[University of California, Los Angeles]

Memorandum to:	Roger M. Wakimoto, Vice Chancellor for Research
From:	Institutional Animal Care and Use Committee

Subject: Semiannual Report of the Program Review and Facility Inspection

Date: January 29, 2019

This report summarizes the IACUC's results of its most recent program review and facility inspection, as required by the Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals (Policy), Section IV.B.1.-3., the Guide for the Care and Use of Laboratory Animals (Guide), and the Animal Welfare Act (AWA) regulations, as applicable. Submission of semiannual reports to the Institutional Official is a condition of this institution's Animal Welfare Assurance with the NIH Office of Laboratory Animal Welfare (OLAW).

Since the last review, the following changes have occurred in the institution's program for animal care and use (PHS Policy IV.A.1.a.-i.): [optional]

The UCLA Animal Welfare Assurance (A3196-01) was renewed on July 17, 2018 with the Office of Laboratory Animal Welfare. The renewed Assurance will expire on July 31, 2022.

The following ARC Policies were updated or revised during the reporting period:

- Review of Significant Changes to Previously Approved Protocols (updated 7/2018)
- Treatment and Use of Animals under Expired Protocols (revised 8/2018)
- Environmental Enrichment (revised 9/2018)
- Social Housing (revised 9/2018)

I. Description of the Nature and Extent of the Institution's Adherence to the PHS Policy, the *Guide*, and the AWA

De	epar	rture	es from the PHS Policy, the <i>Guide</i> , and the AWA.
Se	elect	t A c	or B:
[]	Α.	There were no departures during this reporting period.

[X] B. The following departures have been reviewed and approved by the IACUC:

ARC (mice)

We will analyze food intake, activity, and energy expenditure using the Columbia Instruments Laboratory Animal Monitoring System. These are highly specialized metabolic cages for individual housing of mice. Each mouse will be housed individually in a single metabolic chamber connected to an open circuit calorimeter for detection of oxygen consumption and CO2 production. Each cage contains a sipping tube and food boat for delivery of water and food, respectively. As the duration of the experiment is 4 days, each mouse will be housed in the metabolic chamber for up to 96 hours.

II. Deficiencies in the Institution's Animal Care and Use Program

Animal Care and Use Program	Review	Date(s):	January	28,	2019
Select A or B:					

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- 1	Χl		Indra	MAPA NO	deficiencies	' in tha	nrogram	during	i thic r	CONCITION	nariad
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Γ	1	B	The following	deficiencies	have been	identified:

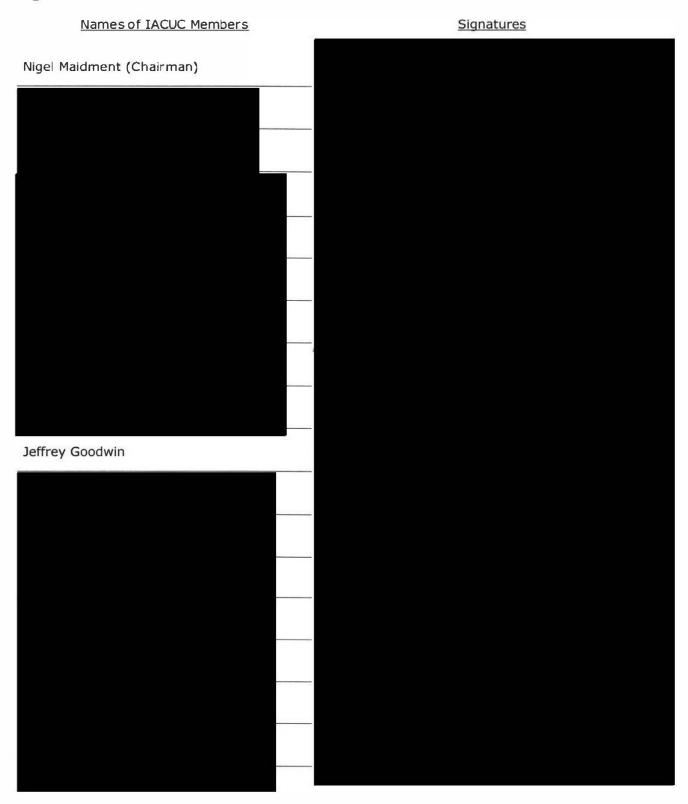
III. Deficiencies in the Institution's Animal Facility

IV.

٧.

Animal Facility Inspection Date(s): Inspections are performed on a rolling basis, as documented in monthly reports to the ARC and IO. Select A or B:
 [] A. There were no deficiencies in the animal facility during this reporting period. [X] B. The following deficiencies have been identified: [describe each deficiency, identify each deficiency as either minor or significant, and provide a reasonable and specific plan and schedule for the correction of each deficiency, deficiencies may be recorded on a separate table and attached, the last page of OLAW's Sample Semiannual Program Review and Facility Inspection Checklist provides a sample table]
Facility deficiencies are described in the inspection reports submitted to the IO each month. The ARC administrative staff follows up with PIs in instances where additional information is requested following ARC review. A reasonable and specific plan and schedule for correcting each deficiency is provided in each inspection report.
Minority Views
Select A or B: [X] A. No minority views were submitted or expressed. [] B. The following minority views were expressed: [insert minority views here or attach]
Status of AAALAC Accreditation [identify accredited facilities, if applicable]
Fully accredited.

VI. Signatures



Semiannual Program Review and Facility Inspection Checklist: <u>July – December 2018</u>

Both the USDA Animal Welfare Act Regulations [§2.31(c)(1) and §2.31(c)(3)] and the Public Health Service Policy on Humane Care and Use of Laboratory Animals (PHS Policy IV.B.1 and IV.B.3) require that the Institutional Animal Care and Use Committee (at UCLA, the ARC) conduct evaluations of the institutional animal care and use program, and inspections of the animal facilities, at least once every six months and forward the Committee's evaluation report and recommendations to the Institutional Official. The ARC uses Sections I of the OLAW Checklist to conduct the program review. Facility inspections are performed on a rolling basis; as such, inspection reports are reviewed by the ARC each month and final reports forwarded to the IO upon resolution of deficiencies.

