

## Annual Report to OLAW

Institution: Montana State University
Assurance Number: D16-00379
Reporting Period: 1 October 2020 – 30 September 2021

This institution's Institutional Animal Care and Use Committee (IACUC), through the Institutional Official, provides this annual report to the Office of Laboratory Animal Welfare (OLAW).

### I. Program Changes

- [ ☐ ] A. There have been **no changes** in this institution's program for animal care and use as described in the Assurance.
- [ ☒ ] B. Change(s) in this institution's program for animal care and use as described in the Assurance have occurred during this reporting period.

Select all that apply:

- [ ☐ ] This institution's AAALAC accreditation status has changed ([PHS Policy IV.A.2.](#)).
- [ ☒ ] [AAALAC Accredited](#) – Category 1
- [ ☐ ] Non-Accredited – Category 2
- [ ☒ ] This institution's program for animal care and use has changed ([PHS Policy IV.A.1.a-i.](#)).
- [ ☐ ] The individual designated by this institution as the Institutional Official has changed.
- [ ☒ ] The membership of this institution's IACUC has changed.

### II. Semiannual Evaluations

This IACUC has conducted semiannual evaluations of the institution's program and inspections of the institution's facilities (including satellite facilities) on the dates below. Reports of the evaluations and inspections have been submitted to the Institutional Official. The reports include any IACUC-approved departures from the *Guide* with a reason for each departure, any deficiencies (significant or minor) that were identified, and a plan and schedule for correction of each deficiency.

#### A. Program Evaluations

Date 1: 9, 19 November 2020	Date 2: 17, 24 May 2021
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**B. Facility Inspections**

Date 1: 13,16,17 November 2020	Date 2: 14,20 May; 1 June 2021
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**III. Minority Views**

- [ ☒ ] A. There were **no minority** views during this reporting cycle.
- [ ☐ ] B. Any minority views submitted by members of the IACUC regarding reports filed under [PHS Policy IV.E.](#) for this reporting cycle are attached.

**IV. Signatures**

IACUC Chairperson	Institutional Official
Name: Michael Babcock	Name: Jason Carter
Signature:  (b) (6)	Signature:  (b) (6)
Date: 11/11/2021   1:38 PM MST	Date: 11/11/2021   11:22 AM MST

**V. Change in Institutional Official**

Name:	
Title:	Degree/Credentials:
Name of Institution:	
Address:	
Phone:	Fax:
E-mail:	

**VI. Change in IACUC Membership**

<b>Institution: Montana State University</b>			
<b>IACUC Contact Information</b>			
Address: Office of Research Compliance P.O. Box 173085 Bozeman, MT 59717			
E-mail:	(b) (6)		
Phone:	(b) (6)	Fax:	
<b>IACUC Chairperson</b>			
Name: Michael Babcock			
Title: Professor, Department Head Earth Sciences		Degree/Credentials: Ph.D	
PHS Policy Membership Requirements***:			
<b>IACUC Roster</b>			
Name of Member/ Code*	Degree/ Credentials	Position Title/ Occupational Background**	PHS Policy Membership Requirements***
Michael Babcock	Ph.D	Professor, Department Head	Chair, Scientist
Janet Baer	DVM, DACLAM	Attending Veterinarian	Attending Veterinarian
(b) (6)			Scientist
			Scientist
			Scientist
			Scientist
			Scientist
			Non-affiliated Member
			Non-affiliated Member, Nonscientist
			Nonscientist
			Scientist

(b) (6)			Alternate/Scientist

\* Names of members, other than the chairperson and veterinarian, may be represented by a number or symbol in this report to OLAW. Sufficient information to determine that all appointees are appropriately qualified must be provided and the identity of each member must be readily ascertainable by the institution and available to authorized OLAW or other PHS representatives upon request.

\*\* List specific position titles for all members, including nonaffiliated (e.g., banker, teacher, volunteer fireman; not "community member" or "retired").

\*\*\* [PHS Policy](#) Membership Requirements:

<i>Veterinarian</i>	veterinarian with training or experience in laboratory animal science and medicine or in the use of the species at the institution, who has direct or delegated program authority and responsibility for activities involving animals at the institution.
<i>Scientist</i>	practicing scientist experienced in research involving animals.
<i>Nonscientist</i>	member whose primary concerns are in a nonscientific area (e.g., ethicist, lawyer, member of the clergy).
<i>Nonaffiliated</i>	individual who is not affiliated with the institution in any way other than as a member of the IACUC and is not a member of the immediate family of a person who is affiliated with the institution. This member is expected to represent general community interests in the proper care and use of animals and should not be a laboratory animal user or former user. A consulting veterinarian may not be considered nonaffiliated.

### Statement of Burden

Public reporting burden for this collection of information is estimated to average 90 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to: NIH, Project Clearance Branch, 6705 Rockledge Drive, MSC 7974, Bethesda, MD 20892-7974, ATTN: PRA (0925-0765). Do not return the completed form to this address.

