

Schmidt College of Medicine Shared Research Facilities

Available for use by COM faculty, staff, and students. Occasional use by non-COM faculty and students approved on a case by case basis.

MOLECULAR FACILITY

This facility provides investigators access to state-of-the-art equipment to conduct molecular experiments that include but are not limited to DNA/RNA quantitation and gene expression, RT-PCR, Q-PCR, and nucleic acid analysis.

Manager(s): Dr. Max Caputi for 2nd floor
mcaputi@health.fau.edu

Item	Location
Applied Biosystems SimplyAmp Thermocycler (2)	317B & 201H
Vortexer	317B
Agilent 2100 Bioanalyzer – access provided after training.	317B
MX300SP Stratagene QPCR	317B
Nanodrop ND 8000 channel Spectrophotometer	317B
Agilent AriaMX Real-Time PCR System (2) – access provided after training.	317B & 217E
ThermoFisher QUBIT 4 FLUOROMETER WIFI BOX (2)	317B & 217E

IMAGING FACILITY

This facility contains equipment that provides for detection of nucleic acid and protein electrophoresis experiments.

Manager(s): Dr. Lisa Brennan for 2nd and 3rd floors Lbrenna6@health.fau.edu – **access provided after training.**

Item	Location
Carl Zeiss Microimaging LSM 700 Confocal Laser Scanning System (<i>Dr. Lisa Brennan is responsible-access provided after training</i>)	201B
Eppendorf e5430r refrigerated benchtop micro centrifuge (2)	317C & 217E
Licor Odyssey Infrared Imager (2) – access provided after training.	317C & 217F
Bio-Rad TransBlot Turbo (2)	317C & 201H
UVP EpiChemi II Darkroom	317C
Hybridization Oven, 2 chamber	317C
Storm 860 Phosphorimager	317C

CELL ANALYTICS FACILITY

This facility contains equipment to utilize fluorescence and/or impedance based technologies to sort and evaluate properties in both fixed and living cells.

Manager(s): Dr. Michael Lu Mlu3@health.fau.edu

Item	Location
BD FACS Calibur Analyzer (<i>Dr. Nouri-Shirazi is responsible</i>)	317E
Orflo Moxi Go	317E
ACEA Biosciences xCELLigence RTCA DP system (<i>Dr. Lu is responsible</i>)	317E
Micro electrode array system (MEA) (<i>Dr. Wei is responsible</i>)	201E

GENOMICS FACILITY

This facility contains equipment and resources to support genomics related research.

Manager(s): TBD – access provided after training.

Item	Location
VWR epMotion 5073 liquid handling system	317J
Diagenode Pico Disruptor	317J
10x Genomics Chromium (<i>Dr. Brennan is responsible</i>)	317J
Oxford Nanopore Sequencer (<i>Dr. Max Caputi is responsible</i>)	227

iPSC / DISEASE MODELING FACILITY

The Induced Pluripotent Stem Cell (iPSC) facility is used to perform genome editing and differentiation of iPS cells as an advancement in stem cell research. Contact Dr. Wang if interested in the services of this facility.

Manager(s): Dr. Yingcai Wang yingcaiwang@health.fau.edu / – access provided after training.

Item	Location
Sorvall Legend XIR centrifuge (2)	317H and 301E
Nikon Inverted Microscope	317H
ThermoScientific CO2 heracell incubators (2)	317H
Biosafety cabinets for tissue culture (2)	317H
Invitrogen Neon transfection system	317H

PROTEOMICS FACILITY

This facility contains equipment to support identification and characterization of proteins.

Manager(s): Dr. Andrew Oleinikov aoleinikov@health.fau.edu

Item	Location
Lablanco freeze zone 4.5 plus (<i>belongs to Oleinikov</i>)	301C
Bio Rad Protein Purification System	301C
BMG LabTech CLARIOstar (<i>Dr. Toll is responsible</i>) – access provided after training.	301C

HISTOLOGY / QUANTITATIVE IMAGING & MORPHOLOGY FACILITY

This facility contains equipment and resources to support histological research needs.

Manager(s): Dr. Ceylan Isgor cisgor@health.fau.edu – access provided after training.

