

Guide To Services

**Office of Laboratory Animal Care
University of California, Berkeley**



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www.olac.berkeley.edu

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OLAC Mission Statement

The employees of the Office of Laboratory Animal Care are committed to working together in a positive, supportive manner to achieve and maintain a program of excellence. This program includes:

- Supporting the humane care and use of animals through veterinary oversight, continuing education and training;
- Facilitating campus research and educational programs through collaboration, consultation and provision of professional services;
- Assuring compliance with applicable federal and state regulations;
- Supporting the University in achieving its academic mission and commitment to public service.

We value your input. If you have questions or comments, please contact us. Our most recent Client Survey results are on the website: www.olac.berkeley.edu.

Preface

The use of animals in research and instruction has been an integral part of Berkeley's academic mission since the founding of the University in 1868. Research and teaching at Berkeley involves animals in many contexts from investigations of disease processes affecting both humans and animals to studies of animal interactions with other animals, plants and the ecosystem in general. The advancement of biological and medical knowledge is inextricably linked to animal investigations. Most of what we know in all areas of biology is derived in one way or another from studies involving animals. Similarly, preparation of students for careers ranging from medicine to wildlife management requires some degree of animal contact. Thus, the involvement of animals in research and teaching cannot be avoided if the University is to continue to fulfill its mission.

In this guide, *animal* is defined as any live or dead vertebrate animal or tissues from any vertebrate animal with the potential of transmitting zoonotic diseases.

Individual faculty members who use animals in their teaching or research (including those whose research consists of field work involving animals) are by law accountable for conforming to all regulations and policies governing animal use on the Berkeley campus. This responsibility extends to include all animal use by the students, staff and coworkers supervised by a faculty member. Applicable regulations and policies cover:

- The acquisition, care and use of animals;
- Efforts to minimize pain and distress in animals;
- Training of personnel using animals;
- Consideration of alternatives to animal use.

As a matter of educational policy, even faculty who do not themselves use animals should be aware of these regulations and policies since their students may use animals at a later time. Likewise, instruction of students in proper animal use is an essential component of graduate education in the biological sciences.

Placing Orders

Requests for OLAC services are placed by submitting an order form. Order forms for all services are available on the Internet (www.olac.berkeley.edu). An order form may be submitted through one the following three channels:

In Person: Place the completed form in the *Incoming Orders* basket outside of the 203 NAF Administrative Office door.

Fax: Fax the form to 643-0886.

Mail: Mail the form in an envelope through campus mail as follows:

OLAC
Attn: [Service] (e.g., *Animal Orders, Transfers*)
203 NAF (#7150)
CAMPUS

Each type of service has a separate policy governing the scheduling of the service of delivery of the item. Please see the appropriate section.

All orders are confirmed by email. If there is a problem with an order, such as an incomplete form or inability of the vendor to fill the order as requested, the requestor will be notified before further action is taken.

Billing

Completed orders are billed to the account indicated on the order form. In the case of animal care per diem, the monthly per diem charge is billed to the account the animals were originally purchased under, unless other instructions are given. Each form has a section for indicating a UCB chart string number and authorizing signature. It is the responsibility of the ordering party to indicate the correct billing chart string number.

Each account used by each investigator must be registered as a recharge account with OLAC by submitting a *Recharge Account Application* form. This form is available on the Internet (www.olac.berkeley.edu).

Charges are accumulated monthly for each investigator's account, and submitted for automatic payment. Statements of charges are generated and mailed to the person indicated as the account manager.

Contacting OLAC

Phone – OLAC’s main phone number is (510) 642-9232. This number can be used to connect to any service or office. Employees’ direct phone lines are listed in the campus directory.

Mail - OLAC’s campus mailing address is:
Office of Laboratory Animal Care (OLAC)
203 NAF #7150
University of California, Berkeley
Berkeley, CA 94720-7150

EMail - may be sent to any OLAC employee by sending it to *flast@berkeley.edu*, where *f* is the first letter of the first name and *last* is the first seven letters of the last name.

