**Memorandum to:** Sally Thompson-Iritani

**From:** Institutional Animal Care and Use Committee

**Subject:** Semiannual Report of the Program Review and Facility Inspection

**Date:** January 25, 2024

This report summarizes results of the IACUC's 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.):

The DCM-managed vivarium in the Center on Human Development and Disability (CHDD) was decommissioned in fall 2023.

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

All animal care and use at the University of Washington adheres to PHS Policy, the Guide, and the AWA, as described in our Assurance. Within that framework, the IACUC has approved the following departures from PHS Policy, the AWA, and the Guide:

- 8 protocols with housing at non-standard temperatures (6 mice, 1 rats, 2 zebrafish)
- 14 protocols with cage size variances (13 mice and/or rats, 1 non-human primates)
- 12 protocols with wire bottom cages (11 mice and/or rats, 1 rats and gerbils)
- 14 protocols with food provided on the floor (12 mice, 2 rats)

## One new general departure was approved by the IACUC during the reporting period:

- 1 general cage dimension exception for non-human primates

#### The following IACUC approved general departures remain in place:

- 1 general cage height exception for infant non-human primates
- 2 general cage dimension exceptions for non-human primates
- 1 general exception for placing NHP feed on compound floors
- 1 general cage change frequency variance for singly housed gerbils
- 1 general exception for changing cage components in the Gnotobiotic Animal Core (GNAC) facility as needed

Details are included in Appendix C.

While not departures, the IACUC has also approved the following:

- 62 protocols with prolonged physical restraint (28 mice, 17 non-human primates, 7 birds, 5 fish, 2 dogs, 2 pigs, 1 bats)
- 44 protocols with weaning variances (43 mice, 1 rats)
- 6 protocols with a non-AVMA endorsed euthanasia method (2 birds, 2 frogs, 1 zebrafish, 1 wild rats)
- 59 protocols with multiple major survival surgeries (21 non-human primates, 12 rats, 10 mice, 8 mice and rats, 4 pigs, 1 birds, 1 fish, 1 frogs, 1 rabbits)
- 10 protocols with other IACUC policy variances (7 mice, 2 mice and rats, 1 rabbits)

Details of these can be reviewed via reports in HoverBoard.

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

Animal Care and Use Program Review Date(s): July through December 2023

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

Over the past six months, 13 adverse events or non-compliances were reported to the IACUC and, as required, to OLAW, AAALAC, or USDA. See <u>Appendix A</u> for details.

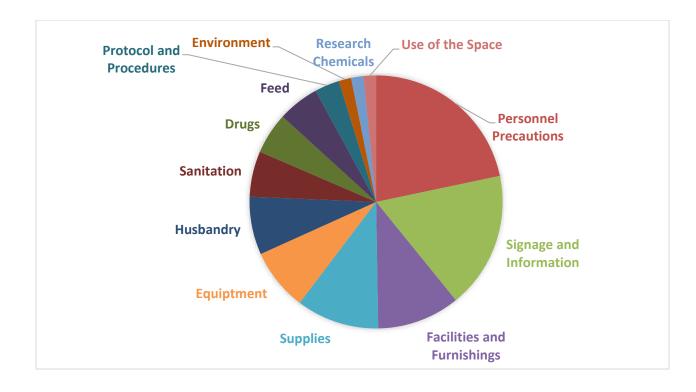
Teams of IACUC members recently reviewed all elements of the University's animal care and use program, guided by the OLAW-provided checklist. All elements of the program were found to be acceptable, no deficiencies were identified. Specific comments and suggestions for improvement are detailed in <u>Appendix D</u>. The IACUC and OAW will pursue the suggestions in the coming year.

## III. Deficiencies in the Institution's Animal Facility

Animal Facility Inspection Date(s): July through December 2023

- [] A. There were no deficiencies in the animal facility during this reporting period.
- [X] B. The following deficiencies have been identified

Over the past six months 190 deficiencies were identified during IACUC facility inspections or self-reported. None were considered significant. Percentage by type is shown in the chart below. See <u>Appendix B</u> for details.



## **IV.** Minority Views

Select A or B:  [X ] A. No minority views were submitted or expressed.  [ ] B. The following minority views were expressed:

## V. Status of AAALAC Accreditation

Reference Assurance: #000523

Most Recent AAALAC Site Visit: 06/22/2023 through 06/30/2023

Most Recent Full Accreditation issued: 11/20/2023

Most recent accreditation letter assured continued full accreditation, with a condition that must be addressed, specifically assurance that effective measures have been fully implemented to minimize the possible use of expired anesthetics, analgesics, and euthanasia drugs.

