Tufts Launchpad | Biolabs members can take advantage of a number of core facilities housed within the Tufts University ecosystem
Tufts Launchpad | Biolabs is Boston’s premier, fully equipped, coworking and shared lab space that provides startups with the infrastructure and equipment they need to build their biotechs.

Tufts Launchpad | Biolabs fosters a unique, entrepreneur-centered ecosystem where biotechs can test new ideas, innovate in the face of complex challenges, and reach their milestones faster.

Tufts Launchpad | Biolabs is located on the 14th floor of 75 Kneeland Street in the heart of the Tufts Health Sciences Campus in Boston. The space is fully equipped with wet lab, private lab, and office space. It has over 15,000 square feet of rentable space and a host of equipment and service offerings.
### Tufts Comparative Medicine Services (formerly Division of Laboratory Animal Medicine)

**SERVICES** Consultation services for all animal and tissue experiments performed on Tufts Boston campus; coordinated access to Technical and Veterinary Assistance, Animal Model Development, Experimental Design, Rodent Breeding Service, Pathology/Histology cores, Surgical and Interventional Research Laboratories, Husbandry and Operations, Rodent Behavioral Core, and Small Animal Imaging Preclinical Testing Facility

**FEATURES** AAALAC-accredited animal facilities (housing and procedure rooms); centralized administration and finance for ease of use of affiliated cores; dedicated staff

**CONTACT**
- Scott E. Perkins, VMD, MPH, ACLAM  
  617.636.5615  
  scott.perkins@tufts.edu
- Corinna Beale, DVM, SRS  
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  corinna.beale@tufts.edu
- Michael Esmail, VMD, ACLAM  
  617-636-8165  
  michael.esmail@tufts.edu

### Body Composition Analysis Center

**SERVICES** Analysis of computerized tomography scans and x-ray absorptometry

**FEATURES** Expert in determination of bone, fat, and soft tissue levels in subjects

**CONTACT** Roger A. Fielding  
roger.fielding@tufts.edu
Flow Cytometry

SERVICES
Walk-up FACS analysis services available on 3 instruments.
Up to 5 laser lines, and thirteen fluorescent parameters, also
with a High-Throughput 96-well-plate reader option

Cell Sorting services run by our staff on several platforms.
Up to 5 laser lines, and sixteen fluorescent parameters, with
up to 4 way sorting, or multi-well plate deposition options

FEATURES
Analytic equipment includes: LSR2 (SORP) with HTS;
FACSCalibur (all BD instruments)

Sorting equipment includes: FACSaria (retro-built
ARIA3 equivalent, by BD); and 2 Legacy MoFlo
(by Beckman Coulter)

CONTACT
Allen Parmelee, Manager
617.636.0464
allen.parmelee@tufts.edu

Stephen Kwok, Cytometrist
617.636.6676
stephen.kwok@tufts.edu

Cummings Laboratory Animal Medicine Service

SERVICES
Ensure animal studies done on campus comply with
local, state, and federal policies and regulations

FEATURES
Consultation with veterinarians and staff available

CONTACT
Department of Environmental and Population Health
508.887.4341
HNRCA Clinical & Analytical Core Lab (CACL)

SERVICES  Full service analytical lab with a comprehensive program in clinical chemistry and biochemistry. Comprised of the Nutrition Evaluation Lab (NEL) and Mass Spectroscopy Lab (MSL). Offers scientific investigators an extensive biochemical test menu, specimen handling services and analytical study design assistance

FEATURES  The NEL’s state and federally licensed Clinical Unit provides measures for hematology, blood chemistry, and urinalysis markers. The NEL’s Special Chemistry Unit and the MSL provide tailored analytical services for a full array of biochemical markers with analytical expertise in UV/vis spectroscopy, immunoassays, HPLC, UPLC-MS/MS and emission spectroscopy

CONTACT  Gayle Petty, MBA  
Manager, NEL  
617.556.3167  
gayle.petty@tufts.edu

Gregory Dolnikowski, PhD  
Manager, MSU  
617.556.3298  
gregory.dolnikowski@tufts.edu
## New England Regional Biosafety Laboratory

**SERVICES**  Facility for work on BSL-3 pathogens; GLP compliant; animal facilities (rodent, gnobiotic piglet, birds, etc.)

