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I. Background

U.S. Animal Welfare Regulations (AWR) and Public Health Service (PHS) Policy require institutions to provide training for all personnel engaged in animal research. In addition, the Guide for the Care and Use of Laboratory Animals states, "All personnel involved with the care and use of animals must be adequately educated, trained, and/or qualified in basic principles of laboratory animal science to help ensure high-quality science and animal well-being." The content of general training is specified by federal regulations, policy and must include training relevant to the species with which personnel are responsible:

- 1. Humane methods of animal maintenance and experimentation, including:
 - a) The basic needs of each species of animal;
 - b) Proper handling and care for the various species of animals used by the facility;
 - c) Proper pre- and post-procedural care of animals; and,
 - d) Aseptic surgical methods and procedures.
- 2. The concept, availability, and use of research or testing methods that limit the use of animals or minimize animal distress.
- 3. Proper use of anesthetics, analgesics, and tranquilizers for any species of animals used by the facility.
- 4. Methods whereby deficiencies in animal care and treatment are reported including deficiencies in animal care and treatment reported by any employee of the facility. No facility employee, committee member, or laboratory personnel shall be discriminated against or be subject to any reprisal for reporting violations of any regulation or standards under the Act.
- 5. Utilization of services (e.g., National Agricultural Library, National Library of Medicine) available to provide information:
 - a) On appropriate methods of animal care and use;
 - b) On alternatives to the use of live animals in research;
 - c) That could prevent unintended and unnecessary duplication of research involving animals; and,
 - d) Regarding the intent and requirements of the Act.

II. Policy

UC Berkeley requires that all individuals listed on an Animal Use Protocol (AUP) must complete a basic online CITI training course "Working with the IACUC". The Animal Care and Use Committee (ACUC) is charged with ensuring that all personnel working with and/or around animals is appropriately trained and qualified, and if applicable, may require additional specific training (see background above). The Office of Laboratory Animal Care (OLAC) or Environmental Health and Safety (EH&S) staff or other designated individuals may be responsible for certifying completion of specific training as determined by their units/programs as well as safety training to enter animal facilities. In addition, the CITI online "Working with the IACUC" refresher training must be done every 3 years based on initial completion date. There are also a variety of other online modules related to animal care and use.

Note - See Appendix for current information on training requirements.

III. Applicability

- A. This policy applies to all Principal Investigators (PIs), technicians, laboratory personnel, research fellows, students, other staff (e.g., administrative contacts and lab managers), and visiting scientists. Even PIs who do not themselves work directly with animals are required to have the basic online and refresher CITI training in animal care and use because of their ultimate responsibility for the personnel listed on their animal use protocols and the use of animals in their research, testing and/or teaching. In addition to the above personnel, appropriate training must be provided by PIs to volunteers or visitors who are exposed to live vertebrate animals or their unfixed tissues.
- B. The ACUC members, staff of the Office of Animal Care and Use (OACU) and Office of Laboratory Animal Care (OLAC) must also receive education and training on regulations and institutional policies as well as the conduct of site visits to ensure the highest standards in Berkeley's program of animal care and use. Continuing education is provided as needed.
- IV. Responsibilities
 - A. ACUC Establishes the minimum training requirements relative to general care and use of animals in teaching and research at UCB and to permit access to animal facilities. Personnel on protocols may be required to have additional training and/or certification of competency as appropriate.
 - B. PIs Ensure that appropriate training is provided, completed and documented for everyone listed on their protocol. Initial, basic training must be completed prior to working with any animals or gaining authorized entry to specific buildings or areas. Specific procedural or husbandry training may be provided by an experienced member of the lab and/or by the OLAC Trainer. Ensure that required certifications have been obtained for all applicable lab members and maintain all training documentation to be provided to ACUC or other site inspectors as requested.
 - C. OLAC Provides specie specific procedural and husbandry training as requested or as required by OLAC relative to ACUC granting approval of a protocol. Documentation of training will be provided to the PI, OLAC staff or ACUC as required. Develop and/or revise OLAC online course content for the Safety and Care of Research Animals at UC Berkeley course and other courses as may be needed or required (e.g., Cage Card Documentation).
 - D. OACU Ensures CITI online training is initially completed with a passing score, and, that online CITI renewal training is done as applicable every three years. Educational outreach is available upon request as it pertains to compliance for the use of animals in teaching and research.

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- E. EH&S Responsible for the hosting management and training records of the course Safety and Care of Research Animals at UC Berkeley via the UC Learning Management System (LMS). Other required or optional training (e.g., Controlled Substances, etc.) may be related to research and teaching with animals and available through LMS or other means.
- V. References
 - A. Animal Plant Health Inspection Service (APHIS). United States Department of Agriculture (USDA). Code of Federal Regulations, Title 9 (Animals and Animal Products), Chapter 1, Subchapter A (Animal Welfare), Part 2 – Regulations, Subpart C – Research Facilities, §2.32 Personnel Qualifications.
 - B. Office of Laboratory Animal Welfare. (2002). Public Health Service Policy on Humane Care and Use of Laboratory Animals.
 - C. University of California Policy, Laboratory Safety Training. (effective October 31,2013): <u>https://policy.ucop.edu/doc/3500598/LabSafetyTraining</u>
 - D. Institute of Laboratory Animal Research (ILAR). National Research Council (2011). Guide for the Care and Use of Laboratory Animals (8th edition). Washington, D.C.: The National Academies Press.