## VI. Signatures (via signed and dated note of concurrence – see attached images)

IACUC Members	concurrence	date
A.B.	Concur	01/25/2024
A.P.	Concur	01/30/2024
A.W.	Concur	01/25/2024
Christina Cruzen	Concur	01/26/2024
D.M.	Abstain	01/30/2024
G.L.	Concur	01/30/2024
G.S.	Concur	01/25/2024
G.W.	Concur	01/29/2024
J.F.I.	Concur	01/30/2024
J.P.V.H.	Concur	01/30/2024
Jane Sullivan	Concur	01/25/2024
J.T.	Concur	01/25/2024
K.G.	Concur	01/26/2024
M.B.	Concur	01/25/2024
M.K.	Concur	01/25/2024
M.R.B.	Concur	01/25/2024
M.R.K.	Concur	01/30/2024

Appendix A: Deficiencies in the Institution's Animal Care and Use Program - Reportable Events

Appendix	A: Defic	iencies in the Institution's Animal Care and Use Program	<ul> <li>Reportable</li> </ul>
Severity	Repeat?	Deficiency and Corrective Action Plan	<b>Date Complete</b>
Significant	No	Non-compliance: Use of expired analgesic On 1/9/23, 5 mice that underwent skin biopsy and UVB exposure received buprenorphine HCl that was labeled with an expiration date of 12/2022.  Reported to IACUC 7/27/2023  This incident is still under investigation.	In Process
Significant	No	Adverse Event: Mortality due to no access to food/gel	9/29/2023
Significant	No	On 4/10/23, two mice were found dead in their cage with no food or gel present. The animals were weaned by the research group three days prior.	3/23/2023
		Reported to IACUC 8/17/2023	
		Corrective actions:	
		<ul><li>1) The lab member and husbandry staff underwent retraining.</li><li>2) The lab has implemented a checklist for weaning mice.</li></ul>	
Significant	Yes	Non-compliance: Use of expired euthanasia solution	11/6/2023
		On 12/1/22 and 3/6/23, ~20 mice total were euthanized with	
		euthanasia solution that had expired in August 2022. The expired	
		euthanasia solution was identified by the IACUC during a 2/21/23	
		facility inspection. Note that the second date on which the expired	
		euthanasia solution was used (3/6/23) occurred after the facility	
		inspection. On 3/30/23, the group indicated they were in the process of	
		reverse distributing the solution, at which time OAW considered the	
		finding resolved. However, the expired bottle was still present during a	
		visit of the space on 6/27/23.	
		Reported to IACUC 7/27/2023	
		Corrective Actions:	
		1) OAW and the attending veterinarian discussed the significance of the situation with the PI.	
		2) The bottle was labeled as expired and reverse distributed.	
		3) The PI retrained lab members on management of controlled substances.	
		4) Expiration dates have been logged onto the PI's calendar, which will provide notifications 4 weeks prior to expiration.	
		5) The PI will immediately inform lab members of IACUC findings.	
Significant	No	Adverse Event: Malfunction of anesthetic equipment resulting in	9/1/2023
Significant	140	death On 6/26/23, a macaque died while under anesthesia performed by	37 17 2023
		Veterinary Services. Shortly after induction of injectable anesthesia, the	
		animal began to experience poor oxygenation and a rapid, irregular	
		heartbeat. A portable anesthesia machine was retrieved. Upon being	
		attached to the anesthesia machine the animal immediately stopped	
		breathing. A veterinarian was called, and the animal was taken to an	

area with a ventilator, but the animal went into cardiac arrest and could not be resuscitated. The portable anesthesia machine had not been previously used, and it did not initially have a breathing circuit attached. Due to the urgency of the situation, the technician leak-tested and pressure-tested the machine while someone retrieved a breathing circuit, which was then connected before attached to the animal. It was later discovered that the machine was not functioning properly with the attached type of circuit, resulting in elevated pressures rapidly developing within the tubing. The anesthesia machine had been serviced by a commercial vendor within the required timeframe.