Web - Material contained in this booklet, as well as additional information, is available on the Internet (*www.olac.berkeley.edu*).

Fax - General Faxes may be sent to the main office at 643-9929.

Services and Billing

EMail - Billing questions may be emailed to billing_olac@lists.berkeley.edu

Fax - All orders may be faxed to 643-0886.

Phone - The following phone numbers are for questions and problem resolution. They cannot be used to place orders.

Animal Orders, Transfers.....	642-9232
Pharmacy Orders, Research Service Requests.....	643-5255
Billing Questions	642-9232
Administrative Manager	642-4598
General	642-9232

Animal Care

EMERGENCIES: (24-Hour): 643-8387 (“3-VETS”) or [direct 510-895-2222]

Animal Facilities - Managers/Contacts

Northwest Animal Facility (NAF)	642-6603	102 NAF
Life Sciences Addition - 6 th Floor (LSA6).....	643-4032/5259	.649 LSA
Life Sciences Addition - Basement (LSAB)	642-7719	38 LSA
Valley Life Sciences Building (VLSB)	642-7719	38 LSA
Field Station for Behavioral Research (FSBR)	643-7247	Building 9, FSBR
Minor Hall Satellite Facility	642-6603	102 NAF

Animal Husbandry—For questions regarding housing or procedure space availability, daily animal care, caging, feed, water, environmental controls, facility maintenance and repairs, or other animal husbandry issues, contact either the facility manager or the OLAC Administrative Manager.

Veterinary- Report Animal Health Problem, (24-hr.svc.)..... 643-8387 (“3-VETS”)

AHT Manager	643-5255
Animal Health Technician (AHT) - LSA	643-5255
Animal Health Technician (AHT) - NAF	642-3216
Veterinarian - Dr. Nina Hahn	643-9667
Veterinarian - Dr. Greg Timmel.....	643-9568
Veterinarian - Dr. Kelly Jensen.....	643-9747

Animal Use Protocols

Contact the Animal Care and Use Committee (ACUC) with questions regarding your Animal Use Protocol.

Phone.....	642-8855
Fax.....	643-9929
Office	201 NAF # 7160
	University of California, Berkeley
	Berkeley, CA 94720-7160

Other Contacts

University Health Services (Tang Center)	642-6891
UC Police Department	642-6760
Environment Health and Safety (EH&S).....	642-3073
NAF Security Guard	642-4281
Alta Bates Hospital Emergency Department	204-1303

Animal Care Per Diem

OLAC's primary service is the daily care of animals. This includes feeding, watering, changing bedding, cleaning cages, health monitoring, facility maintenance, and the administration of the animal health care program.

In order to recover the cost of animal care, OLAC charges a daily fee called the *Animal Care Per Diem*, or *per diem* for short. This fee is charged every day for each animal or cage of animals housed by OLAC and billed to the investigator's account at the end of each month. Rates are based on an annual analysis of the daily cost of maintaining the animals. Per diem charges begin as soon as the animal is housed in the room, and are charged to the account for which the animals were purchased, unless otherwise indicated.

- Tip: If you want to check your animal count (NAF & LSA-6) the animal tally (census) sheet is kept on the outside of the door in which the animals are housed (FSBR & LSA-B: census sheets are kept in the ARM's office).

Approved 2009-2010 per diem rates:

<i>Description</i>	<i>Charge Per</i>	<i>Rate (\$/day)</i>
AQUATIC HABITAT (LARGE).....	habitat	0.129
AQUATIC HABITAT (MEDIUM)	habitat	0.047
AQUATIC HABITAT (SMALL)	habitat	0.025
BL3 Entry -PPE.....	person	8.085
CAT	animal	7.086
CHICK(EN) (SMALL)	cage.....	6.150
CHICK(EN) (MEDIUM) (1 BIRDS)	cage.....	9.217
CHICK(EN) (LARGE) (1-2 BIRDS)	cage.....	12.301
FINCHES	cage.....	2.215
FINCHES AVIARY	aviary	5.532
FINCHES	Room	11.496
FISH (LARGE)	<=25/tank.....	1.672
FISH (MEDIUM)	<=10/tank.....	0.940
FISH (SMALL)	< 10/tank.....	0.435
LA FROG (LARGE).....	tank	0.554
LA FROG (Medium).....	tank	0.233
LA FROG (Small).....	tank	0.179
FROG (LARGE)	tank	0.932
FROG (MEDIUM)	tank	0.469
FROG (SMALL)	tank	0.321

