

MEMORANDUM

To: [REDACTED]
Institutional Official

From: [REDACTED]
Attending Veterinarian

Date: 5/1/2019

Subject: Semi-Annual Report of Inspection of UNLV Animal Facilities and Review of the UNLV Laboratory Animal Care and Use Program for Apr 2019.

As required by the Federal Animal Welfare Act and Public Health Service Policy on the Humane Care and Use of Laboratory Animals, forwarded herewith is a copy of the subject report for your information.

[REDACTED], D.V.M., Ph.D., ACLAM

cc: [REDACTED]

This document is for [REDACTED] review as Institutional Official for the UNLV Animal Care and Use program. Please acknowledge that you have received this document by signing below. Please return this page only to [REDACTED]. Thank you.

I have received the Semi-Annual Inspection of Animal Facilities and Review of the University's Animal Care and Use Program for Apr 2019.

Name

Date

University of Nevada, Las Vegas
Semi-Annual Inspection of Animal Facilities and
Review of the University's Animal Care and Use Program
Apr 2019

I. General

- A. For the record, all members of the Institutional Animal Care and Use Committee were notified by email, dated Mar 28, 2019 of the schedule for the semi-annual inspections.

II. Animal Care and Use Program

- A. All aspects of the University's Animal Care and Use Program are in compliance with the provisions of the Federal Animal Welfare Act (AWA) and the Public Health Service's (PHS) Policy on the Care and Use of Laboratory Animals (PHS Policy).
- B. Reports of semiannual program reviews and facility inspections, including minority views have been faithfully submitted in a timely manner to the Institutional Official.
- C. Required annual reports have been faithfully submitted in a timely manner to the Office of Laboratory Animal Welfare and the USDA.
- D. Records of IACUC meetings and semiannual reports are being maintained for at least three years.
- E. The IACUC review of activities involving animals includes all the required information and review documentation is being maintained for 3 years after the end of each study.
- F. Adequate veterinary care is being provided.
- a. [REDACTED] provides adequate guidance to investigators on handling, immobilization, sedation, analgesia, anesthesia, and euthanasia.
 - b. [REDACTED] provides adequate guidance and oversight to investigators on surgery and postsurgical care.
 - c. Euthanasia is being performed in compliance with the current AVMA Guide on Euthanasia (unless otherwise approved by the IACUC).
 - d. UNLV has given [REDACTED], as the attending veterinarian, the authority to oversee all aspects of animal care and use.
- G. UNLV provides a training program for professional/management/supervisory/and animal care personnel as well as investigators and their staff. Regular training seminars are provided that cover:
- a. Humane practices of animal care (housing, husbandry, and handling).

- b. Humane practices of animal use (research procedures, anesthesia, pre and post-operative care).
 - c. Methods for minimizing the number necessary to achieve valid results.
 - d. Methods for minimizing pain and distress.
 - e. Safe and proper use of hazardous agents and OSHA standards.
 - f. How to report concerns regarding animal research to the appropriate authorities.
- H. The following are areas of the program of animal care and use from the Apr 2018 Semi-Annual Report identified for improvement and modification by the IACUC and their resolution:
- a. The committee recommends all single housed social species be provided with extra enrichment. Single housed species are provided with extra enrichment unless specifically exempted and approved by the IACUC for scientific reasons.
- I. Major and minor deficiencies noted during the inspection of facilities and identified in the Oct 2018 Semi-Annual Report were corrected by the deadline given unless otherwise noted below:
- a. Major deficiencies not corrected and reason: none, all corrections made prior to deadlines given.
 - b. Minor deficiencies not corrected and reason: none, all corrections made prior to deadlines given.
- J. The IACUC reviewed the UNLV animal care and use program on Apr 11, 2019. The program was found to be acceptable with the following recommendations:
- a. No recommendations

III. [REDACTED] Animal Facility - Inspected Apr 11, 2019

- A. IACUC Participants: [REDACTED]
- B. Facility Participants: [REDACTED]
- C. Animal Status: All animals in the facility were observed to be in cages, aquaria, or terraria appropriate for the species and which meet or exceed legal size requirements. In addition, all animals appeared to be in excellent health.

