

LabCentral Private and Shared Lab Equipment List



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LabCentral 700 Equipment List

Private Lab Equipment List

C170i CellXpert CO₂ Cell Culture Incubator
 ThermoMixer C w/ SmartBlock (24 x 1.5mL tubes)
 4°C Refrigerator
 -20°C Freezer
 Ultra Low Temperature (ULT) Freezer
 Refrigerated Benchtop Centrifuge 5810R
 w/ bucket, plate, 15mL/50mL conical tubes adaptors

10L Waterbath
 Chemical Fume Hood
 MicroCentrifuge 5424R w/ 1.5mL rotor
 Inverted Light Microscope
 Vortex Mixer
 Biosafety Cabinet (NSF Class II, Type A2)

* Private labs differ in size and layout. Listed equipment may vary

Private Bench Equipment List

Dedicated 4°C storage space in cold room
 Dedicated -20°C storage space in freezer room
 Dedicated ULT Freezer storage space in freezer room
 Shared undercounter 4°C and -20°C storage at bench
 Easypet 3 Pipette Controller w/ charger
 Shared Vortex Mixer

Micropipettor (0.1 - 2.5 µL)
 Micropipettor (0.5 - 10 µL)
 Micropipettor (2 - 20 µL)
 Micropipettor (10 - 100 µL)
 Micropipettor (20 - 200 µL)
 Micropipettor (100 - 1000 µL)

Shared LabCentral 700 Equipment List

Equipment Type

Manufacturer

Liquid Handling Systems/Purification:

QIAcube
 Unagi automated buffer exchanger
 Kingfisher Apex
 Maxwell RSC System
 405^{TS} Microplate washer
 epMotion 96
 epMotion 5075tc
 VIAFLOW 384 (300ul, 96 well head)
 Integra Assist Plus
 GentleMACS Octo Dissociator with Heaters
 TissueLyser III

QIAGEN
 Unchained Labs
 Thermo Fisher Scientific
 Promega
 Agilent
 Eppendorf
 Eppendorf
 Integra
 Integra
 Miltenyi Biotec
 QIAGEN

Gene Expression Analysis/Genotyping/Electroporation:

Spectrum Compact CE Sanger Sequencing System
 ExPERT GTx electroporator
 QIAcuity dPCR
 Mastercycler X50i and X50s thermal cycler
 VeritiPro thermal cycler (96 well block)
 ProFlex thermal cycler (3 4x8 well blocks)
 QuantStudio 6 Pro Real-Time PCR System (0.2mL 96/384 well blocks)
 QuantStudio 7 Pro Real-Time PCR System (0.2mL 96/384 well blocks)
 QuantStudio 7 Flex Real-Time PCR System
 Neon NxT Transfection System
 Gene Pulser xCell Electroporation System

Promega
 MaxCyte
 QIAGEN
 Eppendorf
 Thermo Fisher Scientific

 Thermo Fisher Scientific
 Thermo Fisher Scientific
 Thermo Fisher Scientific
 Invitrogen
 Bio-Rad

AI BioHub:

MiSeq i100 Plus System
 NextSeq 2000 Sequencing System
 Attune Xenith Spectral Flow Cytometer
 Sony MA900 Cell Sorter with 488nm/405nm/561nm/638nm Laser and 96
 and 384 well plate deposition system - **available soon**
 epMotion 5075t NGS Solution - **available soon**

Illumina
 Illumina
 Thermo Fisher Scientific
 Sony Biotechnologies
 Eppendorf

Analytical Chemistry:

1260 Infinity Bio-inert LC System
1290 Infinity II LC System
LC/MSD iQ System
6545XT AdvanceBio LC/Q-TOF
ÄKTA go FPLC System
Endosafe Nexgen-PTS

Agilent
Agilent
Agilent
Agilent
Cytiva
Charles River

Bioanalytical Equipment:

Attune CytPix Flow Cytometer w/ CytKick Autosampler
Blue/Red/Yellow/Violet 6 4-Laser configuration
Attune NxT Flow Cytometer w/ CytKick Autosampler
Blue/Red/Yellow/Violet 6 4-Laser configuration
FlowJo Analysis Software
2100 Bioanalyzer
TapeStation 4150
PALA single cell dispenser
Stunner UV-Vis and DLS
Monolith X binding affinity analyzer
Prometheus Panta
Gator Plus BLI

Thermo Fisher Scientific

Thermo Fisher Scientific

FLOWJO, LLC
Agilent
Agilent
Namocell
Unchained Labs
Nanotemper
Nanotemper
Gator Bio

Cell/Particle Counters:

Countess 2 and 3 FL (GFP, RFP) Automated Cell Counters
Cellometer Auto 2000
Cellometer Ascend
Cellaca PLX
Vi-Cell XR counter

Invitrogen
Revvity
Revvity
Revvity
Beckman Coulter

Plate Readers/Spectrophotometers:

Cary 3500 Multicell Peltier UV-VIS
SpectraMax i3x Multi-Mode Microplate Reader Platform
SpectraMax M5^e
SpectraMax Mini
EnVision Nexus
VICTOR Nivo
GloMax Discover Plate Reader w/ Injector System
(UV/Vis, Fluorescence, Luminescence, BRET, FRET)
Synergy H1 Multimode reader
Cytation 5 Cell Imaging Multimode Reader
(UV/Vis, Fluorescence, Luminescence, High Content Cell Imaging)
Celigo brightfield and fluorescent imaging system
Ultrospec 2100 Pro
NanoDrop 8000 UV Spectrophotometer
NanoDrop One C
Qubit 2.0 and 3.0 Fluorometer
MESO QuickPlex SQ 120
Luminex MAGPIX Multiplex System

Agilent
Molecular Devices
Molecular Devices
Molecular Devices
Revvity
Revvity
Promega

Agilent
Agilent

Nexcelom
Amersham Biosciences
Thermo Fisher Scientific
Thermo Fisher Scientific
Thermo Fisher Scientific
Meso Scale Discovery
Millipore Sigma

Electrophoresis/Imaging Systems:

Wes automated western blotting system
Ella ELISA System
LabChip GX II Touch HT
XCell4 Surelock Midi-Cell Electrophoresis Systems
XCell Surelock Mini-Cell Electrophoresis Systems

Bio-Techne
Bio-Techne
Revvity
Life Technologies
Life Technologies

Bolt Mini Gel Tanks
 Owl Easy Cast
 Midi-Horizontal Electrophoresis System
 PowerEase 90/300/500w Power Supply
 EPS-300X Power Supply
 iBind and iBind Flex Western Device
 iBlot 3 Gel Transfer Systems
 E-Gel Power Snap Plus w/ Camera System
 Odyssey M Imaging System
 Odyssey DLx Imaging System
 Odyssey XF Imaging System
 iBright FL1000 Imaging System
 iBright FL1500 Imaging System

Life Technologies
 Thermo Fisher Scientific
 CBS Scientific
 Life Technologies
 CBS Scientific
 Life Technologies
 Life Technologies
 Life Technologies
 LI-COR
 LI-COR
 LI-COR
 Thermo Fisher Scientific
 Thermo Fisher Scientific

Microscopy and Imaging:

Inverted Light Microscopes
 EVOS XL Core
 EVOS Flويد Imaging System
 EVOS M3000
 EVOS M5000
 EVOS M7000
 Celleste Digital Imaging Software
 Axio Vert A1.0 w/ X-Cite 120Q
 Axioscan 7
 Celldiscoverer 7 system
 HIVE image processing workstation
 Cytation C10
 Stemi 508 Dissecting Scope with AxioCam 105 Color Camera
 APX100 Digital Imaging System
 FV4000 Confocal Microscope
 Fixed/Live cell confocal imaging
 LSM 9000 Confocal microscope - **610 Main St**
 CellInsight CX7 LZR Pro High-Content Screening Platform - **610 Main St**