Item	Location
Leica CM1850 cryostat	201A
Leica CM1860 cryostat	201A

FAU CELL IMAGING FACILITY

Confocal microscopy provides for high-resolution imaging of cells and tissues which have been labeled with one or more fluorescent probes. Formal DoR/Brain Institute core that charges a fee for usage for the confocal in 301B.

Manager(s): *Dr. Jana Boerner is core manager & trainer, Dr. Jenny Wei is Boca contact.*

jboerner@fau.edu jwei@health.fau.edu – access provided after training.

Item	Location
Nikon N-SIM E and A1+R combined Super Resolution and Confocal Imaging System	301B
Neurolucida 360 imaging station/software-via reservation calendar-no charge to use	201I

FAU COMPARATIVE MEDICINE CORE FACILITY

Director: Dr. Sylvia Gografe sgografe@fau.edu **Managers:** Carrie List clist@fau.edu, Helen Munchow amunchow@fau.edu

Equipment in Vivarium-COM Building 71, 4th floor - access provided after all required trainings are completed.

Med Associates Locomotor Tracking System-CPP boxes (<i>Dr. Toll is responsible</i>)	Vivarium 413A
Noldus Morris Mouse Maze (<i>Dr. Prentice is responsible</i>)	Vivarium 412A
Noldus Force Plate Actimeter (<i>Dr. Prentice is responsible</i>)	Vivarium 412A
Noldus Radial Arm Maze (<i>Dr. Prentice is responsible</i>)	Vivarium 412 (cubicle close to rm 412A)
Neurostar Motorized Standard Stereotaxic System (<i>Dr. Aki Ozawa is responsible</i>)	Vivarium 402
Vevo 3100 Ultrasound Imager (<i>Dr. Rodrigues is responsible</i>)	Vivarium 412 (cubicle close to clean HW)

OTHER EQUIPMENT IN COMMON LABS: contact Deb Bradley to report any issues dbradley@health.fau.edu

Item	Location
Olympus Florescence Microscope	201B
Biorad Biologic uv-vis detector/fraction collector	301D
Biotek elx 800 microplate reader	301D
Thermo Sorvall legend X1R refrigerated centrifuge	301E
Perkin elmer microbeta 2450 microplate counter	301D
Thermos evolution 220 uv visible spectrophotometer	301D
Sonics vibracell	301E
Precision microprocessor controlled 280 water bath (2)	301 & 301E
ThermoSci Max Q6000 incubator/shakers (2)	301
Isotemp 228 waterbath	301
ThermoSci Heratherm Oven	301
Zeiss invertoskop 40c microscope	301
Beckman coulter optima L80k ultracentrifuge	301
Panasonic autoclave	201, 217, 301, 317
Eppendorf 5417R centrifuge	301
Beckman coulter Avanti J25 high speed centrifuge (2)	301 & 217
Barnstead lab line MaxQ7000 waterbaths (2)	201 & 301
Beckman OptimaMax tabletop ultracentrifuge	301
Biosafety cabinets for tissue culture	201C&D,301& 301H, 317G
Heracell 150 incubators	201C&D,301& 301H, 317G
Hypoxia Chamber CoyLab (<i>Dr. Prentice is responsible</i>)	201D
GE Nanovue spectrophotometer	201G
3D printer	201H
Eppendorf vacufuge & Heto cold trap	201
Beckman coulter allegra centrifuge	317
Inotech Cell Harvester	301D
New brunswick C76 water bath shaker	217
New Brunswick Series 25 floor model shaker(Dr. Lu is responsible)	317
Thermo Stericycle incubators (2)	317G
Beckman coulter optima L90k ultracentrifuge	217
Olympus BX41 microscope	217F
Eppendorf Centra CL5 centrifuge	217
Eppendorf mastercycler thermal cyclers	217
Ultrospec 500 pro spectrophotometer	217E
BMG Labtech Polarstar omega	217D
BioRad gene pulser x cell	317E
Spectramax m5	217F
Thermo Legend 21R Microfuge	301E
Sorvall ST16 centrifuge	301H

Hybaid Maxi14 hybridization oven	201H
Nikon Eclipse TxZR microscopes (2)	217F & 317C
Waters HPLC w/electrochemical detector	301