#### Reported to IACUC 7/27/2023

#### Corrective Actions:

- 1) This machine has been removed from use and will be discarded.
- 2) Moving forward, leak and pressure checks will be performed with circuits attached.
- 3) Procedure spaces will be set up with emergency kits that include ambu bags and intubation supplies.
- 4) Any new or donated anesthesia machines will be fully evaluated by a veterinarian in addition to commercial vendor maintenance prior to use, and machines that are different from existing stock will require machine-specific training by all users prior to storage in any commonaccess storage area.

## Significant No

#### Adverse Event: Mice mortality due to no food

11/6/2023

On 7/3/23, a cage of two mice was found without food. One mouse died, and the second recovered with supportive care. Per the lab, the cage was moved off the SSR rack 3 days prior, and husbandry staff should have resumed feeding. This could not be confirmed.

## Reported to IACUC 8/17/2023

#### Corrective Actions:

- 1) Both the lab member and husbandry staff underwent retraining.
- 2) The lab implemented a system that indicates when mice are removed from the SSR, triggering supervisors to follow up with research technicians.
- 3) In collaboration with DCM staff, the group has devised a system to quickly identify cages that have recently been removed from SSR, including research technicians flagging cages with a unique blue strip of paper, and DCM staff prioritizing evaluation of flagged cages to confirm that food and water is provided before removing the blue flag.

## Significant No

# Non-compliance: Administration of unapproved dose resulting in mortality

12/22/2023

On 6/12/23, 20 mice were administered a higher-than-approved dose of PTZ, a drug used to induce seizures. 15 of the mice were in a control group, and they experienced expected behavioral seizures and were euthanized at planned endpoint that day. Five mice were in an experimental group that received phenytoin, which in combination with PTZ can act as a proconvulsant. Four of the five mice were found dead the following morning. The fifth mouse was stable but the group decided to euthanize the animal. It was determined that the bottle of

PTZ was mislabeled, resulting in mice receiving 1.5 times the intended dose.

#### Reported to IACUC 9/21/2023

#### **Correction Actions:**

- 1) Development of calculation quick reference guides.
- 2) Implementation of secondary check at the time of formulation.

### Significant No

## Non-compliance: Survival surgery not performed according to protocol

12/22/2023

On 7/27/23, during a surgery certification procedure on a mouse, the veterinarian observed several deviations from the approved protocol, including that local anesthesia was not administered as described in the protocol and the drill burr was sterilized by a hot bead sterilizer rather than autoclave. Upon investigation it was determined that 12 mice over the previous 3 months were impacted, with surgeries performed by 2 different surgeons.

#### Reported to IACUC 9/21/2023

#### **Corrective Actions:**

- 1) Experienced lab members will review the protocol with new trainees.
- 2) Performance will be cross-checked between experienced surgeons, and multiple experienced surgeons will be involved in training new personnel, so that any variation in performance is identified.
- 3) A checklist will be posted in the surgery area.
- 4) Any changes made to the protocol will be communicated via email and in-person at lab meetings.

## Significant

No

## Non-compliance: Unapproved surgery

12/22/2023

On 8/14/23, one pigtail macaque underwent surgery to replace a telemetry implant. The next day, it was discovered there was an error in the animal number on the surgery request form, and the telemetry repair was intended to be requested for a different animal on the project. The animal that underwent the surgery had already undergone a previous telemetry repair surgery on 8/2/23. The protocol is approved for only one telemetry replacement surgery for each animal.

#### Reported to IACUC 9/21/2023

#### Corrective Actions:

- 1) The Surgery Request website has been modified so that when an animal number is selected, all previous surgeries for that animal are displayed.
- 2) The veterinarian will review the surgical history when they enter the approval in the pre-surgery section of the Surgery Request website. If the request is for a surgery that is already in the animal's history, the veterinarian will check the protocol to verify compliance.
- 3) If a member of the surgery/anesthesia team notices previous surgical scars while prepping the animal for surgery, they will check with the Research Support technician or the protocol to verify compliance.