VWR & Fisher
 Thermo Fisher Scientific
 Thermo Fisher Scientific
 Thermo Fisher Scientific
 Thermo Fisher Scientific
 Thermo Fisher Scientific
 Thermo Fisher Scientific
 Zeiss
 Zeiss
 Zeiss
 Aquifer
 Agilent
 Zeiss
 Evident (Olympus)
 Evident (Olympus)

 Zeiss
 Thermo Fisher Scientific

Centrifuges:

MX 120+ Micro-Ultracentrifuge
 S50-A Fixed Angle Rotor (6 x 30mL)
 S110-AT Fixed Angle Rotor (8 x 5mL)
 S55-A2 Fixed Angle Rotor (12 x 1.5mL)
 S50-ST Swinging Bucket Rotor (4 x 7mL)
 Lynx 4000 and 6000 Superspeed Centrifuge
 Fiberlite F9 -- 6 x 1000mL LEX Fixed Angle Rotor
 Fiberlite F12 -- 6 x 500mL LEX Fixed Angle Rotor w/ 6 x 250mL adapter
 F14-14x50CY -- 14 x 50mL Fixed Angle Rotor
 T29-8x50 -- 8 x 50mL Fixed Angle Rotor
 BIOFlex HC -- Swinging Bucket Rotor w/ 10 x 50mL tube,
 24 x 15 mL tube, 4 x 1000 mL bottle, and microplate adapters
 5810R Benchtop Centrifuge
 5910Ri Benchtop Centrifuge
 5430R Benchtop Centrifuge
 5424 Benchtop Microcentrifuge
 5424R Benchtop Microcentrifuge
 Heraeus Fresco 21 Centrifuge
 Allegra X-15R Benchtop Centrifuge
 Plate Centrifuge
 Mini Centrifuge

Sorvall

 Sorvall

 Eppendorf
 Eppendorf
 Eppendorf
 Eppendorf
 Eppendorf
 Thermo Fisher Scientific
 Beckman Coulter
 Southwest Sciences
 VWR

Sonicators:

Q125 Sonicator w/ Probe
Cup Horn Sonicator
CPX2800H Sonicator Bath

Qsonica
Qsonica
Branson

Lyophilizer/Vacuum Concentrator:

FreeZone Plus 4.5 Liter Cascade Freeze Dry System
Vacufuge Plus
F-45-48-11 -- 48 x 1.5mL Tube Rotor
A-2-VC -- 2 x Microplate Rotor

LabConco
Eppendorf

Balances:

Cubis Semi-Micro Balance w/ Automatic Doors & Ionizer, 220g x 0.01mg
Cubis Semi-Micro Balance w/ Manual Doors, 220g x 0.01mg
Cubis Toploader Balance w/ Touch Screen, 4200g x 0.01g
Discovery Analytical Balance, 210g x 0.1mg
Navigator Pan Balance, 210g x 0.01g
Explorer Semi-Micro Balance, 220g x 0.1mg
Adventurer Precision Balance, 2200g x 0.01g

Sartorius
Sartorius
Sartorius
Ohaus
Ohaus
Ohaus
Ohaus

Sample Prep and Processing Equipment:

Sunscreen LNP formulation screener

Unchained Labs

ThermoMixer C w/ SmartBlock (24 x 1.5mL and 24 x 0.5mL tubes)

Eppendorf

Multichannel pipettes (assorted)

Integra

Heatblock

VWR

pH and Conductivity Meter

Mettler Toledo and VWR

Rockers

Various

Orbital Plate Shakers

Various

Hot/Stir Plates

Various

Vortex Mixer

VWR

Rugged Rotator w/ tissue culture tube head

Glass-Col

Rotating Tube Mixer

Thermo Fisher Scientific

CM3050 S Cryostat

Leica

Slide Warmer

Lab-Line

Tissue Drying Oven

Meditate

Microwave Ovens

Various

Controlled Temperature, Incubation, and Environmental Chambers:

VIP+ Series Cryogenic Freezer

PHCBi

CryoMed Controlled-Rate Freezer

Thermo Electron

37°C Waterbath(s)