Abbreviations:

APHIS - Animal and Plant Health Inspection Service

ARC - Animal Research Committee

AV - Attending Veterinarian

CEO - Chief Executive Officer (at UCLA: Chancellor Gene Block)

DLAM - Division of Laboratory Animal Care

EH&S - Environment, Health & Safety

HVAC - Heating, Ventilation and Air Conditioning

IACUC - Institutional Animal Care and Use Committee

IO - Institutional Official (at UCLA: Vice Chancellor for Research Roger M. Wakimoto)

PAM – Post-approval Monitoring

Checklist Key:

A = acceptable

M = minor deficiency

S = significant deficiency (is or may be a threat to animal health or safety)

C = change in program (PHS Policy IV.A.1.a.-i.) (include in semiannual report to Institutional Official, or IO, and in annual report to OLAW)

NA = not applicable

Highlighting Key:

Red = "must" statement in the Guide

<mark>Yellow</mark> = comments added to checklist to clarify or expand upon processes used at UCLA

Green = plan/schedule for correction from last PE; requires discussion

I. Semiannual Program Review Checklist i

Institutional Policies and Responsibilities

. Animal Care and Use Program	A	M	S	C	N/
• Responsibility for animal well-being is assumed by all members of the program (Guide					
<u>p 1</u>) [must]	X				
IO has authority to allocate needed resources (Guide, p 13)	Х				
 Resources necessary to manage program of veterinary care are provided (Guide, p 14) 	X				
Sufficient resources are available to manage the program, including training of					
personnel in accord with regulations and the Guide (Guide, pp 11, 15)	X				
Program needs are regularly communicated to IO by AV and/or IACUC (Guide, p 13)	X				
Responsibilities for daily animal care and facility management are assigned to specific					
individual(s) when a full-time veterinarian is not available on site (Guide, p 14) [must	X				
 Inter-institutional collaborations are described in formal written agreements (Guide, p 15) 	х		-		2:
Written agreements address responsibilities, animal ownership, and IACUC oversight					
(Guide, p 15)	X				
Disaster Planning and Emergency Preparedness	Α	M	S	С	N
 Disaster plans for each facility to include satellite locations are in place (Guide, p 35, p 					
75) [must]	X				
Plans include provisions for euthanasia (Guide, p 35) must	X				
• Plans include triage plans to meet institutional and investigators' needs (Guide, p 35)	X				
 Plans define actions to prevent animal injury or death due to HVAC or other failures 					
(Guide, <u>p 35</u>)	X				
 Plans describe preservation of critical or irreplaceable animals (Guide, p 35) 	X				
Plans include essential personnel and their training (Guide, p 35)	X				
 Animal facility plans are approved by the institution and incorporated into overall response plan (Guide, p 35) 	Х				
		-	-		-
 Law enforcement and emergency personnel are provided a copy and integration with overall plan is in place (Guide, p 35) 	Х				
	X	М	S	С	N
overall plan is in place (Guide, p 35) IACUC		M	S	С	N
overall plan is in place (Guide, p 35) IACUC • Meets as necessary to fulfill responsibilities (Guide, p 25) [must]	A	M	S	С	N
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All IACUC members should receive: Formal orientation to institution's program (Guide, p_17) Training on legislation, regulations, guidelines, and policies (Guide, p_17) Training on how to inspect facilities and labs where animal use or housing occurs (Guide, p_17) Training on how to review protocols as well as evaluate the program (Guide, p_17) Ongoing training/education (Guide, p_17) ACUC Records and Reporting Requirementsvi	X X X X X	M	S	С	NA NA
All IACUC members should receive: o Formal orientation to institution's program (Guide, p 17) o Training on legislation, regulations, guidelines, and policies (Guide, p 17) o Training on how to inspect facilities and labs where animal use or housing occurs (Guide, p 17) o Training on how to review protocols as well as evaluate the program (Guide, p 17)	X X X	M	S	С	NA
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All IACUC members should receive: o Formal orientation to institution's program (Guide, p 17)	X	M	S	С	NA
All IACUC members should receive:		M	S	С	NA
	A	M	S	С	NA
ACUC Training	Δ	м	S	C	NΔ
to USDA/APHIS* (Guide, p 30) [must]	X				
Requests for exemptions from major survival surgical procedure restrictions are made	^	-	-		-
	X				
activities (PHS Policy, IV.B.)	X				
Procedures are in place for review and approval of significant changes to approved					
(PHS Policy, IV.B.)	X				
	٨				
	Y				
	X				
Methods for reporting and investigating animal welfare concerns are in place (Guide, p					
IACUC organizationally reports to the Institutional Official (PHS Policy, <u>IV.A.1.b.</u>)	Χ				
	X				
	Х				
	X				
	V				
animal user (Guide, p 24) ii	X				
Members include a veterinarian, a scientist, a nonscientist, and a nonaffiliated non-lab					
	X				
	Α	М	S	С	NA
		•	_		
	Х				
	X	-			
· · · · ·	V				
regulations applicable in study area (Guide, p.32)	X		-		
Investigators conducting field studies know zoonotic diseases, safety issues, laws and					
by the IACUC (Guide, p 31)	Χ				
Non- pharmaceutical grade chemicals are identified, their use justified, and approved	^				
	X				
	Х				
31)	X				
Body weights for food/fluid restricted animals are recorded at least weekly (Guide, p					
(Guide, <u>p 31</u>)	X				
p 30)					
Major versus minor surgical procedures are evaluated on a case-by-case basis (Guide,					
	X				
	Λ				
Explanations for the purpose and duration of restraint are provided to personnel	V				
