

# Shared Equipment

100 Chestnut Street, Somerville

## Lab 343 | Main Suite

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### Electrophoresis Power Supplies

- PowerEase Touch 120W Power Supply
- Bio-Rad PowerPac HC Power Supply
- EC-105 Power Supply

### Microscopy & Imaging

- Olympus CK40 Inverted Microscope
- BioRad Chemidoc Imager
- Licor Odyssey Imaging System
- Nikon Eclipse TI-S Inverted Microscope

### Shakers, Mixers & Stirrers

- VWR 3500 Orbital Shaker
- VWR Mini Shaker
- 3x Scientific Industries Vortex Gene 2
- Fisherbrand Mini Vortexer
- VWR Advanced Hotplate/Stirrer
- Corning Nutating Mixer
- Thermo Cimarec Stirring Hotplate

### Incubator Shakers

- Thermo MaxQ 6000 Incubator Shaker
- Thermo MaxQ 4450 Incubator Shaker

### Quantification Instruments

- Nanodrop One Spectrophotometer UV-Vis
- Qubit 4 Fluorometer
- Thermo Orion Star A211 pH Meter

### Balances

- Ohaus Scout Balance SPX421
- Sartorius CP64 Balance

### Flow Cytometer

- Attune NxT Flow Cytometer

### Centrifuges

- Eppendorf Centrifuge 5430
- Eppendorf Centrifuge 5702R
- Sorvall Legend XTR Centrifuge
- Fisher Scientific AccuSpin Micro 17 Centrifuge
- 3x Labnet Mini Centrifuge
- Beckman Coulter Optima XE-90 Ultracentrifuge (Floor Centrifuge)
- Scilogex Low-Speed Centrifuge

### PCR & Thermal Cyclers

- QuantStudio 5 Real-Time PCR
- Biorad CFX96 Real-Time PCR
- Biorad T100 Thermal Cycler

### Water Purification

- Milli-Q IX 7005

### Microplate Tools

- Biotek Synergy H1 Hybrid Microplate Reader
- Biotek 405TS Touch Screen Microplate Washer
- Fisherbrand Digital Microplate Shaker

# Shared Equipment

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## Lab 343 | Shared Tissue Culture Suite

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### CO<sub>2</sub> Incubators

- 2x Thermo HERAcell Vios 160i Double Stack CO<sub>2</sub> Incubators

### Microscopy

- Nikon Eclipse TS100 Inverted Phase Contrast Microscope

### Water Baths

- Isotemp GPD 05 Water Bath

### Biosafety Cabinets

- 2x Thermo 1300 A2 Biosafety Cabinets

### Cell Counter

- Thermo Countess III FL Cell Counter

### Centrifuges

- Thermo Sorvall ST40R Refrigerated Centrifuge
- Eppendorf 5810R Centrifuge



# Shared Equipment

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## Lab 345 | Main Suite

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### Centrifuges

- Eppendorf Centrifuge 5424
- Eppendorf Centrifuge 5418
- Eppendorf Centrifuge 5417R
- Eppendorf Centrifuge 5430R
- Sorvall Legend X1R Centrifuge (with 15 mL, 50 mL, and microplate adapters)
- Eppendorf Centrifuge 5810R
- Sorvall Legend RT Centrifuge

### qPCR & Thermal Cyclers

- QuantStudio 3
- Applied Biosystems MiniAmp Thermal Cycler
- MJ Research Gradient Cycler

### Scales

- 2x High-Precision Scales (Mettler Toledo PR803, Cole-Parmer)
- Standard Scale (Sartorius)
- Large-Capacity Scale (Mettler Toledo MS32000L)

### Electrophoresis Power Supplies

- 3x Electrophoresis Power Supplies

### Water Baths

- 3x Water Baths
- Ultrasonic Bath 9.5 L (Fisherbrand)

### Water Purification

- MilliQ Water Purification System (Advantage50)

### Other Equipment

- Nicoya Alto SPR
- UVP-200 HybriLinker
- Labconco Lyophilizer

### Incubators

- 2x Shaking & Cooling Incubators (Thermo Scientific MaxQ 6000)
- Shaking Incubator (Thermo Scientific MaxQ 4000)
- Shaking Incubator (Labnet Vortemp56)
- Incubator (VWR Scientific)
- Quincy Lab 10-140 Analog Incubator