Significant	No	Non-compliance: Use of expired euthanasia solution  During an IACUC inspection on 8/9/23, the IACUC inspectors found several bottles of expired euthanasia solution inside the locked drug box. Upon checking the drug log, it was noted that 1.0mL of euthanasia solution was used on 7/26/23, from a bottle that expired on 6/23/23.  10 mice had received the expired euthanasia solution. The drug log is tracked by bottle, and the expiration date of the bottle is indicated at the top of the drug log sheet, but this was overlooked by the lab member who retrieved and logged the drug.  Reported to IACUC 9/21/2023  Corrective Actions:  1) Adding a drug expiration column to the drug log to require that users write down the expiration date.  2) All users have been updated on change to drug log.  3) Expired lots of euthanasia drugs have been properly reverse distributed.	12/22/2023
Significant	No	Adverse Event: System malfunction resulting in mortality On 8/15/23 at Western Fisheries Research Center (WFRC), immediately following a routine system backflush, mortality of one adult zebrafish was noted and several other zebrafish were noted to be swimming erratically. Water quality parameters were immediately tested, and oversaturation was noted. Supplemental air stones were added to the tanks and flow rates were modified. Empty tanks were also added to the system with higher flow rate to help clear the system. All fish were observed frequently overnight until all parameters normalized the following day. There were ~1000 fish in the system at this time, and a total of 7 mortalities were recorded, including 3 fish that were humanely euthanized. Upon inspection of the system, a small crack was noted in a section of tubing that supplies air to the sump pump.  Reported to the IACUC 9/21/2023  Corrective Actions:  1) The identified crack was immediately repaired.  2) The standard backflush procedure has been modified to include a one-hour period where water is run only to an empty tank (with water parameters monitored).  3) The UW Attending Veterinarian was promptly notified of the event by the WFRC AV and consulted with UW's aquatic specialist, who concurred with WFRC's response to this supersaturation event.	10/13/2023
Minor	No	Adverse Event: HVAC malfunction led to out of range temperatures in BSL3 facility  On 7/4/23 the two chillers that control HVAC temps in the BSL3 vivarium malfunctioned. The room temps alarmed and the chiller malfunction alarmed, however the reporting guide to infocenter were mislabeled as standard rooms (nonemergency call out) and the engineers were not dispatched right away to fix it. The facility supervisor called the infocenter, but the infocenter operator mistakenly told her the engineers had been called. This error was not identified until the next morning. Overnight the housing room rose to 81.6 at its	12/22/2023
Comionnual Don		January 2024	

highest (per The Guide, mouse rooms should be maintained with dry bulb temperatures of 68-79 F). This sensor is located in the ducts so the animals likely did not experience temperatures this high, and there were no sick animals reported.

Reported to the IACUC 8/17/2023

#### **Corrective Actions:**

- 1) The chillers were repaired on 7/5/23.
- 2) The call tree designation has been updated to prevent future issues.

### Significant No

Adverse Event: Lights in NHP rooms remained on overnight On 9/26/23, the lights in 5 nonhuman primate rooms did not turn off when scheduled and remained on all night. The animals were assessed by a veterinarian the following morning and there were no health concerns noted. These animal rooms do have light alarms, but these alarms did not go off. This may have been due to an ongoing transition between environmental monitoring systems. The night staff member assigned to verify light levels visually noted the room lights to be on after the designated dark phase and attempted to turn off the lights manually but the switch did not work. Appropriate contacts were made, including to primate center management and facility operations staff. Facility operations staff attempted to override the system to turn off the lights but were unable to turn them off. The following day, additional expertise was sought and a mechanism for overriding the system was established. Animal program leadership continue to work with the company responsible for the system transition, but lights are not automatically turning on and off consistently as designed.

Reported to the IACUC 10/19/2023

Pending response from OLAW to final report.

#### Corrective Actions:

1) Staff are manually verifying lights in all animals rooms every morning and every night and facility operations are intervening with overrides as needed. 2) Continue to work with company to identify resolution.

#### Significant

No

#### Non-compliance: Unapproved euthanasia method

On 9/25/23, 20 mice were euthanized with a method that was not approved on the IACUC protocol. The method, ketamine/xylazine followed by exsanguination, is an AVMA-approved method of euthanasia. The procedures were performed by an individual acting in the role of a core service, specifically the Nutrition Obesity Research Core (or NORC), which investigators can hire to perform some specific in vivo procedures related to energy balance. An individual from the research group was also present.

Reported to the IACUC 11/16/2023

Pending report to the IACUC of PI and core director responses, and final report to OLAW.