- D. Facility Status: Corridors, door, windows, floors, and ceilings are clean. Temperature, humidity, ventilation, illumination, and noise control in animal rooms are acceptable.

Except as noted below, the facility was in full compliance with applicable provisions of the AWA and PHS Policy:

1. Major Deficiencies: None

2. Minor Deficiencies:

- a. Room [REDACTED]
 - i. [REDACTED] lab cart, bedding should be cleaned from cart at end of each day.
- b. Room [REDACTED]
 - i. Charcoal canister on anesthesia machine is overweight.
- c. Room [REDACTED]
 - i. Mop bucket is dirty
- d. Room [REDACTED]
 - i. Once opened, the fruit loop bag needs to be in a secondary container.
 - ii. Unlabeled treats in a small container, no name or expiration date.
- e. Room [REDACTED]
 - i. Take the protective paper film off of the acrylic cubes.
- f. Room [REDACTED]
 - i. Expired fish food and nutra-gel in refrigerator.
- g. [REDACTED]
 - i. Touch up paint on T-Maze

Deficiencies must be corrected by next semi-annual.

E. Procedures Status:

- 1. Frequency of bedding changes, cleaning and disinfection, and monitoring of cages is adequate.
- 2. Adequate access to feed and water is being provided.
- 3. Feed is being stored in sealed containers, with monitoring of expiration dates and rotation of stocks.
- 4. Procedures are in place for proper collection, storage and disposal of waste, hazardous waste, and animal carcasses.
- 5. Adequate provisions have been established for emergency, weekend, and holiday care.
- 6. Procedures for animal identification are adequate.
- 7. Proper storage procedures are followed for food and bedding, supplies, drugs and biologics, wastes, hazardous materials, and carcasses.

Except as noted, all procedures in use in the facility meet or exceed applicable provisions of the Federal Animal Welfare Act (AWA) and Public Health Service's (PHS) Policy,

specifically husbandry and veterinary procedures were reviewed with [REDACTED] and were considered to be compliant with contemporary standards and IACUC approvals.

IV. [REDACTED] Laboratories - Inspected Apr 11, 2019

Except as noted below Investigator labs in [REDACTED] were inspected and found to be in compliance with applicable standards and IACUC approvals.

A. [REDACTED] Laboratory, [REDACTED]

IACUC Participants: [REDACTED]

Facility Participants:

1. Major Deficiencies: None

2. Minor Deficiencies:

a. None

B. [REDACTED] Lab – [REDACTED]

IACUC Participants: [REDACTED]

Facility Participants:

1. Major Deficiencies: None

2. Minor Deficiencies:

a. Dead frog stored in freezer right above feed.

b. One static tank and one other black plastic bin used as a tank with no enrichment.

c. Stack of air filters stored in lab that do not belong in the lab.

Deficiencies must be corrected by next semi-annual.

D. [REDACTED] Inspected Apr 24, 2019

IACUC Participants: [REDACTED]

Facility Participants: [REDACTED]

1. Major Deficiencies: None

2. Minor Deficiencies:

a. None

b.