### Microplate Tools

- Plate Washer (BioTek EL406)
- Plate Readers:
  - SpectraMax i3
  - BioTek Synergy HT
  - MSD 1300 Plate Reader

### Shakers, Stirrers & Heat Blocks

- 3x Stirrers (includes 1 Hot Plate)
- 2x Orbital Shakers (Genie, Lab-line)
- 3x Dry Heat Blocks (Benchmark)
- Thermo Cimatec Stirring Hotplate

### Quantification Instruments

- Qubit 2.0 Fluorometer (Invitrogen)
- NanoDrop One Spectrophotometer
- Orion Star A214 pH Meter

### Imaging Systems

- E-Gel Imaging System (Life Technologies)
  - Blue light base
  - Ultraviolet base
- Li-COR Odyssey 9120 Imaging System
- Azure Biosystems 300

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# Shared Equipment

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## Lab 345 | Tissue Culture Suite

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### Centrifuges

- Eppendorf 5415C Centrifuge
- Beckman Coulter Allegra X-15R Centrifuge

### Microscopy

- Olympus CK40 Microscope
- Olympus CK2 Microscope

### CO<sub>2</sub> Incubators

- 4× Thermo HERAcell Vios 160i Double Stack CO<sub>2</sub> Incubators

### Biosafety Cabinets

- Thermo 1300 A2 Biosafety Cabinet
- LabGard Type 2 Biosafety Cabinet

### Water Baths

- Shell Lab H2O Water Bath
- VWR Water Bath

### Cell Counter

- Thermo Countess II FL Cell Counter



# Core Equipment



100 Chestnut Street, Somerville

The ADA Forsyth Institute maintains several core facilities that provide specialized equipment and expertise for its investigators and, on a fee-for-service basis, to researchers from other institutions. Their cores are experienced in handling sample types from all research areas and can customize services to fit your project needs. More information on The ADA Forsyth Institute website.

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## Advanced Microscopy Core

- Zeiss Axio Observer inverted microscope
- Zeiss LSM 780 confocal inverted microscope
- Zeiss LSM 880 confocal upright microscope
- Zeiss EVO 10 Scanning Electron Microscope

## Micro-CT Core

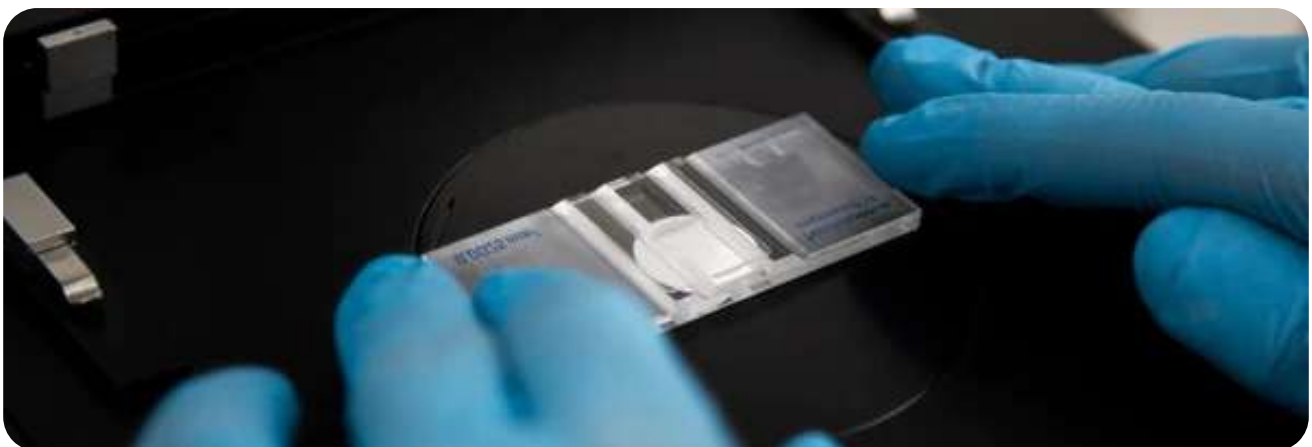
- Scanco  $\mu$ CT40
- Additional Cores:
- Biostatistics Core
- Oral Microbiome Core

