

EQUIPMENT & ROOM RESPONSIBILITIES LIST

Updated: January 2007

Bioengineering & Biotechnology Center

(a) All labs in the Science and Technology Center and the 200 Boston Avenue facility are run collaboratively with Biomedical Engineering, Chemical & Biological Engineering, Physics, Chemistry, Biology or combinations thereof

(b) Only full time graduate students, post doctoral fellows, and visiting and full time faculty are listed; not part time graduate students or undergraduate students

(c) Core labs are '*italicized*'

Room 119 – *Bioengineering AFM Lab*

Responsible Individual – Mark Cronin-Golomb

Equipment: AFM – Olena Rabotyagova
CD – Xiaoqin Wang

Room 155 – *Nanobiofabrication Laboratory*

Responsible Individual - Hyunmin Yi

Users - Hyunmin Yi, Christina Lewis, Amy Manocchi, Cheryl Goldwasser

Equipment: Beckman L90k ultracentrifuge – Hyunmin Yi
Olympus BX 51Upright fluorescence microscope w/ digital imaging – Hyunmin Yi
Beckman Allegra X15R benchtop centrifuge – Hyunmin Yi

Room 157 – *Protein Processing & Chemistry Lab [NIH/TERC]*

Responsible Individual – Xianyan Wang

Users - Carmen Preda, Hyeon Joo Kim, Xiaoqin Wang, Kate Cyr, Jon Kluge, Eleanor Pritchard, Olena Rabotyagova, David Phillips

Users (gel room) - Olena Rabotyagova, Hyeon Joo Kim, Mike Mercaldi, Hanna Dams-Kozłowska

Equipment: Electrospinning, Sonicator – Xianyan Wang
Syngene Bioimaging system – Hanna Dams-Kozłowska
Transilluminator – Hanna Dams-Kozłowska

Room 162 – *Molecular Biology Lab*

Responsible Individual – Hania Dams-Kozłowska

Users – Olena Rabotyagova, Jen Hogan, Amanda Murphy, Joe Platko

Equipment: Micro Centrifuge – Olena Rabotyagova
MilliQ Water System – Hania Dams-Kozłowska

Room 164 – Bioengineering Research Lab/Microbial Physiology/Molecular Biology Lab

Responsible Individual – Bruce Panilaitis

Users – Mike Mircaldi, Mike Curtis

Equipment: Thermocyclers – Bruce Panilaitis
GC – Mike Curtis
Electroporator – Hania Dams-Kozłowska

Room 166 – Bioengineering: Teaching Lab – Lab Courses [spring: CBE168, summer: CBE/BME/BIO163; fall: BME/CBE/BME175 –tissue engineering lab; year round: senior projects]

Responsible Individuals – Bruce Panilaitis, Carmen Preda, Martin Hunter

Equipment: Fermentor – Matt Dallas
Shakers, Incubators, UV/VIS Spec, Microtiter Plate Reader –Bruce Panilaitis
UV Spectrometer – Bruce Panilaitis
Tissue Culture Hood and Incubator – Bruce Panilaitis

Room 168 – Equipment Lab Area

Responsible Individual – Bruce Panilaitis

Users – Bruce Panilaitis, Chris Hunt, Mike Curtis

Equipment: Centrifuges – Bruce Panilaitis
Autoclave – Chris Hunt
Lyophilizer – Mike Curtis
French Press – Currently out of operation

Room 221 – Biophysical Characterization Laboratory [Keck/DURIP Lab]

Responsible Individual – Peggy Cebe

Users – Peggy Cebe, Xianyan Wang, Amanda Murphy, Xiao Hu, and Lei Yu

Equipment: FTIR – Xiao Hu
X-ray – Terry Haas
Dynamic Mechanical Analyser(RSA III) – Lei Yu
Rheometer (ARES) – Lei Yu
DSC (Q100) [Rm 219] – Huipeng Chen
TGA (Q500) [Rm 219] – Huipeng Chen

Room 224 – Biomedical Engineering Research Lab

Responsible Individual - Mark Cronin-Golomb

Equipment: Argon and CW Ti:sapphire lasers - Mark Cronin-Golomb
Optics, Optical Tables – Mark Cronin-Golomb
Optical Tweezers – Mark Cronin-Golomb
Light Scattering – Mike Curtis

Room 225 and half of 260 – Biomedical Engineering Research Lab

Responsible Individual - Irene Georgakoudi

Users – Jon Levitt, Bill Rice, Claudia Mujat, Cheery Greiner

Equipment: Inverted fluorescence microscope – Jon Levitt
UV fluorescence microscope and In vivo flow cytometer – Cherry Greiner
Angular light scattering spec – Claudia Mujat
Multiphoton/confocal microscope – Bill Rice and Jon Levitt

Rooms 235, 252, 253, 254, 256, 258 - Biomedical Engineering Teaching Laboratory

[BME156, 100, 101, 131, 150, student projects]

Responsible Individual – Martin Hunter

Users – Toi Vo, Irene Georgakoudi

Equipment: Electrical and mechanical instruments – Toi Vo
Nd:YAG laser – Irene Georgakoudi

Rooms 241 and 259 – Biomedical Engineering Research Lab

Responsible Individual – Toi Vo

Users – An Dinh, Vu Tran

Equipment: Electronic equipment (power supplies, oscilloscope, etc.)