	conducting the study by the PI or senior laboratory staff (Guide, p. 30) (Guide, p. 30) Multiple surgical procedures on a single animal are justified and outcomes evaluated (Guide, p. 30) Major versus minor surgical procedures are evaluated on a case-by-case basis (Guide, p. 30) Multiple survival procedure justifications in non-regulated species conform to regulated species standards (Guide, p. 30) Animals on food/fluid restriction are monitored to ensure nutritional needs are met (Guide, p. 31) Body weights for food/fluid restricted animals are recorded at least weekly (Guide, p. 31) Body weights for food/fluid restricted animals are recorded at least weekly (Guide, p. 31) Pharmaceutical grade chemicals are used, when available, for animal-related procedures (Guide, p. 31) Non-pharmaceutical grade chemicals are identified, their use justified, and approved by the IACUC (Guide, p. 31) Investigators conducting field studies know zoonotic diseases, safety issues, laws and regulations applicable in study area (Guide, p. 32) The disposition plans for species removed from the wild are considered and reviewed (Guide, p. 32) Toe-clipping only used when no alternative, performed aseptically and with pain relief (Guide, p. 75) ACUC Membership and Functions IACUC is comprised of at least 5 members, appointed by CEO (PHS Policy, IV.A.3.) July 23, 2012: The CEO (i.e., UCLA Chancellor) has delegated authority to the Vice Chancellor for Research, as IO, via UCLA Delegation 255.03. Members include a veterinarian, a scientist, a nonscientist, and a nonaffiliated non-lab animal user (Guide, p. 24) In IACUC authority and resources for oversight and evaluation of institution's program are provided (Guide, p. 14) IACUC conducts semiannual evaluations of institutional animal facilities (PHS Policy, IV.B.) Conducts semiannual inspections of institutional animal facilities (PHS Policy, IV.B.) Conducts semiannual inspections of institutional of institutions in place (Guide, p. 27) Inust Reviews are in place for review, approval	conducting the study by the PI or senior laboratory staff (Guide, p. 30) Multiple surgical procedures on a single animal are justified and outcomes evaluated (Guide, p. 30) Major versus minor surgical procedures are evaluated on a case-by-case basis (Guide, p. 30) Multiple survival procedure justifications in non-regulated species conform to regulated species standards (Guide, p. 30) Multiple survival procedure justifications in non-regulated species conform to regulated species standards (Guide, p. 30) Animals on food/fluid restriction are monitored to ensure nutritional needs are met (Guide, p. 31) Body weights for food/fluid restricted animals are recorded at least weekly (Guide, p. 31) Daily written records are maintained for food/fluid restricted animals (Guide, p. 31) Non-pharmaceutical grade chemicals are used, when available, for animal-related procedures (Guide, p. 31) Investigators conducting field studies know zoonotic diseases, safety issues, laws and regulations applicable in study area (Guide, p. 32) The disposition plans for species removed from the wild are considered and reviewed (Guide, p. 32) Toe-clipping only used when no alternative, performed aseptically and with pain relief (Guide, p. 25) ACUC Membership and Functions IACUC is comprised of at least 5 members, appointed by CEO (PHS Policy, IV.A.3.) 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Procedures are in place for special proc	conducting the study by the PI or senior laboratory staff (Guide, p. 30) X Multiple surgical procedures on a single animal are justified and outcomes evaluated (Guide, p. 30) Major versus minor surgical procedures are evaluated on a case-by-case basis (Guide, p. 30) Multiple survival procedure justifications in non-regulated species conform to regulated species standards (Guide, p. 30) Multiple survival procedure justifications in non-regulated species conform to regulated species standards (Guide, p. 30) X Animals on food/fluid restriction are monitored to ensure nutritional needs are met (Guide, p. 31) X Pharmaceutical grade chemicals are used, when available, for animal-related procedures (Guide, p. 31) X Pharmaceutical grade chemicals are used, when available, for animal-related procedures (Guide, p. 31) X Pharmaceutical grade chemicals are identified, their use justified, and approved by the IACUC (Guide, p. 31) Investigators conducting field studies know zoonotic diseases, safety issues, laws and regulations applicable in study area (Guide, p. 32) X The disposition plans for species removed from the wild are considered and reviewed (Guide, p. 32) X X X X X X X X X X X X X X X X X X X	conducting the study by the PI or senior laboratory staff (<i>Guide</i> , p. 30) X Multiple surgical procedures on a single animal are justified and outcomes evaluated (<i>Guide</i> , p. 30) Major versus minor surgical procedures are evaluated on a case-by-case basis (<i>Guide</i> , p. 30) Multiple survival procedure justifications in non-regulated species conform to regulated species standards (<i>Guide</i> , p. 30) X Animals on food/fluid restriction are monitored to ensure nutritional needs are met (<i>Guide</i> , p. 31) X Daily written records are maintained for food/fluid restricted animals (<i>Guide</i> , p. 31) X Pharmaceutical grade chemicals are used, when available, for animal-related procedures (<i>Guide</i> , p. 31) X Non-pharmaceutical grade chemicals are identified, their use justified, and approved by the IACUC (<i>Guide</i> , p. 31) X Investigators conducting field studies know zoonotic diseases, safety issues, laws and regulations applicable in study area (<i>Guide</i> , p. 32) X The disposition plans for species removed from the wild are considered and reviewed (<i>Guide</i> , p. 32) X Toe-clipping only used when no alternative, performed aseptically and with pain relief (<i>Guide</i> , p. 32) Toe-clipping only used when no alternative, performed aseptically and with pain relief (<i>Guide</i> , p. 75) X ACUC Membership and Functions IACUC is comprised of at least 5 members, appointed by CEO (PHS Policy, IV.A.3.) 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Procedures are i	conducting the study by the PI or senior laboratory staff (Guide, p. 30) X Multiple surgical procedures on a single animal are justified and outcomes evaluated (Guide, p. 30) Major versus minor surgical procedures are evaluated on a case-by-case basis (Guide, p. 30) Multiple survival procedure justifications in non-regulated species conform to regulated species standards (Guide, p. 30) Animals on food/fluid restriction are monitored to ensure nutritional needs are met (Guide, p. 31) Animals on food/fluid restricted animals are recorded at least weekly (Guide, p. 31) Body weights for food/fluid restricted animals are recorded at least weekly (Guide, p. 31) X Daily written records are maintained for food/fluid restricted animals (Guide, p. 31) X Pharmaceutical grade chemicals are used, when available, for animal-related procedures (Guide, p. 31) Non-pharmaceutical grade chemicals are identified, their use justified, and approved by the IACUC (Guide, p. 31) Non-pharmaceutical grade chemicals are identified, their use justified, and approved by the IACUC (Guide, p. 32) The disposition plans for species removed from the wild are considered and reviewed (Guide, p. 32) X The disposition plans for species removed from the wild are considered and reviewed (Guide, p. 32) X X X X X X X X X X X X X X X X X X X