## Flow Cytometry Core

- Invitrogen™ Attune™ NxT Flow Cytometer
- Beckman CytoFLEX SRT

## Multiplex Core

- Luminex 200 platform
- BioPlex 3D platform
- Bio-Rad Magnetic Plate Washer
- KingFisher Flex Magnetic automated instrument



# Special Access Equipment

100 Chestnut Street, Somerville



Separately from the standard “Core Facilities” available through The ADA Forsyth Institute, we have coordinated with the AFI team to provide special access to non-Core equipment for Hatch.Bio Labs resident companies at 100 Chestnut St. This equipment is available on-site and its use can be coordinated on a case-by-case basis for a similar fee to their standard Core Facilities.

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## Analytical Equipment

- ThermoFisher Ultimate 3000 HPLC
- Thermo Scientific iCAP 7200 Spectrophotometer
- ThermoFisher Integrion Ion Chromatograph
- B&W Tek iRaman and Portable Raman Spectrometer
- Tech Circle 6002 Osmometer Precision System
- BioTek Synergy 2 Plate Reader
- Konica Minolta CM2600D Spectrophotometer w/ Numerical UV Control
- Parhelia OT-2 Precision Tissue Staining Robotic Station
- Mettler Toledo Conductivity/Ion Meter
- Malvern NanoSight Pro
- Biolin Scientific Qsense Analyzer Quart Crystal Microbalance
- VWR UV-1600PC Spectrophotometer
- Analytik Jena UVP Chemstudio

## Analytical Equipment (Cont.)

- Thermo Scientific Evolution 220 UV-Vis Spectrophotometer
- Rigaku SmartLab SE X-Ray Diffractometer

## Cell Biology

- Bio Rad CFX Connect Optics Module qPCR
- StepOne Plus RT-PCR
- 10X Genomics Chromium X/iX
- PureLab HE1250 2-glove Anaerobic Chamber
- Coy 7050001R Anaerobic Chamber
- SimpliAmp EN61326 PCR
- Akoya Biosciences PhenoCycler Fusion 2.1

## Imaging

- Zeiss LSM 800 Confocal Microscope
- LEICA DMI8 3D Thunder
- Horiba Scientific Xplora Raman Confocal Microscope
- JEOL JCM-6000 SEM w/ EDX + gold sputterer

# Special Access Equipment

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## Specialized Access List Continued

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### Processing & Prototyping

- Biostar MiniSTAR S Dental Thermoformer
- Buchi B-191 Mini Spray Dryer
- Cellink 3D Bioprinter
- Formlabs Fast Cure 3D Printer Curing Station
- DigitalSign Printhead Doctor 11 Solvent Removal Station
- Medit MD-10400 3D Scanner
- Tormach PCNC 1100 Series 3 Vertical Milling Machine
- Anycubic Wash&Cure 3D Printer Curing Station
- Elegoo Saturn4 Ultra 3D Printer DLP 12k Resolution
- Phrozen Sonic 8K Mini 3D Printer DLP 8k Resolution
- FormLabs Form 4B 3D Printer DLP w/ 50  $\mu$ m pixel
- Stratasys Mojo 3D Printer FDM
- Bambu X1C 3D Printer FDM
- Raise 3D Pro2 3D Printer FDM

### Mechanical

- TA Instruments ElectroForce 3200 Fatigue Machine
- BYK-Gardner PF 5545 Impact Tester
- Tinius 104 Pendulum Impact Tester
- Instron 5582 Mechanical Testing Apparatus w/ MTS controller
- Mark-10 ESM303 Mechanical Tester
- Buehler Vickers Microhardness Tester
- Buehler Micromet II Digital Micro Hardness Tester
- NIST Tensometer
- Instron 5564 Universal Mechanical Tester
- Instron Instru-Met 1122 Universal Mechanical Testing Apparatus
- SD Mechatronik CS 4.8 Professional Wear / Fatigue Chewing Simulator
- Instron E92 Wilson Hardness Tester