E. [REDACTED] Lab, [REDACTED], Inspected Mar 25, 2019

IACUC Participants: [REDACTED]

Facility Participants: [REDACTED]

3. Major Deficiencies: None

4. Minor Deficiencies:
 - a. None

V. Departures from the Guide

The following departures from the *Guide* have been reviewed and approved by the IACUC:

- A. Exception: Lack of humidification control in existing HVAC system in [REDACTED] animal facility.
Justification: Temperature and humidity is monitored daily. No adverse health or research conditions have been found at the cage level. If such issues arise, IACUC will investigate installation of a humidification system.
Approved: IACUC meeting July 17, 2008.
 - a. Humidity was measured inside rodent cages as a metric for evaluating the necessity or the exception of a facility wide humidification system. Humidity measurements from inside the cage were 26-46%.
- B. Exception: Single housing of animals for a specified duration when scientific justification is provided by PI. Approved: IACUC meeting July 17, 2008.
- C. Exception: Exchange rate of air in e-chamber is below the recommendation.
Justification: Species housed in the chambers are not affected by a lower air exchange rate as they do not defecate or urinate significantly during torpor. HEPA filters with carbon prefilters have been installed to maintain air quality. Ammonia levels are monitored by PI.
Approved: R1112-282 ([REDACTED]) on 3/12/13
- D. Exception: The temperature in the e-chamber required for hibernation, is outside of the normal range for housing animals.
Justification: Lower temperatures are required for hibernation.
Approved: R701-0502-168 ([REDACTED]) on 5/27/2011. R1112-282 ([REDACTED]) on 3/12/13
- E. Exception: Euthanasia of hibernators by decapitation or cervical dislocation without anesthesia while in torpor.
Justification: Low respiratory and heart rates during torpor means that drug administration or CO₂ asphyxiation is ineffective.
Approved: R701-0502-168 ([REDACTED]) on 5/27/2011. R1112-282 ([REDACTED]) on 3/12/13
- F. Exception: Cages in e-chambers are not changed on a regular schedule while animals are in torpor.
Justification: This exception applies only while animals are in torpor. Changing cages would actually be detrimental to the animals as it would induce arousals from torpor. While in torpor the cages are not changed or sanitized during the entire duration of torpor.
Approved: R1112-282 ([REDACTED]) on 3/12/13
- G. Exception: Food may be removed from animal cages just prior to and during torpor.

Justification: Hibernators normally spontaneously become anorexic, but on occasion torpor needs to be induced using food withdrawal.
R1112-282 ([REDACTED]) on 3/12/13

- H. Exception: Lighting, Hibernators may be housed in the dark to simulate hibernation in burrows. Justification: This light cycle mimics the natural environment during hibernation.

Approved: R1112-282 ([REDACTED]) on 3/12/13

- I. Exception: Hand/manually disinfecting aquatic tanks when not sanitized in cage washer. Justification: The cage washer may leave trace amounts of detergents on the cages as the internal sump can not be completely drained. Appropriate hand washing and disinfection with proper rinsing and drying is adequate for aquatic tanks. Adequacy of sanitation procedures will be periodically monitored.

Approved: IACUC Meeting 4/18/13

- J. Exception: [REDACTED] under protocol 287, are housed in an e-chamber. The e-chamber does not meet the guidelines for ventilation and temperature range.

Justification: The e-chamber is necessary to control precise temperatures for the study which compares chytrid susceptibility at 22C and 28C.

- K. Exception: Lids and feeders in ventilated cages are changed out every two weeks.

Justification: There are no signs of dust or changes in ventilation performance to indicate more frequent changing is needed.

Approved: IACUC Meeting 4/21/16.

- L. Exception: Ventilated cage bottoms and bedding are changed out every two weeks.

Justification: Ammonia levels were measured in a cage with 6 adult male mice over a 14 day period. Ammonia levels on day 14 were ~6-7 ppm, bedding and nesting materials were in acceptable condition.

Approved: IACUC Meeting 5/18/17.

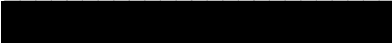










Report prepared by: _____

[REDACTED]

Report adopted by the Institutional Animal Care and Use Committee at its meeting on May 16, 2019.

[REDACTED]

University of Nevada, Las Vegas
Semi-Annual Inspection of Animal Facilities and Review
of the University's Animal Care and Use Program
Apr 2019

<u>Concurrence</u>	<u>A Minority Report is Appended</u>
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