Animal Care Per Diem (continued)

<i>Description</i>	<i>Charge Per</i>	<i>Rate (\$/day)</i>
GUINEA PIG	cage	1.363
GUINEA PIG (*BCF)	cage	2.942
HAMSTER (7x11)	cage	0.482
HAMSTER (10x19)	cage	0.721
HUMMINGBIRD	animal	2.215
HYENA	animal	12.079
INVERTEBRATE (MARINE)	tank	0.561
INVERTEBRATE (SMALL)	cage	0.335
K.RAT	animal	0.962
LIZARD (LARGE)	cage	0.695
LIZARD (MEDIUM)	cage	0.535
LIZARD (SMALL)	cage	0.122
LIZARD (SMALL *BCF)	cage	0.382
MOUSE (7x11)	cage	0.482
MOUSE (10x11x6)	cage	1.369
MOUSE (BCF)	cage	1.307
MOUSE (OLAC Managed Breeding)	cage	0.796
PEROMYSCUS (7x11)	cage	0.482
PEROMYSCUS (*BCF)	cage	1.307
PRIMATE	animal	15.177
RABBIT	animal	1.496
RABBIT (*BCF)	animal	3.076
RAT	cage	0.721
SALAMANDER (Aquatic - Large)	10-20/tank	1.229
SALAMANDER (Aquatic - Medium)	1-9/tank	0.251
SALAMANDER (Terrestrial - Large)	10-20/tank	0.647
SALAMANDER (Terrestrial - Medium)	<10/tank	0.374
SALAMANDER (Terrestrial - Small)	tank	0.209
SNAKE (LARGE)	cage	0.720
SNAKE (MEDIUM)	cage	0.559
SQUIRREL (Flying)	animal	2.340
SQUIRREL (Ground)	animal	1.570
SQUIRREL (Ground *BCF)	animal	3.076
STARLINGS SMALL (<10)	room	11.496
STARLINGS MEDIUM (11-20)	room	22.985
STARLINGS OUTDOOR	aviary	10.451
TUCO TUCO	animal	0.695

Animal Care Per Diem (continued)

<i>Description</i>	<i>Charge Per</i>	<i>Rate (\$/day)</i>
TURTLE (LARGE).....	tank	1.495
VOLE	cage	0.721
WOODRAT (*BCF)	animal	2.340

* Biocontainment Facility

Research Services

OLAC provides a limited selection of standard veterinary services to investigators in support of their research. These services are performed by OLAC's Animal Health Technicians and are requested by submitting a completed *Research Service Request* form (www.olac.berkeley.edu). Due to heavy scheduling demands, it is recommended that requests be placed at least two weeks in advance.

Address to Attn: Research Services
 Mail or in person 203 NAF #7150
 Fax..... 3-0886
 Turnaround..... Place request at least 2 weeks in advance.
 Confirmation Each order is confirmed by email.
 Problems If service cannot be placed for any reason, the form will be faxed back with a cover memo explaining why.
 Questions..... Call an Animal Health Technician at 2-3216 (NAF) or 3-5255 (LSA).
 Notes A Research Service Request form can be used for one type of animal and for one type of procedure. If you need to schedule a series of procedures (one procedure depends on the completion of another, e.g., an injection followed by a bleed), explain this clearly and submit one form for each procedure.

