

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
 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
 epMotion 5075t NGS Solution

Illumina
 Illumina
 Thermo Fisher Scientific
 Sony Biotechnologies
 Eppendorf

Analytical Chemistry:

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

Bioanalytical Equipment:

Attune CytPix Flow Cytometer w/ CytKick Autosampler Blue/Red/Yellow/Violet 6 4-Laser configuration	Thermo Fisher Scientific
Attune NxT Flow Cytometer w/ CytKick Autosampler Blue/Red/Yellow/Violet 6 4-Laser configuration	Thermo Fisher Scientific
FlowJo Analysis Software	FLOWJO, LLC
2100 Bioanalyzer	Agilent
TapeStation 4150	Agilent
Seahorse XFe96 Analyzer	Agilent
PALA single cell dispenser	Namocell
Stunner UV-Vis and DLS	Unchained Labs
Monolith X binding affinity analyzer	Nanotemper
Prometheus Panta	Nanotemper
Gator Plus BLI	Gator Bio

Cell/Particle Counters:

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

Plate Readers/Spectrophotometers:

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

Electrophoresis/Imaging Systems:

Wes automated western blotting system	Bio-Techne
Ella ELISA System	Bio-Techne
LabChip GX II Touch HT	Revvity
XCell4 Surelock Midi-Cell Electrophoresis Systems	Life Technologies

XCell Surelock Mini-Cell Electrophoresis Systems
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
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

Sorvall

Sorvall

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

Mini Centrifuge

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	Baker Rushkin
Airegard Horizontal Laminar Flow Clean Workstation	NuAire
Airclean 600 PCR Workstation	AirClean Systems

Facility Systems:

Cold Rooms for storage and/or sample prep (4°C)	N/A
Chemical Hood(s)	N/A
House Deionized Water System	N/A
Available House RO Water	N/A
Arium Pro DI/UV Lab Water System (Type I water)	Sartorius
Synergy UV Water Purification System (Type I water)	Millipore
House Vacuum System	N/A
AMSCO 250LS Autoclave	Steris
Reliance 100LS and 400XLS Glasswashers	Steris
Ice Machines and Dry Ice Chests	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 w/ GFP and RFP filters
New Brunswick s41i CO2 Shaking Incubator (x2) w/ 250, 500, and 1000mL flask adaptors	Inverted microscope
Sorvall ST 8R Benchtop Centrifuge w/ TX-150 swing bucket rotor, 15mL/50mL tube adaptors	4°C Refrigerator

Shared LabCentral 238 Equipment List

Equipment Type	Manufacturer
Bioprocessing	
SciVario Twin parallel bioreactor system*	Eppendorf
BioFlo 120 bioreactor system*	Eppendorf
BioFlo 320 bioreactor system*	Eppendorf
Cogent Lab 150 Benchtop TFF*	Millipore Sigma
Pellicon MiniX Cassette Holder	
Small weight scale	
CTS Xenon Electroporation System	Thermo Fisher Scientific
CTS DynaCollect Magnetic Separation System	Thermo Fisher Scientific
CTS DynaMag Magnet	Thermo Fisher Scientific
CTS Rotea Counterflow Centrifugation System	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)

Thermo Fisher Scientific

Absolute Q dPCR

Thermo Fisher Scientific

Analytical Chemistry:

BioAccord LCMS with Acquity Premier UPLC
w/ TUV, FLR, and TOF detectors

Waters

Arc Premier UPLC System

Waters

w/ PDA, FLR, ELS, and Qda detectors

Bioanalytical Equipment:

Attune NxT Flow Cytometer w/ CytKick Autosampler

Thermo Fisher Scientific

Blue/Red/Yellow/Violet 6 4-Laser configuration

Attune Cytpix Flow Cytometer w/ CytKick Autosampler

Thermo Fisher Scientific

w/ high-speed brightfield camera

Blue/Red/Yellow/Violet 6 4-Laser configuration

PALA Single Cell Dispenser

Namocell

Cedex Media Bio Analyzer

Roche

TapeStation 4150

Agilent

Plate Readers/Spectrophotometers:

Varioskan LUX Plate Reader

Thermo Fisher Scientific

NanoDrop One C

Thermo Fisher Scientific

FLEXMAP 3D System

Luminex

QuickPlex SQ 120 Plate Reader

MSD

Electrophoresis/Imaging Systems:

iBright 1500

Thermo Fisher Scientific

Odyssey M

LI-COR

Microscopy and Imaging:

VS200 Slide Scanner

Evident

Operetta CLS high content imager

Revvity

EVOS XL Core Imaging System

Thermo Fisher Scientific

EVOS M5000 Imaging System

Thermo Fisher Scientific

EVOS M7000 Imaging System

Thermo Fisher Scientific

STEDYCON Super Resolution Confocal Imaging Microscope

Abberior

Centrifuges:

Lynx 6000 Superspeed Centrifuge

Sorvall

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

Sorvall

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
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

Vortex

Thermo Fisher Scientific

Argos

Controlled Temperature, Incubation, and Environmental Chambers:

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

VIP+ Series Cryogenic Freezer

CryoPlus3 LN2 Storage

CryoMed Controlled Rate Freezer

Digital Rocker

Tubing Welder

HERACell VIOS 160i CO2 incubator

Thermo Fisher Scientific

PHCBi

Thermo Fisher Scientific

Thermo Fisher Scientific

Thermo Fisher Scientific

Terumo

Thermo Fisher Scientific

Facility Systems:

PLW6111 Glasswasher

SSR-3A-X1 Autoclave

SR-26A Autoclave

Ice Flaker

Dry Ice Chest

Chemical Fume Hood

GenPure Water Purification System

Miele

Consolidated Sterilizers

Consolidated Sterilizers

Various

Various

Mott

Thermo Fisher Scientific

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