In Process

In Process

Semiannual Report January 2024 8

## **Appendix B: Deficiencies in the Institution's Animal Facility**

Table B.1 Animal Facility Deficiencies over the Previous Four Reporting Periods by Deficiency Type

	2022 January -	2022 July -	2023 January -	2023 July -
Deficiency Type	June	December	June	December
Personnel Precautions	19	15	34	41
Signage and Information	16	39	20	33
Facility and Furnishings	30	21	56	20
Supplies	6	4	27	20
Equipment	12	13	13	15
Husbandry	1	8	24	14
Sanitation	7	10	41	11
Feed	0	3	15	10
Drugs	11	10	18	10
Protocol/Procedures	5	5	6	6
Environment	1	0	4	3
Use of Space	0	1	1	3
Research Chemicals	12	11	5	3
Animal Health	0	0	5	1
Total	120	140	269	190

Table B.2 Deficiencies by Generalized Facility

Generalized Facility	Count
DCM HR&T Vivarium	15
DCM Main Campus Vivaria	33
DCM SLU Vivaria	21
Friday Harbor Labs	8
HR&T Lab-Managed Spaces	8
Main Campus Lab-Managed Spaces	66
SLU Lab-managed Spaces	22
NOAA	1
USGS	1
WaNPRC Vivaria	12
WaNPRC Lab-Managed Spaces	3
Total	190

Table B.3 Deficiencies Details

Severit	v Reneat	? Location	Room	Deficiency and Corrective Action Plan	Date Identified	Correction Due Date	Date Complete
Severit	yrtepeat	DCM Foege	ROOM	Sendency and corrective Action Flan	lacitimea	Duc Dute	complete
Minor	no	Vivarium	N039A	Unlabeled EtOH and formalin jars. Please label properly.	7/7/2023	8/11/2023	8/11/2023
				Dead animal cards from 5/11/23 and 6/20/23 on Bruchas lab			
				cages. Curious how often the lab is down there working with			
		DCM Foege		these mice and who is supposed to be removing dead animal			
Minor	no	Vivarium	N043	cards. Please remove.	7/7/2023	8/11/2023	7/28/2023
				There are several jars of formalin containing mouse lungs labeled	ł		
				from euthanasias between 2/16-2/24/2020. The only identifier			
		DCM Foege		on there was "Iritani." Can we please figure out who	_ /_ /	- 1 - 1	- / - /
Minor	no	Vivarium	N039A	needs/wants these tissues and if not dispose of them properly?	7/7/2023	8/11/2023	8/11/2023
B. 4.		DCM Foege	NO 42	Expired or inaccurately labeled vial of ethanol, labelled "07/10"	7/7/2022	0/44/2022	7/40/2022
Minor	no	Vivarium	N043	in a box marked "Stuber lab." Please dispose of or properly label.	. ////2023	8/11/2023	//19/2023
Minor		Гасса	NI 4 4 F A	Water has spilled over and damaged the boxes. Recommend	7/10/2022	0/11/2022	7/17/2022
Minor	no	Foege	N415A	moving the boxes to a safe a dry location.		8/11/2023	//1//2023
				Eyewash has not been tested since April 2023. Please check once			
Minor	no	Foege	N415A	a week and let it run for approximately one minute to clear the lines	7/10/2023	8/11/2023	7/17/2023
Minor	no	Foege	N423D	Eyewash check log out of date. Please test and log.	7/10/2023	8/11/2023	<del>,                                    </del>
	110	. 0080	111200	Brotman 225 (Disis): Group needs to develop and post a	77 207 2020	0/11/2020	,,23,2023
				Contingency Plan for what to do with animals brought to this			
				space in the event of an emergency. Please have the group's			
				liaison Kelly H contact host Erin Rodmaker to provide some			
				guidance on what should be included in the brief contingency			
Minor	no	Brotman	Brot. 225	plan.	7/13/2023	8/14/2023	7/19/2023
		DCM Health					
		Sciences K-Wing					
Minor	no	Vivarium	K018G	Smelly room - please check on ventilation	7/24/2023	9/15/2023	8/28/2023
		DCM Health					
		Sciences K-Wing	,		= 10 4 10 00 0	0 /4 = /	0 10 0 15 5 5 5
Minor	no	Vivarium	K007C	Smells bad, ventilation issues. Please check with facilities.	//24/2023	9/15/2023	8/28/2023
		DCM Health					
D. 4:		Sciences K-Wing		Fundand Mandley Internal	7/24/2022	0/4/2022	7/24/2022
Minor	no	Vivarium	K024B	Expired Needles - please discard	7/24/2023	9/1/2023	7/31/2023

