

QUICK GUIDE TO ANIMAL RESEARCH AT THE UNIVERSITY OF CALIFORNIA, BERKELEY

Initiating animal research at the University of California (UC), Berkeley can feel overwhelming as an investigator. This guide provides basic information about the relevant offices and services that are available on campus to help you in your research!

Office	How can we help you?	Contact Information
<p>Animal Care and Use Committee (ACUC)</p> <p style="text-align: center;">&</p> <p>Office for Animal Care and Use (OACU)</p>	<p>Functions</p> <ul style="list-style-type: none"> • IACUC approval for grant proposals/contracts, and Sponsored Research Agreements • Basic information on custom antibodies use, grants/contracts using animals • Animal Occupational Health and Safety Program (AOHSP) • Site inspections • Investigating and reporting (as needed) suspected animal concerns and deficiencies <p>Animal Use Protocols (AUPs)</p> <ul style="list-style-type: none"> • Consultations • AUP submission and review procedures • ACUC meeting dates and submission deadlines • Personnel updates • Technical issues with eProtocol software <p>Training</p> <ul style="list-style-type: none"> • Mandatory training requirements [e.g., Collaborative Institutional Training Initiative (CITI) courses, Occupational Health Surveillance System (OHSS)]. • <i>Ethics in Animal Research</i> presentation for classes using animals <p>Published Information</p> <ul style="list-style-type: none"> • Animal-related policies and guidelines • Useful links to organizations, societies, publications, etc. • Accreditation and Assurance information 	<p>Email: acuc@berkeley.edu</p> <p>Phone: (510) 642-8855</p> <p>Website: https://acuc.berkeley.edu/</p>

Office	Information	Contact information
<p>Office of Laboratory Animal Care (OLAC)</p>	<p>Animals & AUPs</p> <ul style="list-style-type: none"> • Veterinary consultations for procedures, drugs, etc. used in AUPs • Veterinary care and oversight • Animal housing and quarantine <p>Forms</p> <ul style="list-style-type: none"> • Key card forms for OLAC facility access • Animal purchase/acquisition, transfer and shipping requests • Non-animal purchase order forms • Pharmaceutical requests • Research service requests • Workers compensation and accident forms <p>Training</p> <ul style="list-style-type: none"> • Animal facility user safety training • “Working Safely with Nonhuman Primates” and “Bat Safety” training • Procedure-specific training 	<p>Email: olac@berkeley.edu</p> <p>Phone: (510) 642-9232 (<i>office hours</i>) (510) 643-8387 (<i>emergency</i>)</p> <p>Website: https://www.olac.berkeley.edu/home</p> <p>Email: olactraining@berkeley.edu</p> <p>Website: https://www.olac.berkeley.edu/training</p>
<p>Occupational Health Clinic (part of the Animal Occupational Health and Safety Program or AOHSP)</p>	<p>Risk and Health Assessment</p> <ul style="list-style-type: none"> • Work-related injuries/illnesses/allergies • OHSS online form access and information • Risk and health assessment to work with animals and hazardous agents <p>Safety/Medical Programs and Services</p> <ul style="list-style-type: none"> • Prevention programs • Nonhuman Primate and Bat Exposure Program • Medical surveillance/screening • Immunizations and routine systemic vaccination titers • Physical examinations 	<p>Email: occupational_health@lists.berkeley.edu</p> <p>Phone: (510) 642-6891</p> <p>Website: https://uhs.berkeley.edu/bewellatwork/occhealth</p>

Office	Information	Contact information
Stem Cell Research Oversight (SCRO) Committee	<p>Review and Oversight</p> <ul style="list-style-type: none"> • Use of human pluripotent stem cells including: human embryonic (hESC) and induced pluripotent stem cells (iPSC) • Both in vitro and in vivo use 	<p>Email: Suzanne Stone (SCRO_Office@berkeley.edu)</p> <p>Website: https://rac.berkeley.edu/scro.html</p>
Sponsored Projects Office (SPO)	<p>Proposals</p> <ul style="list-style-type: none"> • Overview of Federal, State of California, and University regulations and compliance requirements • Search tools for identifying external funding opportunities • Overview of campus policies pertaining to the submission of proposals and acceptance awards • Proposal review, authorization and submission • Collecting forms and information for relevant campus compliance committees <p>Pre- and Post-Award Stages</p> <ul style="list-style-type: none"> • Links to internal campus pre-award and post award forms • UC and campus pre-award and non-financial post award policy and procedure guidance • Award negotiation, acceptance, and award set up • Establishment of sub-agreements • Processing non-financial post award requests/transactions • Representing the campus in response to proposal and award related questions from external sponsors • Coordinating required closeout reports • Responding to and/or coordinating campus response to external auditors 	<p>Email: spoawards@berkeley.edu or your SPO CGO (https://spo.berkeley.edu/staff.aspx)</p> <p>Phone: (510) 642-0120 or your SPO CGO (https://spo.berkeley.edu/staff.aspx)</p> <p>Website: https://spo.berkeley.edu</p>
Office of Intellectual Property and Industry Research Alliances (IPIRA) Industry Alliances Office (IAO) and Office of Technology Licensing (OTL)	<p>IAO:</p> <ul style="list-style-type: none"> • Incoming Material Transfer Agreements (MTAs) and Data Use Agreements (DUAs) for materials and data provided to Berkeley • Sponsored Research Agreements (SRAs) and collaboration with Industry <p>OTL:</p> <ul style="list-style-type: none"> • Material Transfer Agreements (MTAs) and Data Use Agreements (DUAs) for materials and data shared by UC Berkeley 	<p>Email: MTA@berkeley.edu</p> <p>IAO@berkeley.edu (receiving materials from an external organization)</p> <p>OTL@berkeley.edu (sending materials to an external organization)</p> <p>Website: https://ipira.berkeley.edu</p>