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_	0		X	4			
	0		W				
		and facility deficiencies)	X				
	0		X				
	0						
_		reasons for each departure vii	X				
	0	Distinguishes significant from minor deficiencies	X				
	0	Includes a plan and schedule for correction for each deficiency identified viii	X				
	• R	eports to OLAW (PHS Policy, <u>IV.F.</u>)					_
	0						
		program reviews and facility inspections and includes any minority views	X				<u> </u>
	0						
		noncompliance (NOT-OD-05-034)	X				
	0						
		the IACUC (NOT-OD-05-034)	X				
	• R	eports to U.S. Department of Agriculture (USDA) or Federal funding agency ^{ix}					-
	0	· · · · · · · · · · · · · · · · · · ·					
		exceptions/exemptions	X				
	0						
		regulations and standards	X				
	0	Reports are filed within 15 days for failures to adhere to timetable for correction of					
		significant deficiencies	X				
	0	Promptly reports suspensions of activities by the IACUC to USDA and any Federal					
		funding agency	X				
	• R	ecords (PHS Policy, IV.E.)					
	0	IACUC meeting minutes and semiannual reports to the IO are maintained for 3					
		years	X				
	0	Records of IACUC reviews of animal activities include all required information ^x	X				
	0	Records of IACUC reviews are maintained for 3 years after the completion of the					
		study	X				
8.		rinary Care (See also next section - Veterinary Care)	A	M	S	С	NA
		n arrangement for veterinarian(s) with training or experience in lab animal medicine					
		in place including backup veterinary care ^{xi}	X				
		eterinary access to all animals is provided (Guide, p 14) must	X				
		irect or delegated authority is given to the veterinarian to oversee all aspects of					
		nimal care and use (Guide, p 14) imust	X				
		eterinarian provides <u>consul</u> tation when pain and distress exceeds anticipated level in					
	р	rotocol (Guide, p 5) must	X				
	 V 	e <mark>terinari</mark> an provides consultation when interventional control is not possible (<i>Guide</i> , <u>p</u>					
	5	must	X				
	• If	part time /consulting veterinarian, visits meet programmatic needs (Guide, p 14)		_			X
	• R	egular communication occurs between veterinarian and IACUC (Guide, p 14)	X				
	• V	eterinarian(s) have experience and training in species used (Guide, p 15) must	X				
	• V	eterinarian(s) have experience in facility administration/management (<i>Guide</i> , <u>p 15</u>)	X				
9.	Pers	onnel Qualifications and Training	A	M	S	C	NA
	• A	Il personnel are adequately educated, trained, and/or qualified in basic principles of					
	la	boratory animal science. Personnel included: [must]					
	la o	·	X				
	0	Veterinary/other professional staff (Guide, p 15-16)	X				
	0	Veterinary/other professional staff (<i>Guide</i> , <u>p_15-16</u>) IACUC members (<i>Guide</i> , <u>p_17</u>)					
	0	Veterinary/other professional staff (Guide, p 15-16) IACUC members (Guide, p 17) Animal care personnel (Guide, p 16)	Χ				
	0	Veterinary/other professional staff (Guide, p_15-16) IACUC members (Guide, p_17) Animal care personnel (Guide, p_16) Research investigators, instructors, technicians, trainees, and students (Guide, pp	X				
	0 0	Veterinary/other professional staff (Guide, p_15-16) IACUC members (Guide, p_17) Animal care personnel (Guide, p_16) Research investigators, instructors, technicians, trainees, and students (Guide, pp_16-17)	Χ				
	0 0 0	Veterinary/other professional staff (Guide, p_15-16) IACUC members (Guide, p_17) Animal care personnel (Guide, p_16) Research investigators, instructors, technicians, trainees, and students (Guide, pp_16-17) ontinuing education for program and research staff provided to ensure high quality	X X				
	• Cc	Veterinary/other professional staff (Guide, p_15-16) IACUC members (Guide, p_17) Animal care personnel (Guide, p_16) Research investigators, instructors, technicians, trainees, and students (Guide, pp_16-17) ontinuing education for program and research staff provided to ensure high quality are and reinforce training (Guide, pp_16-17)	X X X				
	• Cc	Veterinary/other professional staff (Guide, p_15-16) IACUC members (Guide, p_17) Animal care personnel (Guide, p_16) Research investigators, instructors, technicians, trainees, and students (Guide, pp_16-17) ontinuing education for program and research staff provided to ensure high quality are and reinforce training (Guide, pp_16-17) raining is available prior to starting animal activity (Guide, p_17)	X X X X				
	• Co	Veterinary/other professional staff (Guide, p_15-16) IACUC members (Guide, p_17) Animal care personnel (Guide, p_16) Research investigators, instructors, technicians, trainees, and students (Guide, pp_16-17) ontinuing education for program and research staff provided to ensure high quality are and reinforce training (Guide, pp_16-17) raining is available prior to starting animal activity (Guide, p_17) raining is documented (Guide, p_15)	X X X				
	• Co	Veterinary/other professional staff (Guide, p 15-16) IACUC members (Guide, p 17) Animal care personnel (Guide, p 16) Research investigators, instructors, technicians, trainees, and students (Guide, pp 16-17) ontinuing education for program and research staff provided to ensure high quality are and reinforce training (Guide, pp 16-17) raining is available prior to starting animal activity (Guide, p 17) raining is documented (Guide, p 15) raining program content includes: (Guide, p 17)	X X X X X				
	• Co	Veterinary/other professional staff (Guide, p 15-16) IACUC members (Guide, p 17) Animal care personnel (Guide, p 16) Research investigators, instructors, technicians, trainees, and students (Guide, pp 16-17) ontinuing education for program and research staff provided to ensure high quality are and reinforce training (Guide, pp 16-17) raining is available prior to starting animal activity (Guide, p 17) raining program content includes: (Guide, p 17) Methods for reporting concerns (Guide, p 17)	X X X X X				
	• Cocce • Tr	Veterinary/other professional staff (Guide, p_15-16) IACUC members (Guide, p_17) Animal care personnel (Guide, p_16) Research investigators, instructors, technicians, trainees, and students (Guide, pp_16-17) ontinuing education for program and research staff provided to ensure high quality are and reinforce training (Guide, pp_16-17) raining is available prior to starting animal activity (Guide, p_17) raining program content includes: (Guide, p_17) Methods for reporting concerns (Guide, p_17)	X X X X X				