Really dirty behavior equipment. Caked on. Group needs to follow their approved sanitation protocol. Expired Clidox. DCM Health Sciences K-Wing Toss Clidox that is expired and follow cleaning/sanitation Vivarium K018A & B protocols. 7/24/2023 7/31/2023 Minor no DCM Health Sciences K-Wing 50 mL vial of "mouse treats" in hood with no expiration date Vivarium 1015M noted. 7/24/2023 8/31/2023 7/24/2023 Minor no DCM Health Sciences K-Wing Vivarium 1012F Surgical Heating pads should be taken out of use 7/24/2023 8/31/2023 8/4/2023 Minor no 1 box of expired surgical knives/blades - 11/2014 date 1 box of expired 4/0 sutures - 7/31/2021 2 boxes of expired surgical blades - 5/2012. All expired supplies labeled "expired" by inspector and left for group to manage in DCM Health the space. Sciences K-Wing Vivarium K024E Please dispose of all items. 7/24/2023 8/31/2023 8/4/2023 Minor no DCM Health Sciences K-Wing K024E No contingency plan in place. Please draft and post. 7/24/2023 9/1/2023 7/31/2023 Minor no Vivarium DCM Health Styrofoam Lid with Needles inserted and what appears to be lots Sciences K-Wing of blood or dye staining this box. This should be tossed. Minor no Vivarium K030 7/24/2023 9/1/2023 8/9/2023 The room is used for weekend NHP recordings but there is one window open to public view. Please work with facilities to have blinds installed and repaired in this space. Zak will submit work **Health Sciences** B309 order to have facilities install blinds. 7/24/2023 9/22/2023 9/18/2023 Minor no Building Harborview Research & B004 Need secondary chain on all CO2 cylinders-fixed during visit 7/26/2023 9/1/2023 8/1/2023 Minor no Training DCM Harborview Research & Three rat cages with singly housed animals with only one piece Training of enrichment present (1 Nylabone). Need at least two forms for SB027 singly housed rats per DCM SOP and IACUC policy. Minor no Vivarium 7/26/2023 9/8/2023 7/12/2023

		DCM Harborview Research &					
		Training		Large containers with loose hay inside. No labeling. Needs to be			
Minor	no	Vivarium	SB044A	emptied and cleaned.	7/26/2023	9/8/2023	7/10/2023
	110	vivariani	320 1 11 1	SB044B: Rabbit Housing	772072020	3/0/2020	771072020
				1. Enrichment log includes music that is played for at least 4			
				hours/day. The log contained the time music was started, but			
				not when the music was turned off (so it is unclear if the music			
		DCM		was played for the required amount of time). Please be sure that			
		Harborview		all data is entered on the enrichment log.			
		Research &		2. Music is played-can we get them tested to make sure the			
		Training		volume is appropriate? Host didn't know how loud music was			
Minor	no	Vivarium	SB044A	supposed to be played at.	7/26/2023	9/15/2023	7/10/2023
				Guillotine used for rat euthanasia did not have a maintenance			
				log. The equipment appears to be in good working order (lab is			
				newer so equipment has not been in use that long). Please			
		Harborview		create a log to document servicing and store it in close proximity			
D 41		Research &	D04.6	to this piece of equipment. (Note: When used for rats, generally,	7/26/2022	0/0/2022	0/22/2022
Minor	no	Training	B016	sharpening is required every 15-20 animals).	7/26/2023	9/8/2023	8/23/2023
		DCM					
		Harborview Research &					
		Training					
Minor	no	Vivarium	SB035	Opened gel with no open or expiration date. Please label.	7/26/2023	9/1/2023	7/10/2023
		DCM		open are general and a series a	.,,		1, 20, 2020
		Harborview					
		Research &		Food Storage - Expired hay. There was a sign that said hay is			
		Training		good for three months-this batch had an expiration date of			
Minor	no	Vivarium	SB060	20July2023. Please discard.	7/26/2023	9/1/2023	7/4/2023
		Harborview		Unlabeled solution in beaker. This turned out to be a protein			
		Research &		enzyme but needs to be labeled and note an open and expiration	1		
Minor	no	Training	B004	date.	7/26/2023	9/1/2023	8/1/2023
		DCM					
		Harborview					
		Research &					
		Training			= 10.0 10.00	0 14 15	0/4/0555
Minor	no	Vivarium	SB015	Bare post-it note was placed on rack H19. Needs to be in plastic	7/26/2023	9/1/2023	8/1/2023