Research Service Charges

<i>Description</i>	<i>Per</i>	<i>Rate (\$)</i>
Euthanasia – Rodent	cage	6.00
Euthanasia – Rabbit	animal.....	11.00
Rodent ear notch	animal.....	5.00 [15.00, cage]
Single vascular catheter	catheter.....	10.00
Terminal Bleed – Rodent	1st animal/cage.....	11.00 [6.00, thereafter]
Terminal Bleed – Rabbit.....	animal.....	25.00

<i>Description</i>	<i>Per</i>	<i>Rate (\$)</i>
Bleed – Guinea Pig	animal.....	15.00
Bleed - Rodent	1-3 animals.....	12.00
Bleed - Rodent	4-5 animals.....	16.00
Bleed - Rabbit	animal.....	15.00
Injection – Rodent.....	animal.....	6.00
Injection-Rabbit	animal.....	8.00
Gas (ethylene oxide) sterilization ..	each	19.00
Research support (Veterinarian)	hour	70.00
Research support (AHT).....	hour	35.00
Additional materials (Surgery)	item	<i>varies</i>
(This fee is assessed during surgery per item used.)		

Downdraft table usage 1st hour (minimum) 13.00
 additional hour(s)..... 4.00

Ultrasound..... machine usage..... 6.00
 Radiograph..... machine usage..... 11.00
 Mobile anesthesia machine 1st hour (minimum) 22.00
 additional hour(s)..... 13.50

OLAC Surgical Suite (Assisted).... 1st hour (minimum) 215.00
 additional hour(s)..... 73.50

OLAC Surgical Suite (Unassisted) 1st hour (minimum) 31.00
 additional hour(s)..... 13.50
 8"x10" radiograph print (and envelope)..... 5.00
 10"x12" radiograph print (and envelope)..... 6.00
 14"x17" radiograph print (and envelope)..... 8.50

Quarantine

When ordering animals from a noncommercial vendor, e.g. university, Jackson Laboratories Research Colony, or biotech firm, a quarantine period of 5-6 weeks minimum will be required. An *Animal Shipping Request*, available on the OLAC web-site (www.olac.berkeley.edu), must be completed and submitted to the AHT manager (fax: 3-5026). The health status of the originating colony and the incoming animals must be reviewed and approved by OLAC veterinarians prior to initiating any animal shipment to quarantine. Quarantine is defined as an isolation period when only OLAC staff may have access to the animals. Under veterinary approved circumstances, animals may be accessed with an OLAC escort. Breeding of animals is not allowed during quarantine.

Investigators wishing to bring field caught animals into animal facilities must first contact OLAC veterinarians to determine appropriate shipping and quarantine procedures.

<u>Description</u>	<u>Charge per</u>	<u>Rate(\$)</u>
Rodent Quarantine (30 day minimum)	per 1-10 cages	260.00

Charges incurred for non-rodent quarantine diagnostic procedures will be charged directly to the investigator.

Animal Purchase and Acquisition Charges

Animal purchases are charged back to the investigator at the cost incurred by OLAC. If the animal vendor does not charge sales tax on the invoice, university accounting charges OLAC a sales tax upon paying the invoice. The special form of paying sales tax is called a *use tax*, and OLAC charges this back to the investigator.

- Tip: In order to receive the most timely delivery of animals, please order animals that may experience a delay in shipment on a separate form. This will save time by not holding up other animals on the same order while we contact you for the approval to back order the delayed animals.

Animal Shipping

All animal shipments to or from the UCB campus must be coordinated through OLAC. Requests for shipment of animals to or from a noncommercial institution should be placed by submitting an *Animal Shipping Form* (www.olac.berkeley.edu). Animals received from outside institutions must complete a quarantine period of five to six weeks. Scheduling of shipments and acceptance of animals into the quarantine area is dependent upon:

- Animal health history;
- Availability of space;
- Approval by veterinary staff at both UCB and the other institution; and
- Correct and timely identification of cages of animals to be shipped.