AVAILABLE RESEARCH SERVICES ON CAMPUS

The information below outlines some of UC Berkeley's centers and facilities that offer services to investigators in order to facilitate research and collaborations that use animals. Please remember that an AUP is required to before starting any animal work!

Centers, Facilities & Machines	Services	Contact Information
Cancer Research Laboratory https://crl.berkeley.edu/molecular-imaging-center/	Gene Targeting Facility <ul style="list-style-type: none"> • Offer technical advice and assistance to investigators with in vivo manipulation of the mouse embryo • Pronuclear DNA injection- transgenic mouse • Generation of genomic edited mouse using CRISPR • Mouse sperm cryopreservation 	Email: Angus Lee (ayflee@berkeley.edu) Phone: 510-642-3063 Website: https://crl.berkeley.edu/gene-targeting-facility/
	Flow Cytometry Facility <ul style="list-style-type: none"> • Offering state-of-the-art High-Dimensional (Hi-D), up to 64 parameters, FACS analysis & sorting. • Expertise in FACS, Immune-phenotypes and Regenerative medicine/stem cell. • We provide training on Aria Fusion, Fortessa, X20, LSR II, Cytex Aurora. • We provide single cell sorting & up to 6 way sorting simultaneously. • Our facility is highly collaborative. Your imagination is the limit! 	Email: Kertoosh Heydari (kartooshheydari@berkeley.edu) Phone: (510) 642-2843 Website: https://crl.berkeley.edu/flow-cytometry-facility
	Molecular Imaging Center <ul style="list-style-type: none"> • Specializes in live cell imaging, confocal, multi-photon, fluorescent lifetime imaging (FLIM), and equipment for optogenetic research • Provides access to state-of-the-art microscopy and imaging equipment • Provides imaging expertise, collaboration, and services • Provides training/assistance in basic/advanced light microscopy techniques • Provides ongoing technical consultation and support 	Email: micTraining@lists.berkeley.edu Contacts: Holly Aaron, Feather Ives, and Luis Alvarez Phone: (510) 643-8069 Website: https://crl.berkeley.edu/molecular-imaging-center/

Centers, Facilities & Machines	Services	Contact information
QB3 Cell and Tissue Analysis Facility (CTAF)	<p>Provides all of the cell culture equipment needed to grow and assess mammalian cells and tissues, especially stem cells involved in regeneration and repair</p> <ul style="list-style-type: none"> • Use of mammalian cell culture room with Biospherix hypoxia/normoxia/hyperoxia chambers inside one of the incubators • Use of histology suite: Cryostar NX50 cryosectioning, sliding microtome for fresh tissue sectioning, and paraffin sectioning, for your use or as a service. • Use of the Miltenyi cell dissociator, BioRad CFX qPCR and Electroporator (for embryo CRISPR editing) or other experiments, and Luminex multiplex immunoassay system (Bioplex) to study serum cytokine levels or other pathway family targets • Use of the Attune flow cytometer analyzer, and Molecular Devices ImageXpress Micro XLS automated Epifluorescent microscope and Agilent/Biotek LionHeart for multiwell plates and histology slides, live cell imaging under normal or hypoxia conditions along with advanced image analysis software • Bruker 2P Plus (Multi photon) and Swept Field Confocal upright microscope for easy fluorescence marker scoring, Z-stacks, tiling, single-molecule tracking with both water and oil high NA objectives; for organoid, tissue regeneration, biomaterials, and slide imaging. 	<p>Email: Mary West (mwest@berkeley.edu) Phone: (510) 664-4112 Website: https://qb3.berkeley.edu/facility/ctaf-htsf/</p>
Biological Imaging Facility	<ul style="list-style-type: none"> • In Vivo Imaging System-IVIS Spectrum 	<p>Email: Steven Ruzin (ruzin@berkeley.edu) Phone: 510-642-6602 Website: https://microscopy.berkeley.edu</p>
Berkeley Preclinical Imaging Facility	<ul style="list-style-type: none"> • MRI, CT, US, EchoMRI, X-ray Irradiator 	<p>Email: Michael Wendland (mwendland@berkeley.edu) Phone: 510-664-7003 Website: http://preclinical.ls.berkeley.edu/</p>

For additional UC Berkeley core facilities and shared resources, please visit: <https://vcresearch.berkeley.edu/core-facilities>