



Life Sciences Incubator

The 3,000 sq. ft. Life Sciences Incubator is centrally located on the UC Riverside campus on the first floor of the Multidisciplinary Research Building (MRB). The Incubator is specially outfitted to house companies from life sciences, agriculture, biotechnology, and medical technologies. In addition to bench space, the Incubator features tissue culture rooms with six biosafety cabinets, four chemistry hoods, five plant growth chambers, and state-of-the-art equipment including:

- FPLC and HPLC
- UV/VIS spectrophotometer
- Nano-drop spectrophotometer
- Microplate reader
- Label-free Protein Analyzer
- Gel Electrophoresis
- Western Blotting
- Microscopes (incl. fluorescence)
- Analytical Balance
- Microbiome Facility with anaerobic workflow capability
- Flow Cytometer
- Cell Counter
- Cell sorter
- Live Cell Analysis System
- Centrifuges and Ultra-centrifuge
- Sonicator and Electroporator
- Cystostat
- Microtome
- PCR and RT-PCR
- Refrigerators and Freezers
- Incubators / Shakers
- Cryo-storage
- Lyophilizer
- Rotovaps

In addition, residents will have access to core equipment facilities in the building and across campus, through a service agreement:

- Bioinformatics
- Confocal Microscopy
- Small Animal Vivaria
- Mass Spectrometry
- Nanofabrication Cleanroom
- Electron Microscopy
- NMR Spectroscopy
- Proteomics
- Stem Cell Core
- Plant Transformation

Most importantly, residents will also have the opportunity to interact and collaborate with UCR researchers, faculty, and students, attend seminars, use library and patent research services, access the UCR SBIR/STTR Resource Center and participate in INNOVAR entrepreneurial development workshops offered by EPIC SBDC.



Send inquiries to
LifeSciencesIncubator@ucr.edu

Equipment Inventory for UCR EPIC Life Sciences Incubator Lab in MRB

Plant Growth

Plant Growth Chamber (medium, cultures) – Percival CU36L6
Plant Growth Chamber (large, reach-in) – Percival E75L1
Plant cell growth LED shaker– Geneva GSR 500
Plant LED Growth Chambers – 2- and 3-tiered Caron 76269

Refrigerators/Freezers

Refrigerators (2 regular and one FPLC Cabinet) –
ThermoFisher TSX3005GA and 49 cu ft FBG49RPGA
Freezers -80° C (2) are water-cooled for LEED Platinum
building requirements, Fisher 324003H02
Freezer -80° C – Forma upright double door
Freezers -20° C (2) – ThermoFisher TSX3020FA
Cryo-storage System (liquid nitrogen) – VWR® CryoPro®

Biosafety Cabinets

BSL-2 VWR Purifier Logic Class II A2 (4 3-foot)

Chemical Fume Hoods

Kewaunee Supreme Air LV (4)

Incubators

CO2 incubators (4) – Fisher HeraCell 240I
Benchtop Incubator cabinet (1) – Fisher 151031563
Gravity Incubators (2) – Fisher S1028065h
Incubator Shakers (2) – Eppendorf I-26R
Incubator Shakers (2) – VWR 76407 H, R

Microscopes

Tissue Culture inverted microscope – ECHO Rebel (2)
Fluorescence microscope – ECHO Revolve
ZetaView® QUATT– NTA Nanoparticle Tracking with Video
Microscope PMX-420

Spectroscopes

ThermoFisher - NanoDrop OneC
DeNovix Fluorimeter

Centrifuges

Floor standing ultracentrifuge – Beckman Optima XPN100
Floor standing high speed centrifuge (110,000 x g) –
Beckman Avanti JXN30
Countertop General purpose centrifuge (64,000 x g) –
Beckman J-15R (3)
Countertop general purpose centrifuge (12-30,000 x g) –
Beckman X30R (3)
plus, selection of rotors

PCR

PCR System – Appl Biosystems Proflex 96
QuantStudio™ 5 Real-Time PCR System
RT-PCR BioRad CFX Opus 96
BioRad ddPCR system

Microplate handling and imaging

Microplate Reader – Molecular Devices SpectraMax i3x
Microplate Washer – Versa WellWash 96
BioRad - ChemiDoc MP Imaging System w/ Fluorescence

Cell Analysis Equipment

Live Cell Analysis System – Sartorius Incucyte S3
Flow Cytometer – Agilent Novocyte 3000
Cell Counter – DeNovix - Cell Drop FL
NanoCelect Wolf +N1 Microfluidic Cell Sorter

Chromatography

HPLC – JASCO 4000 Series HPLC
FPLC – BioRad NGC Quest 10 Plus

Evaporators

Rotovaps – Heidolph HL/G3 (2)
Labconco Centriva DNA Vacuum Concentrator
Lyophilizer (biologicals) – Harvest Large Freeze Dryer
Lyophilizer (chemicals) - FreeZone Labconco 2.5L

Cell Disruption

Sonicator – Branson SFX250 plus cabinet
Electroporation Device – Invitrogen MPK5000S (Neon)
Tissue Homogenizer - MP Biomedicals FastPrep 24

Microbiome Initiative

Isolation Bio (formerly GALT) Prospector
COY anaerobic glove box chamber
NanoCelect Wolf +N1 Microfluidic Cell Sorter
Leica Microsystems CryoStat

Miscellaneous

Water purification system – 50131217INS GenPure
Sartorius Secura 26-1S balance
Yamato Sterilizer 80 liter
Precisionary Compresstome vibrating microtome
Harrick Plasma Cleaner