

Memorandum to: [REDACTED]

From: Central and Waterfront Campus Institutional Animal Care and Use Committee (IACUC)

Subject: Semiannual Report of the Program Review and Facility Inspection

Date: May 20, 2020 Covering July 1 through December 31, 2019

This report summarizes the Central & Waterfront Campus (CWC) 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):

New Member:

[REDACTED]
 [REDACTED]
 [REDACTED] (from voting member to alternate)
 [REDACTED]
 [REDACTED]
 [REDACTED]

I. Description of the Nature and Extent of the Institution's Adherence to the PHS Policy, the *Guide*, and the Animal Welfare Act (AWA)

Departures from the Public Health Service (PHS) Policy, the *Guide*, and the AWA. Select A or B:

- ☒ A. There were no new departures during this reporting period.
☐ B. The following departure has been reviewed and approved by the IACUC during this reporting period:

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

Animal Care and Use Program Review Date(s): 11/6/2019, six members

present.

Select A or B:

- ☒ A. There were no deficiencies in the program during this reporting period.
☐ B. The following deficiencies have been identified:

III. Deficiencies in the Institution's Animal Facility

Animal Facility Inspection Date(s):

Select A or B:

- ☐ A. There were no deficiencies in the animal facility during this reporting period.
☒ B. The following deficiencies have been identified:

See the last section of this report titled: Summary of CWC IACUC Semiannual Inspections.

IV. Minority Views

Select A or B:

- ☒ A. No minority views were submitted or expressed.
☐ B. The following minority views were expressed:

V. Status of AAALAC Accreditation

All of the OHSU Central and Waterfront Campus animal care and use program and animal facilities remain accredited by AAALAC International.

Summary of CWC IACUC Semiannual Facility Inspections

On the dates listed below, eighteen committee members (including alternates, when applicable) conducted inspections of locations within OHSU's CWC animal facilities, including satellite facilities. Laboratory locations where live animals are used were also inspected.

A total of 492 rooms in animal facilities and laboratories where live animals are used or housed were inspected.

Building	Date (s) of inspection	Number of rooms/labs inspected
	Sep 24;	3
	Aug 6, 20; Nov 26	14
	July 23; Oct 8; Nov 26;	6
	Nov 7	3
	Oct 21;	4
	July 1, 23; Aug 6, 20; Nov 18	37
	Nov 14,	51
	Nov 19	3
	July 1, 9, 23, 30; Aug 06, 13, 20; Sep 17, 19, 24; Nov 07, 12, 19	114
	Oct 22;	3
	July 9, 23; Aug 13, 20; Sep 03, 24; Oct 7, 8, 15; Nov 12, 19;	121
	July 30; Sep 10, 20; Oct 8, 15, 22; Nov 12, 13, 26;	81
	Nov 14, 26	16
	Nov 07;	8
	July 9; Sep 03, 17; Nov 05, 07, 19, 26	28

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SIGNIFICANT DEFICIENCIES: *None identified*

MINOR DEFICIENCIES: *Listed below.*

Cage Cards

- Found: Cage cards not current, or not completed
- Plan: Update cage cards to assure that a protocol number and laboratory contact information are included for all cards. Ensure special needs/tasks properly marked.
- Reference: "Identification cards (cage cards) should include the source of the animal, the strain or stock, names and contact information for the responsible investigator(s), pertinent dates (e.g., arrival date, birth date, etc.), and protocol number when applicable." Guide, p. 75.

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191126	PI	m	20191211 20191226	20191211

Cage Cleaning/Room Record Keeping

- Found: Cages, chambers not clean, or inadequate documentation of cage care by PI in DCM rooms or in lab. Documentation of room maintenance not recorded.
- Plan: Ensure timely cleaning schedule of cages, equipment or chambers to provide a healthy environment for an animal. Document animal cage cleaning and observations per IACUC policy/DCM SOP/IACUC protocol.
- Reference: "The goal of any sanitation program is to maintain sufficiently clean and dry bedding, adequate air quality, and clean cage surfaces and accessories." Guide p69
"Whenever possible, routine procedures for maintaining animal should be documented to ensure consistency of management and care." Guide p52

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191113	PI	m	20191209 20191223	20200103
		20191204	DCM	m	20191204	20191204

Cleaning

- Found: Area(s) dirty. Countertops, floors, work surfaces, walls with visible dirt or debris, clutter on floor, work areas, mops not hung up, equipment soiled, dirty animal housing.
- Plan: Mop, sweep floors, wiped down all work surfaces. Promptly remove or store items when not in use.

Reference: "Cleaning and Disinfection of the Macroenvironment All components of the animal facility, including animal rooms and support spaces (e.g., storage areas, ...-washing facilities, corridors, and procedure rooms) should be regularly cleaned and disinfected as appropriate to the circumstances and at a frequency based on the use of the area and the nature of likely contamination" Guide, p. 72.