Address to..... Attn: Animal Shipping
By Mail or In Person 203 NAF #7150
By Fax 3-0886
Turnaround Place request at least four weeks in advance.
Delivery OLAC schedules deliveries to arrive between Tues. and Thurs., and delivery departure between Mon. and Wed.
Confirmation Once placed, all shipments are confirmed by email.
If shipment cannot be placed for any reason, the requestor will be contacted by Fax or Phone.
Questions Call the order desk, 2-9232, Monday through Friday, hours 9am – 12 noon and 1pm – 4pm.

Charges

<i>Description</i>	<i>Charge Per</i>	<i>Rate(\$)</i>
Incoming Animal Shipment	invoice	cost of courier
Outgoing Animal Shipment.....	order.....	50.00*

*Animal shipments are charged back to the investigator at the cost incurred by OLAC, plus a \$50.00 fee (animal shipments outside contiguous states – \$70.00 fee). Cost for each single or split rodent shipping box is \$17.50.

Pharmacy and Animal Care Supply Purchases

Investigators may purchase research related pharmaceuticals and veterinary supplies from the OLAC Pharmacy with Animal Use Protocol approval. If an item is stocked in the OLAC Pharmacy it will be sold from the shelf, otherwise it will be purchased from an outside vendor. To place an order to the Pharmacy, submit a *Pharmacy Purchase Request* form, or for controlled substances, submit a *Controlled Substance Request* form (www.olac.berkeley.edu).

By Mail or In Person.....	203 NAF #7150
By Fax.....	3-0886
Turnaround.....	For orders placed off the Pharmacy shelf, allow at least three days. For orders placed through outside vendors, allow two to three weeks.
Delivery.....	Completed orders are available for pickup at 203 NAF during normal weekday office hours.
Confirmation	If an order is placed successfully, the order contact will be telephoned when the order is ready for pickup.
Problems	If an order cannot be placed for any reason, the form will be faxed back with a cover memo explaining why.
Questions.....	Call the AHT Supervisor at 3-5255, Monday through Friday, during normal weekday office hours.
Note	Controlled Substances can only be received by the investigator or an authorized alternate contact.

Fees

<u>Description</u>	<u>Charge Per</u>	<u>Rate (\$)</u>
Pharmacy Purchase Items	invoice.....	our cost

Transfers

OLAC provides a transfer service for on-campus transportation of animals, animal carcasses, and animal caging. In order to request this service, submit a *Transfer Request Form*, (www.olac.berkeley.edu) to OLAC. Please note that transfers are only conducted on Tuesday and Thursday mornings, 9am to 12noon (detailed instructions on transfer procedures are available on the web-site under “frequently asked questions”).

OLAC provides transport of animal carcasses to central medical disposal sites located at OLAC animal facilities. OLAC is not authorized, however, to transport hazardous materials, including carcasses or tissues treated with radioisotopes or other hazardous chemicals including Formalin. Disposal of such materials must be arranged through Environment, Health and Safety (EH&S) at 642-3073.

OLAC does not provide transport of animals to or from off-campus sites. If such services are required, OLAC can arrange for the service with an approved outside transportation service.

Address to..... Attn: OLAC Transfers
 Mail or in Person 203 NAF #7150
 Fax 3-0886
 Turnaround Place request at least one week in advance.
 Delivery Tuesday and Thursday, from 9am - 12noon.
 Confirmation None if the transfer can be scheduled as requested.
 Problems..... If an order cannot be placed for any reason, the form will be faxed back with a cover memo explaining why.
 Questions Call the order desk at 2-9232, Monday through Friday, hours 9am- 12noon and 1pm-4pm.
 Note Be sure items are available for pickup at the requested time.

<u>Description</u>	<u>Charge Per</u>	<u>Rate (\$)</u>
Transfer Service Fee	transfer	35.00

Veterinary Care

Veterinary Care is provided by OLAC veterinary staff as it is required, whether problems are reported by OLAC or research staff. Veterinary supplies and non-campus services used in the course of clinical veterinary care are charged to the investigator at the cost to OLAC, with no additional service fees or surcharges. OLAC does not charge for veterinary staff time.