Rooms 255, 257, and half of 260 - Biomedical Engineering Research Lab

Responsible Individual – Sergio Fantini (all equipment)

Users – Ning Liu, Yunjie Tong, Debbie Chen, Yang Yu, Angelo Sassaroli

Equipment: Frequency-domain tissue spectrometer
High-precision 3-D mechanical scanner
High sensitivity CCD camera
Ar-Ion Laser, High-Power Arc Lamp System
Network Analyzer
Digital Oscilloscope
Spectrophotometer

Room 277 – Tissue Engineering Laboratory [NIH/TERC]

Responsible Individual – Carmen Preda,

Users – Trang Nguyen, An Dinh, Vu Tran, Marie Tupaj, Jen Kang

Equipment: Leitz microscope – Xiaoqin Wang
Denver Instruments balance – Jon Levitt
All centrifuge models – Xiaohui Zhang

Room 283 – Bioengineering - Cell/Tissue Culture Lab

Responsible Individual – Mike Lovett

Users – Lin Sun, Xiaohui Zhang, Carmen Preda, Jen Kang, Hyeon Joo Kim, Xiaoqin Wang,
Bill Rice, Michaela Reagan

Equipment: Light microscopes – Xiaoqin Wang
Refrigerated centrifuge – Xiaohui Zhang
Bench top roller – Xiaohui Zhang

Room 284 – Metabolic Engineering Equipment Lab

Responsible Individuals – Kyongbum Lee, Blaine Pfeifer

Equipment: HPLC/GPC – Yaguang Si

Room 285 – Bioengineering - Tissue Engineering Lab

Responsible Individuals – Sarah Sundelacruz, Greg Altman

Users – Jon Kluge, Brian Lawrence, Sarah Sundelacruz, Adam Collette, Jon Levitt

Equipment: Microfuge – Xiaohui Zhang
PCR and Real Time RT-PCR – Sarah Sundelacruz
Fluorescence microscope w/ color video camera/monitor – Xiaoqin Wang
ETO gas sterilizer system – Brian Lawrence
Vacuum oven – Brian Lawrence

Room 286 – Chemical & Biological Engineering - Microbial Cell Metabolic Eng. Lab

Responsible Individual – Blaine Pfeiffer

Equipment: HPLC
Bioreactor

Room 287 – Chemical & Biological Engineering - Tissue Metabolic Engineering Lab

Responsible Individual – Kyongbum Lee

Users – Yaguang Jeongah

Equipment: Inverted microscope (fluorescence capability) – Kyongbum Lee
Multi-well plate reader (fluorescence and absorbance reader) – Kyongbum Lee
M-Q water purification system – Kyongbum Lee

Room 288 – Bioengineering - Cell Storage

Responsible Individuals – Carmen Preda, Bruce Panilaitis

Users – David Kaplan, Greg Altman, and Georgakoudi and Vo research group members

Equipment: Large freezers and refrigerators
Nitrogen and assorted gas tanks

200 Boston Avenue, Suite 2100 - Laboratory 3

Responsible Individual – David Kaplan

Users – Gary Leisk, Jonathan Kluge, Brian Lawrence

Equipment: Berkman Cold Centrifuge – Brian Lawrence

200 Boston Avenue, Suite 2100 - Biomimetic Devices Lab (Labs 4, 5 and 6)

Responsible Individual – Barry Trimmer

Users – Gary Leisk, Jonathan Kluge, Brian Lawrence, Daniel Rogers, Huai-Ti Lin

Equipment: Instron Materials Testing Machine – Jonathan Kluge
Textile Winding Machine – Jonathan Kluge
Roland MDX-40, 4 axis CNC - Trimmer
Roland LPX-600 Three-dimensional laser scanner - Trimmer
Roland CX Vinyl cutter- Trimmer
Small drill press, horizontal band saw and lathe – Peter Wong
Electronics lab bench with oscilloscopes, signal generators, amplifiers, power supplies and filters etc. - Trimmer
Vacuum pump and elastomer casting facilities – Trimmer
High temp. micro furnace (for SMA heat setting) - Trimmer
Percival insect incubator – Trimmer
Small optical bench top, 2 Elura Camcorders and optical rail accessories

Responsibility for equipment means:

Maintenance
Scheduling and running training
Approving new users
Maintenance of a log book if needed
Maintenance of core supplies and replacement parts
Contacting technical representative of vendor as needed
Proper safety in and around the equipment
Maintaining service contracts if appropriate

Designated Core Labs [supported in part by Bioengineering & Biotechnology Center resources]:

Providing appropriate training (equipment, hazardous wastes) prior to use of lab

Providing access to facilities by outside users to perform experiments

Providing technical expertise to outside users as appropriate

Providing instrumentation support/repairs/maintenance resources

Other Notes: Much of the routine equipment such as laminar flow hoods, small centrifuges, incubators, shakers, refrigerators, etc. are not delineated in the list as they are presumed to be the responsibility of each individual lab.

Responsible Person	Email	Extension *
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***Located in the Science and Technology Center unless otherwise specified**