•	Preventive measures in place include pre-employment screening, and physical and IT					
11.	Personnel Security	A	М	S	С	NA
	(Guide, <u>p. 32)</u>	^				
•	Occupational safety and health of field studies is reviewed by OSH committee or office $(Guide, \underline{p} \ 32)$	х				
	implemented (Guide, p_23)	X				
	Injuries associated with macaques are carefully evaluated and treatment					
	o PPE is provided including gloves, arm protection, face masks, face shields, or goggles ($Guide$, $p \ge 21$)	Х				
-	 associated with macaques (Guide, p_23) PPE is provided including gloves, arm protection, face masks, face shields, or 	X				
	o Training and implementation of procedures for bites, scratches, or injuries					
	Tuberculosis screening provided for all exposed personnel (Guide, p 23)	Χ				
	body fluids include:					
•	<u>p 22)</u> Special precautions for personnel who work with nonhuman primates, their tissues or	Χ				
•	Respiratory protection is available when performing airborne particulate work (Guide,	V				
•	Hearing protection is provided in high noise areas (Guide, p_22)	Χ				
•	Waste anesthetic gases are scavenged (Guide, p 21)	X				
	laws (Guide, p 22) must	X				
	o If serum samples are collected, the purpose is consistent with federal and state	X				
	o Considers confidentiality and other legal factors as required by federal, state and	v				
-	o Promotes early diagnosis of allergies including preexisting conditions (<i>Guide</i> , p 22)	X				-
-	etc. (<i>Guide</i> , <u>p 23</u>)	X		-		
	o Procedures for reporting and treating injuries, including accidents, bites, allergies,	-				
	 Zoonosis surveillance as appropriate (e.g., Q-fever, tularemia, Hantavirus, plague) (Guide, p 23) 	Х				
	(Guide, p 22) o Zoonosis surveillance as appropriate (e.g., Q-fever, tularemia, Hantavirus, plague)	X				
	o Immunizations as appropriate (e.g., rabies, tetanus) and tests as appropriate					
	Pre-employment evaluation including health history (Guide, p 22)	Χ				
•	Program for medical evaluation and preventive medicine for personnel includes:	,,				_
•	21)	X				
•	agents are in place (Guide, p 21) Personal Protective Equipment for the work area is appropriate and available (Guide, p	X	-			-
•	Procedures for use, storage, and disposal of hazardous biologic, chemical, and physical					
-	policies) (Guide, p 20)	X				
•	Personal hygiene procedures are in place (e.g., work clothing, eating/drinking/smoking					
•	hygiene, special precautions, animal allergies) (Guide, p 20)	Х				
•	(Guide, p 19) Personnel training is provided based on risk (e.g., zoonoses, hazards, personal	X				+
•	Hazardous facilities are separated from other areas and identified as limited access	V				
•	Changing, washing, and showering facilities are available as appropriate (Guide, p 19)	Χ				
•	Program covers all personnel who work in laboratory animal facilities (Guide, p 18)	Χ				
	p_17) must	X				
10.	Occupational Health and Safety of Personnel Program is in place and is consistent with federal, state, and local regulations (Guide,	A	141	3		IVA
10.	Occupational Hoalth and Safety of Borconnol	۸	М	S	C	NA
	o Ethics of animal use and Three R's (Guide, p 17)	X				
	o IACUC function (Guide, p 17)	Χ				
	o Animal care and use legislation (<i>Guide</i> , <u>p</u> <u>17</u>)	X				
	 Use of hazardous agents, including access to OSHA chemical hazard notices where applicable (Guide, p 20) 	Х				
	IV.A.1.q.)	Χ				
	 Research/testing methods that minimize animal pain or distress (PHS Policy, 					
	(PHS Policy, <u>IV.A.1.g.</u>)	X				
	17)xiii o Research/testing methods that minimize numbers necessary to obtain valid results	X				
	pre- and post-operative care, aseptic surgical techniques and euthanasia (Guide, p	.,				
	o Humane practices of animal use (e.g., research procedures, use of anesthesia,					

security (Guide, p 23)

X

12.	Investigating & Reporting Animal Welfare Concerns	A	M	S	С	NA
•	Methods for investigating and reporting animal welfare concerns are established					
	(Guide, p 23) must	X	E			
•	Reported concerns and corrective actions are documented (Guide, p 24)	X				
•	Mechanisms for reporting concerns are posted in facility and at applicable website with					
	instructions (Guide, p 24)	Х				
	o Includes multiple contacts (Guide, p 24)	Χ				
	o Includes anonymity, whistle blower policy, nondiscrimination and reprisal					
	protection (Guide, p 24)	Χ				

