Large Animal Surgery Guidelines:
Major survival surgery on mammals other than rodents almost always requires a dedicated surgery suite, in which preparation of the patient and the surgeon can be well separated from where the surgery is performed. A high level of asepsis is required, and separate sterilized instruments should be used for each animal patient.

Animal Anesthesia Guidelines:
Standards of care are described that apply to virtually all vertebrate animals that are anesthetized in the research laboratory. These include a general recommendation for at least 2-days acclimation, and for fasting, prior to general anesthetic procedures. Records should be kept for all animals undergoing anesthesia, with more extensive records for the larger animals and for longer and more complicated procedures. Body temperature must be maintained through gentle provision of heating pads or other devices. Researchers take the obligation to stay with their animal from the induction of anesthesia until righting reflexes have returned, and to provide and document appropriate post-procedural care.

These guidelines, policies and standard procedures are all living documents. Their development requires experience in the specific issues and techniques. These guidelines, policies and standard procedures are essentially pre-approved by the CAR on the individual protocol. Departures from these guidelines, policies and standard procedures may still yield an acceptable level of asepsis. A high level of asepsis is required, and separate sterilized instruments should be used for each animal patient.
When DSAs visit a laboratory, they will meet with the animal care and use in laboratories. DSAs will begin to offer assistance and oversight of policies. During the October – December quarter, substance and chemical safety laws, regulations, and the Departmental Safety Advisor who helps their group. Most laboratory personnel are familiar with their DSA, area supervisor:

To arrange for facility orientation, contact the LARC website [http://www.larc.ucsf.edu/]. To contact the Animal Welfare Assurance Program [http://www.ors.ucsf.edu/AWAP/AWAP.cfm] or call 502-7408.

ACCESS TO LARC FACILITIES
Access to campus animal facilities is limited to people with legitimate reasons for entry. LARC issues keys and activates “proximity cards” for study personnel and essential personnel (animal husbandry and veterinary staff and facilities management workers). The form to request proximity card activation has been updated to assure that no one has access to animal facilities on their own until they have met their CAR-mandated requirements for animal care and use training [http://www.ucsf.edu/ora/] and have received any necessary orientation to the specific animal facility. Download an application for proximity card activation from the LARC website [http://www.larc.ucsf.edu/]. To arrange for Basic Regulatory and Ethical Requirements and hands-on Species-Specific training, contact the Animal Welfare Assurance Program [http://www.ors.ucsf.edu/AWAP/AWAP.cfm] or call 502-7408.

To arrange for facility orientation, contact the LARC area supervisor:
- Mt. Zion: Don Mabunga, 476-1885
- MCB: Lee Enciso, 476-9098
- SFCH: Margaret Pasternak, 502-4261
- MRAII Transgenic Mouse Facility: Alex Rivas, 476-1178
- Large Animal Supervisor: Otis Singleton, 476-9845
- Conventional Rodent Housing, Parnassus Campus: Paul Medina, 502-4391

DEPARTMENTAL SAFETY ADVISORS & ANIMAL USE
Most laboratory personnel are familiar with their DSA, the Departmental Safety Advisor who helps their group stay in compliance with radiation, biosecurity, controlled substance and chemical safety laws, regulations, and policies. During the October – December quarter, DSAs will begin to offer assistance and oversight of animal care and use in laboratories.

When DSAs visit a laboratory, they will meet with the laboratory manager and verify:
- that animals are not housed in laboratories for greater than 12 hours without CAR approval posted in the laboratory, and
- that an inventory system is in place for monitoring expired drugs and medicine.
- DSAs will refer people with questions and concerns to the Animal Welfare Assurance Program to help them modify their approvals as necessary to be in full compliance.

DSAs will be working with information in the Office of Research Services on-line database. To verify your laboratory’s on-line information, go to [https://www.ehs.ucsf.edu/login/login.asp].

MOUSE POPULATIONS IN CAMPUS FACILITIES
As you are aware mouse housing space is currently extremely limited at UCSF. As reported previously the plans for the Parnassus Services Seismic Replacement Building (PSSRB) are well underway. Additionally new space is under construction at Mission Bay (Genentech Hall). Once completed these will provide significant new mouse housing space for researchers. In the interim LARC and ORS are actively working to increase the available housing space on a short-term basis.

In mid-July a notice was sent to each PI informing them of their current space allocation. The Animal Users Advisory Committee has asked LARC to monitor the space allocation and provide periodic updates to the Committee. Please help us manage the available space by staying within your allocations. If you need an increase in your allocation please send a note to either: Dr. Tony DeFranco Chair, the Animal Users Advisory Committee at defranco@cgl.ucsf.edu, or, Ara Tahmassian, Assistant Vice Chancellor Research Services at tahmassian@research.ucsf.edu.

On a related note, mouse users are reminded that for most mouse cages at UCSF, a population limit of 5 adult mice (over 25 gram) will keep the campus in compliance with the recommendations of the 1996 Guide for the Care and Use of Laboratory Animals. [http://www.nap.edu/]

(Underline continues on Page 2, see Notes)

ISOFLURANE MACHINES IN RODENT PROCEDURES ROOMS
Laboratory Animal Resource Center has purchased several isoflurane inhalant anesthesia units for use by investigators in the following areas:
- MCB Rodent Barrier Room # 214
- SFGH Building #40
- Mt. Zion Irradiator Room # N062
- SFGH Building 9 Room # 353

The anesthesia units are ready for your use.

Isoflurane is one of the safest and most effective anesthetic methods for your study animals. Using it is a refinement in UCSF animal care that advances animal welfare and scientific goals. You only need to do two things to use these machines:

1. Include isoflurane in your CAR approved animal use protocol or submit a modification for your existing protocol.
2. Obtain training. For training, call our training and compliance group, AWAP at 502-7408.

Each of these portable anesthetic machines (PAM) is the property of LARC and must not be removed from these shared space use areas. For service, replacement of oxygen, or to replenish isoflurane, or if your lab would like to purchase a your own PAM unit, please contact LARC at 476-6311.

AWAP, LARC and CAR encourage you to use this technique when possible. Please ensure that your CAR protocol reflects this anesthetic choice if you plan to use these units. Thank you.

VETERINARY HEALTH CHECKS
UCSF has a health surveillance report system for notifying the veterinary staff of a concern for the health and welfare of any research animals. Most frequently, the LARC husbandry staff fills out these reports because they check the animals every day. However, this system is open to anyone who has a concern about the well-being of a research animal. There are blank health forms in all animal rooms.

Complied health surveillance forms should be submitted in the box located on the 4th floor, of MR II next to the LARC mailboxes. The box is labeled VETERINARY HEALTH CHECKS. Satellite and off campus animal care units should submit the health checks to the facility supervisor (or designated location) who will relay them to veterinary staff, if appropriate. It is the best practice to submit them early in the day. The veterinary staff is responsible for checking the box frequently and attending to the animal. If your animal health concern needs immediate attention (emergency) you should contact (phone or page) one of the LARC veterinarians or veterinary nurses during regular working hours. If the concern is an emergency and it is after hours, you need to page the veterinarian on call at 502-8687.

LARC Contacts
Business Office: 476-2204
Husbandry:
- Dave Smith
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  502-1751
- Special Technical Services:
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  476-6311
- Pathology and Sentinel Services:
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  dlau@larc.ucsf.edu
  502-5417
- LARC Veterinary Staff:
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Animal Welfare Assurance Program Contacts
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- Jeff Nelson
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  502-7408

J Nelso