**FEATURES**  Aerobiology suite; insectary; confocal microscope; in vivo imaging system

**CONTACT**  Sam Telford, III, PhD  
508.887.4236  
sam.telford@tufts.edu

## Pathology Laboratories

**SERVICES:**  Histology Laboratory: Animal histology and comparative pathology services including cryosectioning, routine paraffin embedding and sectioning, IHC and special stains for necropsy, biopsy and research specimens  
Clinical Pathology Laboratory: Hematology, clinical chemistry (serum and urine), fecal analysis, fluid and cytology, T4 and cortisol assays  
Please contact laboratory for account setup, sample submission guidelines and pricing prior to submitting samples

**FEATURES:**  Medical Technologists, Histotechnologists and board-certified Pathologists

**CONTACT:**  Cheryl Stockman  
Clinical Pathology  
Office: 508-887-4267  
Lab: 508-887-4669  
cheryl.stockman@tufts.edu  

Frances Brown  
Histology Laboratory  
Lab: 508-887-4807  
frances.brown@tufts.edu
# Phoenix Laboratory

**SERVICES**
Microbiome research support (sample preparation, storage); competent cells; protein purification (affinity); bacterial virulence factor purchase; up to 10L cell culture (including enteropathogens); plasmid preparation

**FEATURES**
New Brunswick Bioflow 4500 fermentor; cell press; microaerophilic culture capabilities (including for pathogens)

**CONTACT**
Anne Kane, MD  
617.636.7611  
akane@tuftsmedicalcenter.org

# Preclinical Drug Evaluation and Neurotransmitter Kinetics

**SERVICES**
Ex vivo and in vivo methods to assess neurotransmitter kinetics in real time; carbon fiber amperometry; brain stereotactic surgery and injections; brain microdialysis in freely moving animals; mouse and rat models of addictive, metabolic, neurodegenerative and neuropsychiatric disorders

**FEATURES**
Neuropharmacologist and electrophysiologist with extensive experience in carbon fiber microelectrode use and assessment of neurotransmitter exocytosis, metabolism and kinetics in cell cultures, brain slices and living animals. Unique combination of assays to identify central and peripheral effects of preclinical drug candidates

**CONTACT**
Emmanuel N. Pothos, PhD  
617.636.6778  
emmanuel.pothos@tufts.edu
Small Animal Imaging Preclinical Testing Facility

**SERVICES** Imaging equipment and expertise; animal care and handling (including administration of therapeutics); safety, efficacy, PK/PD analyses; surgical procedures; animal models

**FEATURES** Multiple luciferase xenograft syngeneic rodent cancer models; Bruker IT ICON MRI; PerkinElmer IVIS Spectrum CT; Skyscan 1176 InVivo Micro CT; Visual Sonics Vevo 2100 ultrasound; Leica Stereo fluorescence microscope. Multiple collaborations with pharma/biotech

**CONTACT**
Min Fang, PhD
617-636-6624
min.fang@tufts.edu

Surgical and Interventional Research Laboratories

**SERVICES** Full service surgical and interventional procedures in live animal and cadaver models; animal model development and support; research, teaching and prototype development labs

**FEATURES** Physician-, veterinarian- and PhD-level support staff; access to much of the Tufts ecosystem for consultation

**CONTACT**
Corinna Beale, DVM
617.636.4148
corinna.beale@tufts.edu
**Tufts Center for Neuroscience Research**

**SERVICES** The CNR is located within the TUSM Department of Neuroscience; it provides core research services

Research Cores include:
- Circuits and Behavior
- Genomics
- Imaging

**FEATURES** CNR-supported core facilities offer services for biological imaging, nucleic acid quantification, real-time PCR (RT-PCR) and rodent behavioral testing

**CONTACT**
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- Andrew Tarr
  andrew.tarr@tufts.edu
- Alenka Lovy
  alenka.lovy@tufts.edu

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**Tufts Comparative Pathology Services**

**SERVICES** Research animal histology and comparative pathology services. Cryosectioning, routine paraffin embedding and sectioning, IHC, interpretation, scoring, photodocumentation

**FEATURES** Board certified veterinary pathologist, ASCP certified histotechnologist (HTL and QIHC), animal pathology technician, consultation, study design, tissue collection

**CONTACT**
- Lauren Richey, DVM, PhD, DACVP
  617-636-6488
  lauren.richey@tufts.edu
Tufts NMR Center

SERVICES NMR facilities, training, and consultation

FEATURES Bruker Avance 600; Bruker DPX-300

CONTACT Jim Baleja, PhD
617.636.6872
jim.baleja@tufts.edu

Tufts University Core Facility

SERVICES DNA sequencing (Sanger, NGS); DNA synthesis; peptide sequencing and synthesis MALDI-TOF analysis

FEATURES Fast turnaround time; Illumina MiSeq (x2), NextSeq 550 and HiSeq 2500 NGS systems; 10X Genomics Chromium Single Cell Analyzer; Fluidigm C1 and BioMark HD system, Tecan NGS WorkStation; Covaris M220; SAGE Bioscience Pippin HT; Qiagen QIASymphony SP/AS; AATI Fragment Analyzer; Beckman Biomek 3000 liquid handlers coupled to ABI 3130XL Sanger Sequencers; ABI 494 Protein Sequencers; Applied Biosystems Voyager DE Pro MALTI-TOF Mass Spectrometer

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