Veterinary Care

. Clinical Care and Management	A	M	S	С	NA
 Veterinary program offers high quality of care and ethical standards (Guide, p 105) 		S /			
[must]	X	<u> </u>			
 Veterinarian provides guidance to all personnel to ensure appropriate husbandry, 					
handling, treatment, anesthesia, analgesia, and euthanasia (Guide, p 106)	X				
 Veterinarian provides oversight to surgery and perioperative care (Guide, p 106) 	X				
 Veterinary care program is appropriate for program requirements (Guide, pp 113-114) X				
 Veterinarian(s) is familiar with species and use of animals and has access to medical 					
and experimental treatment records (Guide, p 114)	X				
 Procedures to triage and prioritize incident reports are in place (Guide, p 114) 	X				
Procedures are in place to address:					
o Problems with experiments to determine course of treatment in consultation with					
investigator (<i>Guide</i> , p 114)	X				
o Recurrent or significant health problems with the IACUC and documentation of					
treatments and outcomes (Guide, p 114)	X				
o Veterinary review and oversight of medical and animal use records (Guide, p 115)	X	_			
 Procedures established for timely reporting of animal injury, illness, or disease (Guide) 		-			
p 114) must	X				
		-			
• Procedures established for veterinary assessment, treatment, or euthanasia (<i>Guide</i> , <u>p</u> 114) must	X				
		\vdash			
 Veterinarian is authorized to treat, relieve pain, and/or euthanize (Guide, p. 114) 					
must	X	-			
. Animal Procurement and Transportation/Preventive Medicine	A	M	S	C	N
Procedures for lawful animal procurement are in place (Guide, p 106) [must]	X				
Sufficient facilities and expertise are confirmed prior to procurement (<i>Guide</i> , <u>p 106</u>)	X				
 Procurement is linked to IACUC review and approval (Guide, p_106) 	X	-	-		1
 Random source dogs and cats are inspected for identification (Guide, p 106) 	+^-				
July 25, 2016: Dogs and cats are not obtained from Class B dealers.					Х
	X				^
Population status of wildlife species is considered prior to procurement (Guide, p_106)		-	-		-
Appropriate records are maintained on animal acquisition (Guide, p 106) Animal variety (Guide, p 106)	X		-		
Animal vendors are evaluated to meet program needs and quality (Guide, p 106)	X	-	-		-
Breeding colonies are based on need and managed to minimize numbers (Guide, p					
107)	X	₩			
 Procedures for compliance with animal transportation regulations, including 					
international requirements, are in place (Guide, p 107) [must]	X				
 Transportation is planned to ensure safety, security and minimize risk (Guide, p 107) 	X				
 Movement of animals is planned to minimize transit time and deliveries are planned to 					
	X				
ensure receiving personnel are available (Guide, pp 107- 108)					
 Appropriate loading and unloading facilities are available (Guide, p 109) 	X				
 Appropriate loading and unloading facilities are available (Guide, p 109) Environment at receiving site is appropriate (Guide, p 109) 					
 Appropriate loading and unloading facilities are available (Guide, p 109) 	X	3 /			
 Appropriate loading and unloading facilities are available (Guide, p 109) Environment at receiving site is appropriate (Guide, p 109) 	X				
 Appropriate loading and unloading facilities are available (Guide, p 109) Environment at receiving site is appropriate (Guide, p 109) Policies in place on separation by species, source, and health status (Guide, pp 109, 111-112) 	X				
 Appropriate loading and unloading facilities are available (Guide, p 109) Environment at receiving site is appropriate (Guide, p 109) Policies in place on separation by species, source, and health status (Guide, pp 109, 111-112) Procedures in place for quarantine to include zoonoses prevention (Guide, p 110) 	X X				
 Appropriate loading and unloading facilities are available (Guide, p 109) Environment at receiving site is appropriate (Guide, p 109) Policies in place on separation by species, source, and health status (Guide, pp 109, 111-112) Procedures in place for quarantine to include zoonoses prevention (Guide, p 110) Quarantined animals from different shipments are handled separately or physically 	X X X				
 Appropriate loading and unloading facilities are available (Guide, p 109) Environment at receiving site is appropriate (Guide, p 109) Policies in place on separation by species, source, and health status (Guide, pp 109, 111-112) Procedures in place for quarantine to include zoonoses prevention (Guide, p 110) Quarantined animals from different shipments are handled separately or physically separated (Guide, p 110) 	X X X X				
 Appropriate loading and unloading facilities are available (Guide, p 109) Environment at receiving site is appropriate (Guide, p 109) Policies in place on separation by species, source, and health status (Guide, pp 109, 111-112) Procedures in place for quarantine to include zoonoses prevention (Guide, p 110) Quarantined animals from different shipments are handled separately or physically separated (Guide, p 110) Procedures in place for stabilization/acclimation (Guide, pp 110-111) 	X X X X				
 Appropriate loading and unloading facilities are available (Guide, p 109) Environment at receiving site is appropriate (Guide, p 109) Policies in place on separation by species, source, and health status (Guide, pp 109, 111-112) Procedures in place for quarantine to include zoonoses prevention (Guide, p 110) Quarantined animals from different shipments are handled separately or physically separated (Guide, p 110) Procedures in place for stabilization/acclimation (Guide, pp 110-111) Policies in place for isolation of sick animals (Guide, p 112) 	X X X X				
 Appropriate loading and unloading facilities are available (Guide, p 109) Environment at receiving site is appropriate (Guide, p 109) Policies in place on separation by species, source, and health status (Guide, pp 109, 111-112) Procedures in place for quarantine to include zoonoses prevention (Guide, p 110) Quarantined animals from different shipments are handled separately or physically separated (Guide, p 110) Procedures in place for stabilization/acclimation (Guide, pp 110-111) Policies in place for isolation of sick animals (Guide, p 112) Program is in place for surveillance, diagnosis, treatment and control of disease to 	X X X X X				
 Appropriate loading and unloading facilities are available (Guide, p 109) Environment at receiving site is appropriate (Guide, p 109) Policies in place on separation by species, source, and health status (Guide, pp 109, 111-112) Procedures in place for quarantine to include zoonoses prevention (Guide, p 110) Quarantined animals from different shipments are handled separately or physically separated (Guide, p 110) Procedures in place for stabilization/acclimation (Guide, pp 110-111) Policies in place for isolation of sick animals (Guide, p 112) Program is in place for surveillance, diagnosis, treatment and control of disease to include daily observation (Guide, p 112) 	X X X X X X				
 Appropriate loading and unloading facilities are available (Guide, p 109) Environment at receiving site is appropriate (Guide, p 109) Policies in place on separation by species, source, and health status (Guide, pp 109, 111-112) Procedures in place for quarantine to include zoonoses prevention (Guide, p 110) Quarantined animals from different shipments are handled separately or physically separated (Guide, p 110) Procedures in place for stabilization/acclimation (Guide, pp 110-111) Policies in place for isolation of sick animals (Guide, p 112) Program is in place for surveillance, diagnosis, treatment and control of disease to 	X X X X X				
 Appropriate loading and unloading facilities are available (Guide, p 109) Environment at receiving site is appropriate (Guide, p 109) Policies in place on separation by species, source, and health status (Guide, pp 109, 111-112) Procedures in place for quarantine to include zoonoses prevention (Guide, p 110) Quarantined animals from different shipments are handled separately or physically separated (Guide, p 110) Procedures in place for stabilization/acclimation (Guide, pp 110-111) Policies in place for isolation of sick animals (Guide, p 112) Program is in place for surveillance, diagnosis, treatment and control of disease to include daily observation (Guide, p 112) Diagnostic resources are available for preventive health program (Guide, p 112) 	X X X X X X	M	s	C	N
 Appropriate loading and unloading facilities are available (Guide, p 109) Environment at receiving site is appropriate (Guide, p 109) Policies in place on separation by species, source, and health status (Guide, pp 109, 111-112) Procedures in place for quarantine to include zoonoses prevention (Guide, p 110) Quarantined animals from different shipments are handled separately or physically separated (Guide, p 110) Procedures in place for stabilization/acclimation (Guide, pp 110-111) Policies in place for isolation of sick animals (Guide, p 112) Program is in place for surveillance, diagnosis, treatment and control of disease to include daily observation (Guide, p 112) Diagnostic resources are available for preventive health program (Guide, p 112) Surgery	X X X X X X X	M	S	С	N
 Appropriate loading and unloading facilities are available (Guide, p 109) Environment at receiving site is appropriate (Guide, p 109) Policies in place on separation by species, source, and health status (Guide, pp 109, 111-112) Procedures in place for quarantine to include zoonoses prevention (Guide, p 110) Quarantined animals from different shipments are handled separately or physically separated (Guide, p 110) Procedures in place for stabilization/acclimation (Guide, pp 110-111) Policies in place for isolation of sick animals (Guide, p 112) Program is in place for surveillance, diagnosis, treatment and control of disease to include daily observation (Guide, p 112) Diagnostic resources are available for preventive health program (Guide, p 112) Surgery Surgical outcomes are assessed and corrective changes instituted (Guide, p 115) 	X X X X X X	M	S	C	N
 Appropriate loading and unloading facilities are available (Guide, p 109) Environment at receiving site is appropriate (Guide, p 109) Policies in place on separation by species, source, and health status (Guide, pp 109, 111-112) Procedures in place for quarantine to include zoonoses prevention (Guide, p 110) Quarantined animals from different shipments are handled separately or physically separated (Guide, p 110) Procedures in place for stabilization/acclimation (Guide, pp 110-111) Policies in place for isolation of sick animals (Guide, p 112) Program is in place for surveillance, diagnosis, treatment and control of disease to include daily observation (Guide, p 112) Diagnostic resources are available for preventive health program (Guide, p 112) Surgery	X X X X X X X	M	S	C	N