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
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	20191112	PI	m	20191212 20191227	20191212
	20191107	DCM	m	20191203 20191220	20191202
	20191113	PI	m	20191209 20191223	20191209
	20191113	PI	m	20191209 20191223	20191213
	20191113	PI	m	20191209 20200124	20200122
	20191119	PI	m	20200103 20200117	20200103
	20191119	DCM	R-m	20191203 20191220	20191212
	20191119	DCM	m	20191203 20191220	20191213
	20191119	DCM	m	20191203 20191220	20191204
	20191126	PI	m	20191211 20191226	20191219

Certification of Equipment /vaporizer, hood

- Found: Fume hood has outdated certification, Isoflurane Vaporizer has outdated certification, F-air canisters have no recorded weights, F-air canister is able to properly vent.
- Plan: Schedule hood or vaporizer certification, discard or replace F/air canisters, implement proper installation and recording of canister use. Please place Do not use on vaporizer until it is calibrated/tested.
- Reference: "Safety equipment should be properly maintained and its function periodically validated. Appropriate methods should be used for assessing and monitoring exposure to potentially hazardous biologic, chemical, and physical agents where required (e.g., ionizing radiation) or where the possibility of exceeding permissible exposure limits exists (CFR 1984b)." Guide, p.20

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191021	PI	m	20191021 20191104	20191107
		20191112	PI	m	20191205 20191219	20191217
		20190909	PI	m	20190909 20190923	20190920

Expired Drugs

- Found: Expired Drugs
- Plan: Discard expired drugs or mark as "expired" and store separately from in-date

drugs/materials. Do not use expired anesthesia

- Reference: "Agents that provide anesthesia and analgesia must be used before their expiration date and should be acquired, stored and their use recorded, and disposed of legally and safely." Guide, p. 122

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191112	PI	R-m	20191212 20191227	20191212
		20191112	DCM	m	20191112	20191112
		20191119	PI	m	20191211 20191226	20191211
		20191119	DCM	m	20191203 20191220	20191210
		20191204	PI	m	20191211 20191226	20191212
		20191112	PI	m	20191205 20200116	20200117

Expired Materials

- Found: Expired materials or supplies
- Plan: Discard expired materials or supplies or mark as "expired" and store separately from in-date drugs/materials. Do not use expired anesthesia
- Reference: "Agents that provide anesthesia and analgesia must be used before their expiration date and should be acquired, stored and their use recorded, and disposed of legally and safely." Guide, p. 122

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191126	PI	3R-m	20191211 20191226	20191212
		20191204	DCM	m	20191204	20191204

Food

- Found: Food out of date, mill date not listed/documented, unlabeled food/treats.
- Plan: Discard any out of date and unwrapped (open) "bricks" of specialized animal diet or feed. Ensure labels and dates are on water bottles. Ensure drinking bottles/sipper tubes are clean and properly installed.
- Reference: "The user should know the date of manufacture and other factors that affect the food's shelf life. Stale food or food transported and stored inappropriately can become deficient in nutrients." Guide p. 66;
"Watering devices, such as drinking tubes and automated water delivery systems, should be checked frequently to ensure appropriate maintenance, cleanliness, and operation." Guide p68.

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191112	PI	m	20191212 20191227	20191212
		20191113	PI	m	20191113	20191113
		20191113	PI	m	20191209 20191223	20191209
		20191113	PI	m	20191113	20191113
		20191204	PI	m	20191211 20191226	20191205

Housing Density

- Found: Rodent(s) appear large for shoebox, number of animals in shoebox appear to exceed housing policy.
- Plan: Clarify rodent housing meets IACUC Mouse Housing Density requirements or update protocol if nonstandard housing necessary. Separate animals into different or larger housing.
- Reference: "At a minimum, animals must have enough space to express their natural postures and postural adjustments..." Guide p 56. Table 3.2.

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191107	PI	m	20191205 20191219	20191108
		20191107	PI	m	20200108 20200122	20191110
		20191112	DCM	m	20191203 20191220	20191213
		20191112	DCM	m	20191203 20191220	20191213
		20191119	PI	m	20191210 20191224	20191221
		20191119	PI	m	20191210 20191224	20191212
		20191119	PI	R-m	20191210 20191224	20191210
		20191119	PI	m	20191211 20191226	20191211
		20191119	PI	m	20191211 20191226	20191226
		20191119	PI	m	20191211 20191226	20191222
		20191126	PI	m	20191211 20191226	20191212

Labeling of Drugs and Materials

- Found: containers, vials, and squirt bottles, jugs, not properly labeled.
- Plan: Label bottle(s)/container(s) with contents, date solution made, expiration date (if applicable).
- Reference: "Drug records and storage procedures should be reviewed during facility inspections." Guide, p. 115

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191112	PI	m	20191205 20191219	20191217
		20191112	PI	m	20191212 20191227	20191212
		20191107	PI	m	20200123 20200207	20200123
		20191113	PI	m	20191209 20191223	20191209
		20191113	DCM	m	20191203 20191220	20191210
		20191112	PI	m	20191209 20191223	20200106
		20191119	PI	m	20191210 20191224	20191212
		20191120	DCM	m	20191120	20191120
		20191120	DCM	m	20191120	20191120

