

Facilities & Other Resources of Interest to BioMed Postdocs

Brown University's Division of Biology and Medicine comprises the Program in Biology, the Medical School, and the Program in Public Health. This handout provides a brief summary of facilities and resources available.

The Office of Graduate and Postdoctoral Studies within the Division of Biology and Medicine was created in January 2006 to focus on and enhance the training environment for the roughly 320 graduate students and 120 postdocs within the Division of Biology and Medicine. <http://biomed.brown.edu/grad-postdoc/>

RESEARCH FACILITIES

Postdocs and Graduate Students benefit from a wide range of well-equipped, cutting edge facilities, instrumentation, and other resources to support their research. These facilities located throughout the campus are linked by a frequent shuttle bus service. Below is a listing and short description of our major facilities. Additional information may be obtained at <http://bms.brown.edu/research/Core.pdf>; <http://research.brown.edu/research/centers.php>; and <http://research.brown.edu/research/labs.php>

Sidney Frank Life Sciences Building, 60 Olive Street. This new 173,000 gross square foot building, occupied in November 2006, consolidated most of the Division's wet lab research space in one city block. The building contains 34 labs and 51 lab modules. It also features a new Magnetic Resonance Imaging (MRI) facility housing a whole-body 3T MRI system and eventually a small bore, high-field 9.4T MRI system, as well as a state- of-the-art electron microscopy facility.

The Laboratories for Molecular Medicine, 70 Ship Street. The lab is composed of 105,000 square feet devoted to research in genetics, genomics, proteomics, structural biology, pharmacology, and pathology.

Program in Public Health, 121 South Main Street. The Brown Program in Public Health collaborates with centers, institutes, organizations, and agencies throughout the state and region. The research and training section recently relocated to this newly acquired building. The facility includes research and instructional space and houses the Center for Statistical Sciences.

Biomedical Center, 171 Meeting Street, corner of Olive Street. Immediately adjacent to the Sidney Frank Life Sciences Building, this building houses research laboratories for several departments and faculty.

Sciences Library: Provides access to both print and electronic resources.

- ◆ Access over 20,000 online journals
- ◆ The brand new \$4M Friedman Study Center (1/25/07) is a 24/5 student study space
- ◆ Search Medline, Biological Abstracts, and other databases linked directly via "SFX" or "Find it @ Brown"
- ◆ Access over 100,000 e-books: <http://dl.lib.brown.edu/eresources/ebooks.php>
- ◆ Access interdisciplinary databases such as Academic Search Premier, Lexis/Nexis and Web of Science
- ◆ Interlibrary loan services
- ◆ Use of EndNote and RefWorks, bibliographic management programs.
http://www.brown.edu/Facilities/University_Library/eresources/refworks.html
- ◆ Contact Tovah Reis for further information

Animal Facility. Brown University has a centralized laboratory animal facility with animal housing and support areas. The animal program is under the direction of veterinarians who are board certified by the American College of Laboratory Animal Medicine. The facility accommodates a broad range of laboratory animal species. All research involving animals must be approved by the Institutional Animal Care and Use Committee. Directed by James S. Harper, III, V.M.D.

Mouse Transgenic and Knockout Core. Laboratories for Molecular Medicine, 70 Ship Street. This core handles both pro-nuclear injections of fertilized eggs and injections of embryonic stem cells into the blastocysts. Guidance is provided in experimental design and targeting vector construction. Individual investigators are responsible for genotyping, husbandry, and breeding of generated mouse strains.

Computing Services, Arnold Laboratory, 97 Waterman Street. Clifford Hirschman, BioMed Director. Division Computing Services Office supports instructional, administrative, and research-based technology needs for both campus- and hospital-based faculty and staff. <http://biomed.brown.edu/cso/>

Center for Statistical Sciences, 121 Main Street. The primary mission of the Center for Statistical Sciences (CCS) is to provide a focus of statistical expertise for the Brown research community and to foster research and statistical education at Brown. <http://www.stat.brown.edu/>

Biomolecular Nuclear Magnetic Resonance Facility, Located at 70 Ship St, the Biomolecular NMR Facility houses three Bruker NMR instruments operating at 400, 500, and 600 MHz. The main use of these NMR instruments is high- resolution NMR spectroscopy of biomacromolecules,

Genomics and Bioinformatics Core, Laboratories for Molecular Medicine, 70 Ship Street. Cristoph Schorl, Ph.D., Director. The centerpiece of this core is the Affymetrix Gene Chip workstation, staffed by a full-time Ph.D.-level specialist.

Water Flume, Biomedical Center, 171 Meeting St., Room 024. The Department of Ecology & Evolutionary Biology was awarded a grant from the NSF to establish a core research facility for a 3,500-gallon water flume. Principal investigators use the flume to replicate situations normally found in the field.

Plant Environmental Center, 91 Waterman Street. The Center, supported by the Department of Ecology and Evolutionary Biology, is a growing facility devoted to plant biology research. Spread out over 4,000 square feet, the space includes a teaching plant collection, a classroom laboratory, 4-E7/2 conviron plant growth chamber, 100-sq-ft. walk-in growth chamber, and a hothouse for planting and demonstrations.

Bioimaging Facility. There are two locations for bioimaging services: the Laboratories for Molecular Medicine, and the Biomedical Center. These facilities provide equipment and instruction dedicated to high-resolution imaging in the life sciences.

Molecular Pathology Core Research Laboratory, 70 Ship Street. The research laboratory includes a Fujix Bas 1000 phosphoimager, a Nikon Eclipse TS100 inverted fluorescence microscope, a Nikon E800 microscope and digital camera, and an Arcturus PixCell II laser capture microdissection system.

Rhode Island NSF/EPSCoR Center for Proteomics, 70 Ship Street. This facility is sponsored by a recently awarded NSF/EPSCoR grant. http://biomed.brown.edu/epscor_proteomics/index

Another Brown Resource of Interest:

Writing Center, Rockefeller Library, Room 206, Prospect Street, Douglas Brown, Director. A free academic support service for all members of the Brown Community. In addition to holding one-on-one conferences, Writing Center Associates offer various workshops on writing for interested groups. http://www.brown.edu/Student_Services/Writing_Center/