OLAC provides a 24-hour contact service called 3-VETS for reporting animal health problems and emergencies. To utilize the service, call 643-8387 (643-VETS - say “3-VETS”) or call directly (510-895-2222), and you will be connected to a paging service which will page the on-call veterinarian. You must stay at the phone number left with the answering service until contacted by a member of the veterinary staff. You will be asked to answer questions regarding the animals’ medical history, research parameters, and current problem.

Reporting Animal Health Problems:

Urgent Care & Consultation Call 643-8387 (“3-VETS”) or direct (510-895-2222)

General Information..... Call an AHT and leave a message at
3-5255 (LSA) or 2-3216 (NAF)

Questions Call the AHT Manager at 3-5255
Monday-Friday, 7:30 am - 4:30 pm.

Note..... Charges for veterinary supplies and non-campus
services used during the normal clinical care of
animals are charged on a monthly basis.

Obtaining Authorization to Order and Work with Controlled Substances

The Federal Drug Enforcement Administration (DEA) strictly regulates the purchase, use and disposal of controlled substances to prevent diversion.

Commonly used controlled substances in animal research include pentobarbital, Nembutal, buprenorphine, ketamine, Euthasol, diazepam, fentanyl, Telazol, and morphine; but a complete list of controlled substances is available from the DEA at <http://www.usdoj.gov/dea/pubs/scheduling.html>. *Please note: isoflurane and tricaine (MS-222) are not controlled substances.*

The use of controlled substances in animal research requires the following procedures:

- Complete a project registration form and submit it to the Animal Care and Use Committee (ACUC) office for approval.
- Ensure that everyone who will have access to controlled substances successfully passes a background check through UC Police Department (UCPD).
- Keep accurate inventory and usage records for all controlled substances related to your research project.
- Lock all controlled substances in a properly secured location (e.g. locked cabinet or drawer).
- Report any changes in personnel approved to use controlled substances to EH&S.
- Report any theft or loss to EH&S immediately upon discovery as EH&S must notify the DEA within 24 hours.
- Assist EH&S and ACUC during semiannual inspections (provide access to storage location, answer questions about recordkeeping, etc.).

Please visit <http://www.ehs.berkeley.edu/healthsafety/controlsubs.html> for further instructions and forms regarding the use of controlled substances in research or contact EH&S at 642-3073 for assistance.

Process for Disposing of Outdated or Unwanted Controlled Substances

The Federal Drug Enforcement Administration (DEA) strictly regulates the disposal of unwanted controlled substances. To assist those on campus who use controlled substances in their research, the Office of Environment, Health & Safety (EH&S) has prepared a step-by-step program for disposal. Following their guidelines will help ensure your unwanted or expired controlled substances are safely and legally managed.

Note: Controlled substances that are mixed with radioactive waste, chemical hazardous waste, or medical waste are not eligible for disposal under these guidelines. They should be disposed of as radioactive, chemical, or medical waste, respectively.

There is no charge for disposing of unwanted controlled substances through the EH&S program.

Download forms and instructions for proper disposal at <http://www.ehs.berkeley.edu/hazmat/contrsubs.html> or contact EH&S at 642-3073 for assistance.

Accessing Animal Facilities

All animal facilities have restricted access and require a card key and/or brass key to gain entrance. To obtain the necessary card keys and/or brass keys you must complete one or more necessary forms. These forms are available on the Internet (www.olac.berkeley.edu).

Once you have completed cardkey request forms you may drop them off to 203 Northwest Animal Facility (mail code 7150). Brass key requests should be submitted directly to our main administrative office, 203 Northwest Animal Facility. Once processed you will be contacted to schedule an appointment for pick-up (a deposit of \$10.00 for each brass key must be paid at this time).

Anyone working with animals in the Northwest Animal Facility must attend the mandatory safety training offered by EH&S and training must be renewed annually. Once your card key form is submitted you will be contacted about the next available training session. Anyone needing access to the Biosafety Containment Facility (BCF) must attend special training for this area prior to receiving a card key. If you have any questions regarding this process you may contact our administrative office at 642-9232.

