

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 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
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

Illumina
Illumina
Thermo Fisher Scientific

Sony MA900 Cell Sorter with 488nm/405nm/561nm/638nm Laser and 96 and 384 well plate deposition system
epMotion 5075t NGS Solution
10X Genomics Chromium System
QIAxcel automated electrophoresis system

Sony Biotechnologies

Eppendorf

10X

Qiagen

Analytical Chemistry:

1260 Infinity Bio-inert LC System

1290 Infinity II LC System

LC/MSD iQ System

6545XT AdvanceBio LC/Q-TOF

6230B Time of Flight (TOF) LC/MS

ÄKTA go FPLC System (n=2)

Endosafe Nexgen-PTS

Agilent

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

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

Heraeus Fresco 21 Centrifuge
Allegra X-15R Benchtop Centrifuge
Plate Centrifuge
Mini Centrifuge

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
ThermoMixer C w/ SmartBlock (24 x 1.5mL and 24 x 0.5mL tubes)
Multichannel pipettes (assorted)
Heatblock
pH and Conductivity Meter
Rockers
Orbital Plate Shakers
Hot/Stir Plates
Vortex Mixer
Rugged Rotator w/ tissue culture tube head
Rotating Tube Mixer
CM3050 S Cryostat
Slide Warmer
Tissue Drying Oven
Microwave Ovens

Unchained Labs
Eppendorf
Integra
VWR
Mettler Toledo and VWR
Various
Various
Various
VWR
Glass-Col
Thermo Fisher Scientific
Leica
Lab-Line
Meditate
Various

Controlled Temperature, Incubation, and Environmental Chambers:

VIP+ Series Cryogenic Freezer
CryoMed Controlled-Rate Freezer
37°C Waterbath(s)
Heratherm OMH60 Oven
Innova 42 Bacterial Shaker Incubator (for BSL1 and BSL2 organisms)
Innova 42R Bacterial Shaker Incubator (for BSL1 and BSL2 organisms)
Innova s44i Bacterial Shaker Incubator (for BSL1 organisms)
Stacked ISS-7100R Incubated Bacterial Shaker (for BSL1 organisms)

PHCBI
Thermo Electron
Various
Thermo Fisher Scientific
Eppendorf
Eppendorf
Eppendorf
JEIO Tech

IB4-15V Advanced Incubator (Static)	JEIO Tech
Heratherm Microbial Incubator (for BSL1 and BSL2 organisms)	Thermo Fisher Scientific
37°C, 5% CO ₂ 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
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*	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	Agilent
Kingfisher Apex	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
Proflex Thermocycler PCR, w/ 3x32 and 96 well blocks	Thermo Fisher Scientific
Neon NxT Electroporation Device (Mammalian Cells only)	Thermo Fisher Scientific

Analytical Chemistry:

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

Bioanalytical Equipment:

Attune NxT Flow Cytometer w/ CytKick Autosampler Blue/Red/Yellow/Violet 6 4-Laser configuration	Thermo Fisher Scientific
Attune CytoPix Flow Cytometer w/ CytKick Autosampler w/ high-speed brightfield camera Blue/Red/Yellow/Violet 6 4-Laser configuration	Thermo Fisher Scientific
TapeStation 4150	Agilent

Plate Readers/Spectrophotometers:

Varioskan LUX Plate Reader	Thermo Fisher Scientific
NanoDrop One C	Thermo Fisher Scientific
Nanodrop Eight	Thermo Fisher Scientific
Nanodrop Ultra C FL	Thermo Fisher Scientific
QuickPlex SQ 120 Plate Reader	MSD

Electrophoresis/Imaging Systems:

iBright 1500	Thermo Fisher Scientific
Odyssey M	LI-COR
iBlot 3	Thermo Fisher Scientific

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

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	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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