## OLAW Annual Report Update

### Montana State University: D16-00379 Changes

#### New Attending Veterinarian

1. Name: Janet Baer D.V.M.

##### Degrees:

B.S., Animal Behavior, University of California, Davis, 1980

M.S., Veterinary Science, Washington State University, 1985

Doctor of Veterinary Medicine (*Cum Laude*), Washington State University, 1989

Diplomate, American College of Laboratory Animal Medicine, 1999

##### Training or experience in laboratory animal medicine:

Dr. Baer has over 30 years of experience working in laboratory animal medicine and programmatic oversight with multitude of species in both industry and academia. Prior to retirement in 2017 she served as the Attending Veterinarian/Director at California Institute of Technology for 25 years. She has served as an AAALAC site visitor and was a board member of the Southern Californian Branch of AALAS. Dr. Baer is a member of the APV, ASLAP, CVMA and PRIM&R. She has received numerous grants and awards and has served on six IACUC committees.

Authority: Dr. Janet Baer has direct and delegated program authority and responsibility for the Institution's animal care and use program including access to all animals.

##### AV Duties

- Oversee the care and utilization of animals intended for use in research, training, experimentation, or biological testing, to ensure humane care and treatment as outlined in the PHS policy, the 8<sup>th</sup> edition of the Guide for the Care and Use of Laboratory Animals, the Health Research Extension Act of 1985, and the Animal Welfare Act.
- Consult with principal investigators and provide veterinary expertise and facility oversight for IACUC dependent programs, while maintaining effective communications with researchers.
- In consultation with MSU's Institutional Animal Care and Use Committee (IACUC), revise, update and develop policies and procedures for the care and use of laboratory animals.
- Perform Veterinary pre-review of protocols and modifications and communicate with the PI and primary reviewer any animal related procedures that may require further detail or explanation and participate in monthly IACUC meetings.
- Review and contribute to annual reports or other reports as required to AAALAC, OLAW, and USDA. Host compliance/accreditation inspections or delegate this responsibility depending on the circumstance.
- Meet with the IO to discuss the animal program and facilities, as needed.
- Perform site visits monthly if possible or as needed to support program needs.

##### AV Delegated Responsibilities

- Support the training program that assures that personnel, including scientists, animal technicians, and other personnel involved with animal care are appropriately qualified and experienced to conduct procedures on living animals and arrange for in-service training in the

humane practice of animal maintenance and experimentation, and the concept, availability, and use of research or testing methods that limit the use of animals or limit animal distress. (ARC Manager, ARC technicians, PI's).

- Provide adequate veterinary care oversight in preventive, diagnostic and therapeutic medicine, prescribing medical treatments, assuring adequate pain management, and administering adequate anesthesia/sedation to laboratory animals. (Backup Vet will conduct in consultation with the AV)
- Arrange for postmortem examination as needed. (Contract pathologists, State of Montana Diagnostics Laboratory)

Time contributed to program: Dr. Baer dedicates approximately 20 hours a month to fulfill the responsibilities as described above.

## 6. IACUC Procedures for Protocol Review

- a) IACUC meetings may be conducted 100% virtually utilizing a meeting platform such as Teams, WebEX or Zoom or by utilizing a hybrid model in which committee members may attend in person or virtually.

Administrative Review of minor amendments was added.

Minor amendments may be approved by the IACUC Program Manager for the following changes:

- Addition or deletion of protocol associates
- Up to 10% increase in non USDA covered species

This list is not inclusive. IACUC leadership (Chair and/or Attending Veterinarian) may determine an amendment addressing other minor changes is acceptable for administrative approval.

- E. The risk-based occupational health and safety program for personnel working in laboratory animal facilities and personnel who have frequent contact with animals is as follows:

- Personnel training regarding zoonoses, chemical safety, physical hazards, allergies, handling of waste materials, precautions taken during pregnancy, illness, or immune suppression.
  - A custom CITI course was developed to cover all of the following zoonoses, chemical safety, physical hazards, allergies, handling of waste materials, precautions taken during pregnancy, illness, or immune suppression as applicable to the program at MSU. Completion of this course is mandatory for all personnel involved in the care and use of animals.
  - The MSU Department of Safety and Risk Management provides additional instruction in the use of safety equipment and oversees the Occupational Health Program and Chemical Safety. The Office of Research Compliance oversees the Biological Safety, and Radiation Safety programs. Also, personnel complete applicable (role based) CITI training modules.
  - Training is targeted based on the risk assessment and covers zoonoses, chemical safety, physical hazards, exposure to allergens, etc.

- G. The training or instruction available to scientists, animal technicians, and other personnel involved in animal care, treatment, or use is as follows:

The training program described below is required for all personnel involved in animal care and use, including scientists, students, and animal technicians.

Collaborative Institutional Training Initiative (CITI): A core curricula is required for all persons involved in animal care and use. Custom courses have been developed by MSU and added to CITI. Required courses include: Occupational Health Orientation- Research with Animals, Animal Biosafety, Investigators, Staff and Students- (IACUC, regulatory course), Principal Investigators(as applicable) and species specific courses. Completion of all required courses is necessary before addition to a protocol.

ARC Technologists and/or the veterinarian conduct one-on-one or virtual training of research personnel on animal procedures as necessary or by request. All personnel that work with animals must be listed on an approved protocol, relevant training documented and available for IACUC review.

The Attending Veterinarian or designee provides virtual or didactic training sessions which include veterinary oversight and regulations governing the use of animals in research, introduction to the "3R's", and procedures to minimize pain and distress. Personnel working with animals or performing procedures receive species specific training and assessment.

In addition, Principal Investigators attend training provided by the IACUC Program Manager; virtual or in person: Writing a Protocol Core Elements, Protocol Review Procedures, PI Responsibilities and PAM.