

**Northern Arizona University Institutional Animal Care and Use Committee (IACUC)**  
**Semiannual Report to the Institutional Official (IO)**

October 29, 2019

Dr. David M. Faguy  
Institutional Official  
Assistant Vice President, Office of Research Compliance  
Northern Arizona University  
PO Box 4137  
Flagstaff, Arizona 86011-4137

Dear Dr. Faguy,

Enclosed is the latest semiannual report of the Institutional Animal Care and Use Committee. This report is required by Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals and as a condition of Northern Arizona University's (NAU) Animal Welfare Assurance on file with the Office of Laboratory Animal Welfare (OLAW) and the United States Department of Agriculture (USDA) Animal Welfare Regulations, 9 CFR Chapter I, subchapter A, as applicable.

This report covers the period from April 27, 2019 through October 4, 2019.

**Inspection of Animal Facilities:**

The IACUC performed inspections of animal use areas on between September 25, 2019 to October 4, 2019. These inspections were performed using the Guide for the Care and Use of Laboratory Animals 8<sup>th</sup> edition and, where applicable, 9 CFR Chapter I, 2.31 as the basis for evaluation. As per USDA/NIH guidelines, deficiencies are categorized as major or minor. Major deficiencies are those that pose an immediate, significant threat to animal health or safety. Minor deficiencies are less immediate and less serious but require attention to comply with federal regulations. As per regulations, dates by which deficiencies must be resolved are included.

Notices were sent to appropriate Principal Investigators, faculty and staff members.

**The following MAJOR deficiency was identified during the facility inspections:**

- A. [REDACTED]
1. Amphibians (bullfrogs) were housed in the lab, though not approved to be housed in the lab and had been moved off campus prior to the inspection.

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2. The above amphibians were ordered by the Biology Department rather than through the BSA as required by university and IACUC policy and BSA was not aware of animals living in 219A until inspection.

Deadline for Corrections: October 25, 2019

**All deficiencies were corrected.**

**The following MINOR deficiencies were identified during the facility inspections:**

- A. [REDACTED]
1. In [REDACTED] missing copies of SOPs for: animal husbandry, receipt, disposal and euthanasia; zoonotic risk, lab hazards, potential bites, and allergic reactions; cleaning of holding and use; active protocol copy
  2. Please post emergency contact information for Interim Attending Veterinarian ([denardo@asu.edu](mailto:denardo@asu.edu) and 480.965.3325 office phone) and BSA manager [REDACTED]).
  3. Print training log for those working with animals, which includes name of trainee, date trained, procedure learned, and person who trained them.
  4. Substrate for housing stored on floor; needs to be 6" above floor and away from wall
  5. No labels on containers (food/solids/liquids)

Deadline for Corrections: October 25, 2019

**All deficiencies were corrected.**

- B. [REDACTED]
1. Label food with mill date.

Deadline for Corrections: October 25, 2019

**All deficiencies were corrected.**

- C. [REDACTED]
1. [REDACTED] no emergency contacts, SOPs, or training logs
  2. [REDACTED] unable to locate cage labels with protocol numbers, etc. or SOPs
  3. [REDACTED] no emergency contact
  4. [REDACTED] no emergency contact numbers

Deadline for Corrections: October 25, 2019

**All deficiencies were corrected.**

- D. [REDACTED]
1. Make copies of SOPs for disposal and euthanasia, zoonotic risk, and allergic reactions which are so nicely organized and add to [REDACTED]
  2. Post emergency contact numbers in [REDACTED] and include veterinarian contact: [denardo@asu.edu](mailto:denardo@asu.edu) .
  3. Add training log for euthanasia to [REDACTED]; update training log in [REDACTED]
  4. Unlabeled solid chemical on bench of [REDACTED]
  5. Sharps not stored properly
  6. Moldy food in fridge
  7. Unlabeled dead frog in freezer
  8. Unlabeled carcass bags in freezer (add protocol, pi, species, etc.)
  9. Unidentified substances in freezer

Deadline for Corrections: October 25, 2019

**All deficiencies were corrected.**

- E. [REDACTED]
1. The inspectors found that while the scheduled/controlled drugs are in a locked box, in the locked laboratory, it is possible that unauthorized personnel could remove the drug box from the drug drawer out of the laboratory. The inspectors suggest that the drug box either be stored in a locked drawer or cabinet or secured to the existing drawer.

Deadline for Corrections: October 25, 2019

**All deficiencies were corrected.**

- F. [REDACTED]
1. Update emergency contact sheet with veterinary contact information
  2. Could not find training forms in "Training Records" binder

Deadline for Corrections: October 25, 2019

**All deficiencies were corrected.**

- G. [REDACTED] & vivarium & feeder fish enclosures for feeder fish
1. List emergency contact numbers outside of fish room and vivarium
  2. List current protocol numbers when listed
  3. List actual animal observations on vivarium sheet

Deadline for Corrections: October 25, 2019

**All deficiencies were corrected.**

H. [REDACTED]

1. No SOPs in room. Print SOP clearly stating activities in room and reiterate that all cleaning, disposal of embryos, etc. occurs in the BSA and not in the animal use room
2. Create training log that lists personnel who are carrying out behavioral assays
3. Create a delineation of where animal procedures are taking place

Deadline for Corrections: October 29, 2019

**All deficiencies were corrected.**

I. [REDACTED]

1. In process of moving to BSA; thorough inspection not completed.  
Disorganization related to move noted.

Deadline for Corrections: October 25, 2019

**All deficiencies were corrected**

The following locations did not have any MAJOR or Minor deficiencies:

- [REDACTED]
- [REDACTED]
- [REDACTED]

Inspection letters sent to PIs in regards to inspection findings and correcting deficiencies are attached to the final signed version of this document.

**Animal Care and Use Program Review:**

The IACUC conducted its semiannual review of the institution's Animal Care and Use Program on September 16, 2019 using the Guide for the Care and Use of Laboratory animals and, where applicable, 9 CFR Chapter I, 2.31 as basis for evaluation.

The NAU IACUC used the Office of Laboratory Animal Welfare (OLAW) checklist for semiannual program review. The use of the OLAW checklist was recommended by The Association for the Assessment and Accreditation of Laboratory Animal Care International (AAALAC) site visitors and the USDA Veterinary Medical Officer (VMO). This checklist will be used for all future semiannual program reviews. The NAU Policy and Procedure Manual (PPM) and AAALAC Program Description are maintained as comprehensive bodies of programmatic information.

**No MAJOR deficiencies were identified during this program review.**

**The following MINOR deficiency was identified during the program review:**

1.

**Minority Views**

No minority views were expressed regarding this semiannual report.

**Signatures**

**IACUC Members**

**Signatures**

Dale DeNardo, Interim Institutional Veterinarian

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[REDACTED]

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[REDACTED]

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Tad Theimer, Scientist, IACUC Chair

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[REDACTED]

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[REDACTED]

\*GSR is the graduate student representative