Visitor Access

It is possible to visit our facilities, however, to ensure visitor and animal safety as well as scientific integrity, visitors to animal facilities must obtain prior approval and meet criteria as specified in the Visitor Access form available on the Internet (www.olac.berkeley.edu).

Cameras/Video Equipment

Use of cameras, video, or recording equipment is not allowed in any of the campus animal facilities without prior approval and authorization by the OLAC Director. Contact the main office for assistance: 642-9232.

Accessing Animal Facilities (continued)

Training/ Workshops

OLAC facility orientation classes and surgery technique workshops are taught in the Fall and Spring semesters or upon request. Check the website for class dates, locations, and registration. Class/Workshop announcements are also sent by email to the lab contact person.

Emergency Procedures

A building occupant is required by law to evacuate the building when the fire alarm sounds. *Animals should never be taken out of the building during an emergency.* If animals are outside of their cage, return them to their enclosure and follow evacuation procedures. If you are in the middle of a surgery or other procedure, stop at once and return the animal to their enclosure or euthanize the animal if necessary and follow normal evacuation procedures. **Human safety should always be your first concern.**

Please refer to the OLAC safety manual and Building Emergency Plans on the departmental website (www.olac.berkeley.edu) within the safety resources section.

Selected Acronyms

3-VETS.....	643-8387 (Animal Emergency Number)
AAALAC	Association for Assessment and Accreditation of Laboratory Animal Care, International
AALAS.....	American Association for Laboratory Animal Science
ARENA	Applied Research Ethics National Association
ARM.....	Animal Resources Manager
ARS	Animal Resources Supervisor
AHT.....	Animal Health Technician
ACLAM	American College of Laboratory Animal Medicine
ACUC.....	Animal Care and Use Committee (aka IACUC)
AVMA.....	American Veterinary Medical Association
AWA	Animal Welfare Act
AWIC	Animal Welfare Information Center
BMBL.....	Biosafety in Microbiological and Biomedical Laboratories (CDC/NIH)
CARSA.....	Committee on Animal Research Space Assignment
CBRA.....	California Biomedical Research Association
CDC.....	Centers for Disease Control and Prevention
CITES.....	Convention on Intntl. Trade in Endangered Species-Wild Fauna and Flora
CR-STAR	Communication, Respect, Supervisors/Management, Training, Assumptions/Stereotypes, Recognition: OLAC Values
DEA.....	Drug Enforcement Agency
DVM.....	Doctor of Veterinary Medicine
EPA	Environmental Protection Agency
ESA	Endangered Species Act
EH&S	Environment Health and Safety - Office of
FBR	Foundation for Biomedical Research
FSBR	Field Station for Behavioral Research
IACUC	Institutional Animal Care and Use Committee
ILAR.....	Institute of Laboratory Animal Resources
LSA-B	Life Sciences Addition, Basement
LSA-6.....	Life Sciences Addition, 6 th Floor
MMPA.....	Marine Mammal Protection Act
NABR.....	National Association for Biomedical Research
NAF.....	Northwest Animal Facility
NAS.....	National Academy of Sciences

Selected Acronyms (continued)

NIH.....	National Institutes of Health
NIOSH.....	National Institute for Occupational Safety and Health
NSF.....	National Science Foundation
NWABR	Northwest Association for Biomedical Research
OLAC	Office of Laboratory Animal Care
OLAW	Office of Laboratory Animal Welfare
PAT	Principal Animal Technician
PI	Principal Investigator
OSHA	Occupational Safety and Health Agency
PHS.....	Public Health Service
PRIM&R	Public Responsibility in Medicine and Research
RVT	Registered Veterinary Technician
SCAW	Scientist Center for Animal Welfare
UCB.....	University of California, Berkeley
VLSB.....	Valley Life Sciences Building
WHO	World Health Organization

Notes
