Camera Video OptiTrack 3D System	3D markerless motion capture
Theia Markerless software	3D markerless motion capture
Delsys Trigno System	Wireless EMG (muscle activity) system
Noraxon TeleMYO System	Wireless EMG (muscle activity) system
2 AMTI 3D in-ground force platforms	Ground reaction force plates
CSMi Solutions, HUMAC NORM	Isokinetic dynamoter
Philips Lumify Ultrasound	Portable diagnostic ultrasound MSK and cardiovascular probes
Bertec Treadmill	3D force instrumented treadmill
IMeasureU Blue Trident IMUs, VICON	Inertial Measurement Units (IMU)
PCB Accelerometer	3D wired industry-grade accelerometer
Novel Loadsol Insoles	Vertical force insoles
Pedar Plantar Pressure Insoles	Plantar Pressure System
TekScan Pressure Mat	Plantar pressure mat
Arch Height Index Measurement System	JakTook, Arch measurement system
Lafayette Timer and Photo-Cells	Electronic timer and photo-cells
Solo-step Harness System	Safety harness system
C-Motion Visual3D Software	Biomechanical analysis software