Occupational Health & Safety: Physical Hazards

- Found: Gas tanks (H) additional strap for securing to wall, no eye flush station documentation, F/Air canisters not properly installed or use documented, overfilled sharps containers, X-ray equipment out of date, hazard agent signage not installed.
- Plan: Ensure work order in place for tank straps, properly document eye wash station, F/air canister monitoring, post certificate, and hazard signs.
- Reference: "Other potential hazards - such as....wet floors, cage washers and other equipment, lifting, latter use...- that are inherent in or intrinsic to animal use should be identified and evaluated." Guide, p. 18

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191113	DCM	m	20191203 20191220	20191213
		20191113	PI	m	20191209 20191223	20191210
		20191113	PI	m	20191113	20191113
		20191114	PI	m	20191210 20191224	20191220
		20191114	PI	m	20191210 20191224	20191220

	20191119	DCM	m	20191203 20191220	20191213
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Personnel Protective Equipment (PPE)

- Found: Personal Protective Equipment (PPE) lab coat and other PPE not worn in animal room.
- Plan: For well-being ensure proper PPE worn in animal rooms per IACUC Policy.
- Reference: "Entry into conventional rodent holding rooms and contact with caging or accessory equipment." PPE "Scrubs or street clothes covered with lab coat or surgical/disposable gown; exam gloves" OHSU IACUC Policy : Requirements for Personnel ID and Protective Clothing

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191113	PI	m	20191210 20191224	20191210

Social Housing (Non-USDA Rodents)

- Found: Social animals were single housed without proper identification or environmental enrichment.
- Plan: Modify the IACUC protocol to include a description (justification) of single housing for animals. Ensure all single housing stickers area completed and list current date. Single housed animals have proper enrichment unless approved in IACUC protocol.
- Reference: "Well-conceived enrichment provides animals with choices and a degree of control over their environment, which allows them to better cope with environmental stressors..." Guide p53. "Housing should provide for the animals' health and well-being while being consistent with the intended objectives of animal use." Pg52

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191112	PI	m	20191204 20191219	20191206
		20191112	PI	m	20191205 20191219	20191219
		20191113	PI	m	20191209 20191223	20200103
		20191112	PI	m	20191209 20191223	20191210
		20191112	PI	m	20191210 20200117	20200114
		20191112	PI	m	20191210 20191224	20191212
		20191112	PI	R-m	20191210 20191224	20191224
		20191119	PI	m	20191211 20200108	20191217

	20191126	PI	m	20191211 20191226	20191226
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Personnel Training

- Found: Training records for entire staff were not readily available.
- Plan: Make (entire) staff training records readily available for IACUC review.
- Reference: "All personnel training must be documented and accessible in the laboratory or PRIME. Records must be made available to the IACUC or DCM as requested and during semiannual inspections." OHSU IACUC Policy
"All Program personnel training should be documented." Guide p.15.

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191112	PI	m	20191205 20200116	20200117

Unsanitizable Materials

- Found: Equipment or surfaces in animal room that are not smooth an impervious to moisture.
- Plan: Remove equipment or recover/seal so surface area is easily sanitizable and moisture-resistant.
- Reference: "...surfaces should be constructed of materials that are monolithic and impervious to moisture." Guide, p. 144, 145.
"Facility features applicable to all hazards include isolation of the animals and their waste, provision of sealed monolithic room surfaces that do not promote dust accumulation and are easy to sanitize...." Guide, P. 148-149

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191107	PI	m	20200108 20200122	20200109
		20191113	PI	m	20191209 20191223	20200107
		20191112	PI	m	20191209 20191223	20191216
		20191126	PI	m	20191211 20191226	20191219


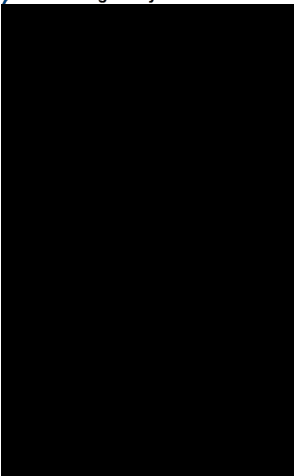







Signatures [*signatures of a majority of the IACUC members required by AWAR (§2.31,c,3), if applicable*]

Names of IACUC Members	Signature:
	
	
	
	
	
	
	

Central & Waterfront IACUC
Semiannual Facility Inspections and Program Review

Signatures were obtained through electronic transmission due to constraints presented by COVID-19. Signature dates may vary and do not reflect the date of approval voted at a convened, virtual meeting of the IACUC.

Signatures [*signatures of a majority of the IACUC members required by AWAR (§2.31,c,3), if applicable*]

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Alternates

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

DocuSigned by:

[REDACTED]

* These signatures (of alternates) contributed to quorum. All other signatures are alternates who did not contribute to quorum.

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