Various

Heratherm OMH60 Oven

Thermo Fisher Scientific

Innova 42 Bacterial Shaker Incubator (for BSL1 and BSL2 organisms)

Eppendorf

Innova 42R Bacterial Shaker Incubator (for BSL1 and BSL2 organisms)

Eppendorf

Innova 44 Bacterial Shaker (for BSL1 organisms)

Eppendorf

Innova s44i Bacterial Shaker Incubator (for BSL1 organisms)

Eppendorf

Heratherm Microbial Incubator (for BSL1 and BSL2 organisms)

Thermo Fisher Scientific

37°C, 5% CO₂ Cell Culture Incubators(s)

Various

New Brunswick S41i CO₂ Incubator Shaker

Eppendorf

Type II Class A2 Biosafety Cabinet(s)

Various

Concept 500 Anaerobic Workstation
 Airegard Horizontal Laminar Flow Clean Workstation
 AirClean 600 PCR Workstation

Baker Rushkin
 NuAire
 AirClean Systems

Facility Systems:

Cold Rooms for storage and/or sample prep (4°C)
 Chemical Hood(s)
 House Deionized Water System
 Available House RO Water
 Arium Pro DI/UV Lab Water System (Type I water)
 Synergy UV Water Purification System (Type I water)
 House Vacuum System
 AMSCO 250LS Autoclave
 Reliance 100LS and 400XLS Glasswashers
 Ice Machines and Dry Ice Chests

N/A
 N/A
 N/A
 N/A
 Sartorius
 Millipore
 N/A
 Steris
 Steris
 Various

LabCentral 238 Equipment List

LabCentral 238 Private Lab Equipment List

Chemical Fume Hood	Corrosive Chemical Cabinet
Ultra Low Temperature (ULT) freezer	4°C Refrigerator
-20°C Freezer	Micro 21R centrifuge
Refrigerated Benchtop Centrifuge - Sorvall X4R, Pro MD w/ TX-1000 Swinging bucket rotor, x4 buckets, 15mL/50ml conical tube adaptors, microplate adaptor	

LabCentral 238 Private Process Development Lab Equipment List

Biosafety Cabinet (NSF Class II, Type A2) w/ VacuTrap	Inverted Light Microscope
Countess III Cell Counter w/ GFP and RFP light cubes	4°C Refrigerator
Regulators for medical grade N ₂ , O ₂ , and CO ₂ gasses and compressed air	

LabCentral 238 Private Tissue Culture Lab Equipment List

Biosafety Cabinet (NSF Class II, Type A2) w/ VacuTrap (x3)	20L bead bath
HERACell VIOS 160i CO2 Incubator (x4)	Countess III automated cell counter
New Brunswick s41i CO2 Shaking Incubator (x2)	w/ GFP and RFP filters
w/ 250, 500, and 1000mL flask adaptors	Inverted microscope
Sorvall ST 8R Benchtop Centrifuge	4°C Refrigerator
w/ TX-150 swing bucket rotor, 15mL/50mL tube adaptors	

Shared LabCentral 238 Equipment List

Equipment Type

Manufacturer

Bioprocessing

SciVario Twin parallel bioreactor system*
 BioFlo 120 bioreactor system*
 BioFlo 320 bioreactor system*
 Cogent Lab 150 Benchtop TFF*
 Pellicon MiniX Cassette Holder
 Small weight scale
 CTS Xenon Electroporation System
 CTS DynaCollect Magnetic Separation System
 CTS DynaMag Magnet
 CTS Rotea Counterflow Centrifugation System

Eppendorf
 Eppendorf
 Eppendorf
 Millipore Sigma

Thermo Fisher Scientific
 Thermo Fisher Scientific
 Thermo Fisher Scientific
 Thermo Fisher Scientific

**subject to change*

Liquid Handling Systems/Purification:

405^{LS} Microplate washer
Kingfisher Apex

Agilent
Thermo Fisher Scientific

Gene Expression Analysis/Genotyping/Electroporation:

QuantStudio 6 Pro Real-Time PCR System (0.2mL 96/384 well blocks)
Absolute Q dPCR

Thermo Fisher Scientific
Thermo Fisher Scientific

Analytical Chemistry:

BioAccord LCMS with Acquity Premier UPLC
w/ TUV, FLR, and TOF detectors
Arc Premier UPLC System
w/ PDA, FLR, ELS, and Qda detectors

Waters

Waters

Bioanalytical Equipment:

Attune NxT Flow Cytometer w/ CytKick Autosampler
Blue/Red/Yellow/Violet 6 4-Laser configuration
Attune Cytpix Flow Cytometer w/ CytKick Autosampler
w/ high-speed brightfield camera
Blue/Red/Yellow/Violet 6 4-Laser configuration
PALA Single Cell Dispenser
Cedex Media Bio Analyzer
TapeStation 4150

Thermo Fisher Scientific

Thermo Fisher Scientific

Namocell

Roche

Agilent

Plate Readers/Spectrophotometers:

Varioskan LUX Plate Reader
NanoDrop One C
FLEXMAP 3D System
QuickPlex SQ 120 Plate Reader

Thermo Fisher Scientific

Thermo Fisher Scientific

Luminex

MSD

Electrophoresis/Imaging Systems:

iBright 1500
Odyssey M

Thermo Fisher Scientific

LI-COR

Microscopy and Imaging:

VS200 Slide Scanner
Operetta CLS high content imager
EVOS XL Core Imaging System
EVOS M5000 Imaging System
EVOS M7000 Imaging System
STEDYCON Super Resolution Confocal Imaging Microscope

Evident

Revvity

Thermo Fisher Scientific

Thermo Fisher Scientific

Thermo Fisher Scientific

Abberior

Centrifuges:

Lynx 6000 Superspeed Centrifuge
Fiberlite F9 -- 6 x 1000mL LEX Fixed Angle Rotor
Fiberlite F12 -- 6 x 500mL LEX Fixed Angle Rotor
w/ 6 x 250mL adapters
Fiberlite F14 -- 14 x 50mL Fixed Angle Rotor
Fiberlite F20 -- 12 x 50mL LEX Fixed-Angle Rotor
Lynx A27-6x50 -- 6 x 50mL Fixed Angle Rotor
BIOFlex HC -- 4 x 1000mL Swinging Bucket Rotor
w/ adapters for 15mL and 50mL tubes and microplates
WX 80+ Ultracentrifuge
Surespin 632 Swinging Bucket Rotor -- 6 x 38.5mL
Fiberlite F50L Fixed Angle Rotor -- 24 x 1.5mL
Fiberlite F37L Fixed Angle Rotor -- 8 x 100mL

Sorvall

Sorvall

5910Ri Bench Top Centrifuge

Eppendorf

Sonicators:

M5800H Sonicator Bath

Branson

Lyophilizer/Vacuum Concentrator:

Lyophilizer

LabConco

Balances:

ME204T/00 Analytical Balance

Mettler Toledo

Sample Prep and Processing Equipment:

pH Meter

Thermo Fisher Scientific

Vortex

Argos

Controlled Temperature, Incubation, and Environmental Chambers:

Backup Cold Storage (4oC, -20oC, and ULT)

Thermo Fisher Scientific

VIP+ Series Cryogenic Freezer

PHCBi

CryoPlus3 LN2 Storage

Thermo Fisher Scientific

CryoMed Controlled Rate Freezer

Thermo Fisher Scientific

Digital Rocker

Thermo Fisher Scientific

Tubing Welder

Terumo

HERACell VIOS 160i CO2 incubator

Thermo Fisher Scientific

Facility Systems:

PLW6111 Glasswasher

Miele

SSR-3A-X1 Autoclave

Consolidated Sterilizers

SR-26A Autoclave

Consolidated Sterilizers

Ice Flaker

Various

Dry Ice Chest

Various

Chemical Fume Hood

Mott

GenPure Water Purification System

Thermo Fisher Scientific

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