	anesthetic and analgesic use, peri-operative care, recordkeeping) (Guide, p 116)					
	 Aseptic surgery is conducted in dedicated facilities or spaces, unless exception justified and IACUC approved (Guide, p_116) 	X				
	Surgical procedures including laparoscopic procedures are categorized as major or	^				
	minor (Guide, pp. 117-118)	X				
	• For nonsurvival surgery, the site is clipped, gloves are worn and instruments and are					
_	are clean (<i>Guide</i> , <u>p</u> <u>118</u>)	X				
	Aseptic technique is followed for survival surgical procedures (Guide, pp 118-119)	X	-			
	Effective procedures for sterilizing instruments and monitoring expiration dates on sterile packs are in place (Cuido p. 110).	V				
H	sterile packs are in place (Guide, <u>p_119</u>) • Procedures for monitoring surgical anesthesia and analgesia are in place (Guide, <u>p</u>	X				
	119)	X				
	 For aquatic species, skin surfaces are kept moist during surgical procedures (Guide, 		-			
	<u>119</u>)	X				
	 Post-operative monitoring and care are provided by trained personnel and document 	ed				
	(e.g., thermoregulation, physiologic function, analgesia, infection, removal of skin					
	closures) (Guide, pp 119-120)	X				
4.	Pain, Distress, Anesthesia and Analgesia	. A	M	S	C	NA
	Guidelines for assessment and categorization of pain, distress and animal wellbeing					
	are provided during training (Guide, p_121)	X		_		
	 Selection of analgesics and anesthetics is based on professional veterinary judgment 					
_	(Guide, p 121)	X				
	Painful procedures are monitored to ensure appropriate analgesic management (Cuido p. 122)	V				
_	 (Guide, p 122) Nonpharmacologic control of pain is considered as an element of postprocedural care 	X				
	(Guide, p 122)	X				
	 Procedures are in place to assure antinoception before surgery begins (Guide, p 122 					
	must	X				
	 Guidelines for selection and use of analgesics and anesthetics are in place and 					
_	regularly reviewed and updated (Guide, p_122)	X				
	Special precautions for the use of paralytics are in place to ensure anesthesia xiv	127				
	(Guide, p 123)	X				
5.	Euthanasia	Α	M	S	С	NA
	 Methods are consistent with AVMA Guidelines on Euthanasia unless approved by the 					
_	IACUC (Guide, p 123)	X				
	Standardized methods are developed and approved by the veterinarian and IACUC that avoid distress and consider animal are and energies (Civide and 122, 124).	V				
H	 that avoid distress and consider animal age and species (Guide, pp 123-124) Training is provided on appropriate methods for each species and considers 	X				-
	 Training is provided on appropriate methods for each species and considers psychological stress to personnel (Guide, p 124) 	X				
	 Procedures and training are in place to ensure death is confirmed (Guide, p 124) 			- 3		
	[must]	X				
<u>_</u>	Drug Storage and Central	^	М	S	С	NA
0.	 Drug Storage and Control Program complies with federal regulations for human and veterinary drugs(Guide, p 	A	TAI	Э	C	ITA
	115) [must]	X				
	 Drug records and storage procedures are reviewed during facility inspections (Guide 115) 	, <u>р</u> Х				
	 Procedures are in place to ensure analgesics and anesthetics are used within expiration date (Guide, p 122) must 	х				
	Anesthetics and analgesics are acquired, stored, and their use and disposal are					
	recorded legally and safely (Guide, p 122)	X				