		DCM					
		Harborview					
		Research &					
		Training		Open gel with no open date or expiration date. Please ensure			
Minor	no	Vivarium	SB027	that all secondary containers are appropriately labelled.	7/26/2023	9/1/2023	7/19/2023
		Harborview		Eyewash not being checked. There is no drain or sink under their			
		Research &		eyewash-this makes it difficult to test. Last testing was in March.			
Minor	no	Training	B016	Eyewashes must be checked weekly.	7/26/2023	9/4/2023	8/23/2023
				Iso machine is out of compliance. Needs servicing.			
		DCM		Please place a sign on the machine to indicate that it should not			
		Harborview		be used until serviced. Unclear which lab this piece of equipment			
		Research &		belongs to. This is a repeat deficiency (noted on the last three			
		Training		site visits) and needs to be corrected and/or escalated to the			
Minor	no	Vivarium	SB056	IACUC for further action.	7/26/2023	9/27/2023	8/1/2023
		Harborview					
		Research &		Expired blood tubes-need to be labeled "Not For Use In Live			
Minor	no	Training	B004	Animals"	7/26/2023	9/1/2023	8/1/2023
		Harborview		Found a vial of MK-801 in a decommissioned refrigerator. No			
		Research &		received or expiration date on the label. No one knew where the			
Minor	no	Training	B016	item came from or who it belonged to. Please discard.	7/26/2023	9/4/2023	8/23/2023
		DCM					
		Harborview		Del Zoppo had a cracked induction chamber, making it difficult to	)		
		Research &		properly clean and an occupational health risk. Please			
		Training		discontinue use of this piece of equipment, and replace with an			
Minor	no	Vivarium	SB011	induction chamber in good repair.	7/26/2023	9/15/2023	8/30/2023
		DCM					
		Harborview					
		Research &					
		Training					
Minor	no	Vivarium	SB056	Loose papers out, please encase in plastic sleeve	7/26/2023	9/1/2023	8/1/2023
		DCM					
		Harborview					
		Research &					
		Training					
Minor	no	Vivarium	SB035	Loose paper. Please put in plastic sleeve.	7/26/2023	9/1/2023	8/1/2023

		DCM					
		Harborview		No secondary chain on CO2 cylinder on hand cart, and no			
		Research &		secondary chain on 3 small oxygen cylinders-safety hazard.			
		Training		Please add a second chain or consult with EH&S to ensure these			
Minor	no	Vivarium	SB056	are stored safely.	7/26/2023	9/15/2023	8/1/2023
		DCM					
		Harborview		SB044A ABSL2 Rabbit Procedure Space			
		Research &					
		Training		Bare paper on wall-T. Pallidum exposure response. Important			
Minor	no	Vivarium	SB044A	document that needs to be in plastic.	7/26/2023	9/1/2023	8/2/2023
				SB007 – Multi User Procedure Room			
				There was no room log present for this week. Please be sure			
				that all routine tasks are completed and documented			
				appropriately.			
		DCM					
		Harborview		SB007 Hallway			
		Research &		Daily and weekly tasks for week of July 17th not completed.			
		Training		Please ensure that all routine tasks are completed and work is			
Minor	no	Vivarium	SB007	documented appropriately.	7/26/2023	9/8/2023	8/1/2023
				Buprenorphine (Simbadol) present was a multi-dose vial. Lab			
				currently uses the solution until the vial's expiration date, which			
				may be beyond the manufacturer's recommendation of			
				discarding 56 days after first puncture. The bottle was not			
				labeled with a date of first puncture or discard date.			
		Harborview					
		Research &		*Please label bottle with this information and ensure that the			
Minor	no	Training	B004	solution is discarded per manufacturer's recommendations.	7/26/2023	9/1/2023	9/1/2023
		Harborview		Daily room cleaning log not filled out since March-the room has			
		Research &		been in use since then. Please be sure that the room is cleaned			
Minor	no	Training	B016	and that cleaning documented per lab SOP.	7/26/2023	9/4/2023	8/23/2023
		DCM					
		Harborview					
		Research &					
		Training					
Minor	no	Vivarium	SB015	Cage cards missing emergency contact. Please fill out properly.	7/26/2023	9/1/2023	8/2/2023
				Sucrose pellets remain in food hoppers of several testing			
				chambers. Be sure to label the hoppers with the current date			
		DCM 6th Floor		and the expiration date of the sucrose pellets when you put			
Minor	no	Vivarium	C618	them in	7/27/2023	9/6/2023	8/2/2023
Somian	nual Por	ort		January 2024			1./