Appendix A – Course Descriptions

Updated 10/2/2024

1. ACUC Mandatory Basic Online Training

Collaborative Institutional Training Initiative (CITI) online program includes instruction in the five required subject areas as specified by the regulations. CITI training may be accessed directly at https://citiprogram.org. All individuals listed on an AUP must complete the *Working with the IACUC* (all animal users) module, which details regulatory responsibilities and is required for all PIs and all individuals listed on an AUP for teaching, testing or research. Other training modules such as *Working with Mice in Research* are also available on this website but are optional. After passing the initial CITI mandatory modules with a score of 80% correct answers, refresher training must be completed every 3 years by the anniversary date of the original passing date. Users are responsible for completing their training in a timely manner and OACU will verify the training status of all personnel on an AUP at the time of deNovo/Continuing review.

- 2. Other Required Training
 - A. All individuals working with or around non-human primates (NHP) require *Working Safely with Non-Human Primates* training. The training is scheduled as needed by the OLAC Training Coordinator and/or OLAC Veterinarian for all new personnel and covers basic principles of working safely with NHPs. Safety issues regarding Herpes B virus are covered. Visitors (including inspectors) who are accompanied by OLAC personnel may have an abbreviated training to include basic safety practices. This training must be received prior to entering a room with NHPs present. Contact the OLAC Training Coordinator for more information.
 - B. All individuals working with or around bats require *Bat Safety* training. The training is scheduled as needed by an OLAC veterinarian or the OLAC Training Coordinator for all new personnel and covers basic principles of working safely with bats. Safety issues regarding rabies virus are covered. Visitors (including inspectors) who are accompanied by OLAC personnel may have an abbreviated training to include basic safety practices. This training must be received prior to entering a room with bats present. Contact the OLAC Training Coordinator for more information.
 - C. All lab personnel who will be performing anesthesia and/or euthanasia must be trained, observed, and certified by the Office of Laboratory Animal Care (OLAC) veterinary staff or OLAC Training Coordinator before they are allowed to perform these procedures.
 - D. All lab personnel who will be performing surgery must be certified by the Office of Laboratory Animal Care (OLAC) veterinary staff or OLAC Training Coordinator for both anesthesia and euthanasia before they are allowed to engage in training to do surgical procedures. Surgical training must be directly supervised by an individual certified by OLAC in surgery. An individual may not perform surgical procedures independently (i.e., unsupervised) unless OLAC veterinary staff or the

OLAC Trainer has certified the individual as competent to perform these procedures independently.

- E. Other AUP procedure specific training will be provided by the PI or their designee. Training done within a PI's lab must be documented by the PI and be available for ACUC review at the time of semiannual inspections.
- F. All researchers, staff and students working in any of the animal facilities must complete – an online course, EHS 205-Safety and Care of Research Animals at UC Berkeley (on the UC Learning Center platform) and attend an in-person facility orientation (register at <u>https://www.olac.berkeley.edu/training</u>) prior to facility access. In-person training is generally conducted by the facilities' Supervisor.
- G. All personnel on an AUP should take the LMS online course on *Cage Card Documentation*. This course will introduce participants to the standard OLAC cage cards and stickers, as well as how to appropriately fill in and place them. By the end of the course users will know how to adhere to OLAC and ACUC requirements for documentation at the cage level.
- H. All students enrolled in classes where students utilize freshly euthanized vertebrate animals or perform classroom supervised activities under direct supervision using live vertebrate animals as a component of the course syllabus and curriculum must view *Ethics in Animal Research* training. *Ethics in Animal Research* training is a short PowerPoint presentation with versions adapted for field courses or lab courses usually given by the course instructor at the beginning of the course covering the basic principles of animal welfare regulations, ethics and protocol compliance as they relate to animal care and use at UC Berkeley. These presentations on *Ethics in Animal Research* are made available by the OACU staff to PIs with teaching protocols.
- I. All students enrolled in classes where independent research using live vertebrate animals is part of the curriculum must receive <u>CITI training</u> as described above under Section VII and be covered by a PI's animal use protocol (AUP) to do the work.
- J. In addition, EH&S may require a variety of other training be completed online or inperson (e.g., ABSL2 or 3 Safety training) prior to an individual beginning to do work under an AUP. See <u>https://ehs.berkeley.edu/training</u> for more detail.
- 3. Optional Online Training
 - A. *CITI* also offers a variety of training modules that are specialized species or model specific courses.
 - B. *AAALAS* also offers training through their programs but the cost of this is borne by the user.
- 4. ACUC Member Training

All new members must attend orientation and training sessions that are scheduled and conducted by OACU staff. Continuing education is provided to ACUC members as

applicable. These brief educational topics are presented at meetings and cover such areas as new or revised regulations and/or guidance; inspections; or other timely topics germane to the ACUC's responsibilities. In addition, all ACUC members are encouraged to complete the CITI online course *Essentials for IACUC Members* prior to beginning their term of service.

5. OACU Staff Training

OACU staff must complete and pass all the mandatory and optional IACUC and animal online modules currently offered by CITI. In addition, the Director and/or a senior staff member provides orientation and continuing education to ensure that staff are well trained, competent, and efficient. Continuing education through webinars or at conferences, workshops or seminars off-campus will be supported as needed contingent on budget limitations.

6. OLAC Staff Training

In addition to the CITI online course "Working with the IACUC", all OLAC employees receive training specific to the facility in which they work and/or the animals with which they work. This facility specific training includes classes such as: proper microisolator technique, guinea pig or bat husbandry, working safely with nonhuman primates (NHP) (i.e., bite/scratch management), Biosafety Level Three (ABSL- 3) Safety, Hazardous Materials Safety Training, Basic Safety Training, and Ergonomics for Animal Care Staff, etc. Specific training for OLAC staff is provided by OLAC veterinarians, OLAC Facility Managers and/or the OLAC Trainer.