II. Semiannual Facility Inspection Checklist

ARC inspections are performed on a rolling basis and reports for each month of laboratory and vivarium inspections are provided to the Institutional Official on an ongoing basis.

III. Semiannual Program Review and Facility Inspection Report

A report detailing deficiencies identified during the prior months set of inspections, as well as plan/schedule for correction of those deficiencies, is reviewed/approved by the ARC at a convened meeting the month following those inspections (e.g., the report pertaining to inspections performed in January is reviewed at an ARC meeting in February). Reports are forwarded to the IO upon resolution of deficiencies.

Deficiencies identified during the program review are highlighted and described in Section I, then summarized in the Report to IO.

IV. Endnotes

¹ The PHS Policy requires that Assured institutions comply with the regulations (9 CFR, Subchapter A) issued by the U.S. Department of Agriculture (USDA) under the Animal Welfare Act, as applicable. The endnotes below are specific USDA regulatory requirements that differ from or are in addition to the PHS Policy. This list is not intended to be all inclusive. For additional information please refer to 9 CFR Subchapter A - Animal Welfare.

- ⁱⁱ Part 2 Subpart C Research Facilities
- 2.31(b)(2) "The Committee shall be composed of a Chairman and at least two additional members;... at least one shall not be affiliated in any way with the facility...such person will provide representation for general community interests in the proper care and treatment of animals." [PHS policy requires 5 members]
- iii 2.32(c)(4) "...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." [USDA requirement additional to PHS Policy]
- iv 2.31(d)(5) "...shall conduct continuing reviews of activities...not less than annually." [PHS Policy requires a complete new review every 3 years utilizing all the criteria for initial review]
- ^v 2.31(d)(1)(x) "...no animal will be used in more than one major operative procedure from which it is allowed to recover unless...(it is) justified for scientific reasons...(or is) required as routine veterinary procedure...or other special circumstances as determined by the Administrator on an individual basis." [this last point is an additional USDA justification for multiple survival surgeries]
- vi 2.36 "...each reporting facility shall submit an annual report to the APHIS, AC sector supervisor for the State where the facility is located on or before December 1 of each calendar year." [The USDA annual report has a list of requirements which differ from PHS annual report]
- vii 2.36(b)(3) "...exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the IACUC. A summary of all such exceptions must be attached to the facility's annual report." [Refers to USDA annual report]
- viii 2.31(c)(3) "...Any failure to adhere to the plan and schedule that results in a significant deficiency remaining uncorrected shall be reported in writing within 15 business days by the IACUC, through the institutional official, to APHIS and any Federal agency funding that activity." [PHS Policy requires prompt reporting to OPRR of serious or continuing noncompliance with the PHS Policy or serious deviations from the provisions of the *Guide*]
- ix 2.36 "...each reporting facility shall submit an annual report to the APHIS, AC sector supervisor for the State where the facility is located on or before December 1 of each calendar year." [The USDA annual report has a list of requirements which differ from PHS annual report]
- x In addition to PHS requirements for IACUC review/application for funding, USDA regulations require: 2.31(d)(1)(ii) "The principal investigator (PI) consider alternatives to procedures that cause more than momentary or slight pain or distress to the animals, and has provided a written narrative description of the methods and sources...used to determine that alternatives were not available."
 - 2.31(d)(1)(iii) "The PI has provided written assurance that the activities do not unnecessarily duplicate previous experiments."
 - 2.31(d)(1)(iv) "Procedures that may cause more than momentary or slight pain or distress to the animals will:
 - involve in their planning, consultation with the attending veterinarian or his or her designee; [PHS Policy does not specify veterinary consultation]
 - not include paralytics without the use of anesthesia;"

- 2.31(d)(1)(x) "No animal will be used in more than one major operative procedure from which it is allowed to recover, unless justified for scientific reasons by the principal investigator, in writing..."
- xi 2.33(a)(1) "In the case of a part-time attending veterinarian or consultant arrangements, the formal arrangements shall include a written program of veterinary care and regularly scheduled visits to the research facility." [USDA requirement additional]
- xii 2.32(c) "Humane methods of animal maintenance and experimentation, including the basic needs of each species, proper handling and care for the various species of animals used by the facility, proper pre-procedural and post-procedural care of animals, and aseptic surgical methods and procedures."
- xiii 2.32(c) additional specifications include:
- "proper use of anesthetics, analgesics, and tranquilizers for any species of animals used by the facility"
- "methods whereby deficiencies in animal care and treatment are reported, including deficiencies in animal care and treatment reported by any employee of the facility..."
- "utilization of services (e.g., National Agricultural Library, National Library of Medicine) to provide information on appropriate animal care and use, alternatives to the use of live animals in research , that could prevent unintended and unnecessary duplication of research involving animals, and regarding the intent and requirements of the Act." [USDA training specifications are more detailed than PHS Policy].
- xiv 2.31(d)(iv)(C) "Procedures that may cause more than momentary or slight pain or distress to the animals will...not include the use of paralytics without anesthesia."