		DCM 6th Floor		Exposed Sticky Surfaces - Testing equipment in Cubicle 2 uses a lot of tape that is coming loose and exposing the sticky surface to potential contaminants. All of this older tape needs to be replaced with fresh sanitizable (plasticized) tape (i.e. the common type of plasticized lab tape that is being used now in most places). There should be NO exposed sticky surfaces. Consider using zip ties and magnets in place of tape (in general,			
Minor	no	Vivarium	C608	tape use should be minimized).	7/27/2023	9/8/2023	9/8/2023
Minor	no	DCM 6th Floor Vivarium	C608	Sucrose pellets remain in food hoppers of several testing chambers. Be sure to label the hoppers with the current date and the expiration date of the sucrose pellets when you put the pellets in.	7/27/2023	9/8/2023	9/8/2023
	-			Bare Paper Signage. Lots of paper towels and some bare paper	, ,		
		DCM 6th Floor		being used for signage. Any paper signage must be laminated or			
Minor	no	Vivarium	C618	encased in a plastic sleeve.	7/27/2023	9/6/2023	8/2/2023
14111101	110	vivariani	6010	Bare Paper Signage. Cubicle 3 houses testing cabinets identified	1/21/2025	3/0/2023	0/2/2023
		DCM 6th Floor		by bare paper Post-It notes. All paper signage needs to be			
Minor	no	Vivarium	C613	laminated or put in a plastic sleeve.	7/27/2023	9/6/2023	8/7/2023
IVIIIIOI	110	Vivariani		Sticky Surfaces. Testing chambers use a lot of tape that is	1/21/2023	3/0/2023	0/1/2023
				coming loose and exposing the sticky surface to potential			
				contaminants. All of this older tape needs to be replaced with			
				fresh sanitizable (plasticized) tape (i.e. the common type of			
				plasticized lab tape that is being used now in most places). There			
				should be NO exposed sticky surfaces. Consider using zip ties and			
		DCM 6th Floor		magnets in place of tape (in general, tape use should be			
Minor	no	Vivarium	C618	minimized).	7/27/2023	9/8/2023	8/2/2023
	1.0	DCM SLU 3.1 0	5020		.   2.   2025	3,0,2023	0,2,2020
Minor	no	Level Vivarium	E078	No dates on autoclave tape. Please date.	8/4/2023	9/8/2023	8/7/2023
				In cabinet, several expired syringes 2021/01 and needles (mixed	0, 1, 2020	5, 5, 2025	0,,,2020
		DCM SLU 3.1 0		w nonexpired needles in a box). Please dispose of expired			
Minor	no	Level Vivarium	E063	syringes.	8/4/2023	9/8/2023	8/7/2023
	.10	DCM SLU 3.1 0	2000	51Bes.	0, 1, 2023	5,0,2025	0,7,2025
Minor	no	Level Vivarium	E45A	Chair needs to be replaced or discarded.	8/4/2023	9/8/2023	8/7/2023
	.,,	DCM SLU 3.1 0	,	Bin (Stetson lab) has a container of petroleum jelly expired	0, 1, 2020	5, 6, 2020	0,7,2020
Minor	no	Level Vivarium	E079	10/2021. Please dispose of.	8/4/2023	9/8/2023	8/7/2023
	110	DCM SLU 3.1 0	2075	Rattling noise in air exchange. Please work with facilities to get	0/ 4/ 2023	3,0,2023	0,7,2023
Minor	no	Level Vivarium	E0/13	this checked out.	8/4/2023	9/8/2023	8/8/2023
IVIIIIUI	110	LEVEL VIVALIUIII	LU43	tiiis thetaeu out.	0/4/2023	3/0/2023	0/0/2023

				Logs on BSC out of date. Two BCS monthly logs have a last			
Minor	20	DCM SLU 3.1 0 Level Vivarium	F079	cleaned date 6/22. Please clean and follow cleaning policy and	0/4/2022	0/0/2022	0/7/2022
Minor	no		E078	update logs.	8/4/2023	9/8/2023	8/7/2023
D 41		DCM SLU 3.1 0	5004	Eyewash last checked 7/17 - please ensure eyewash is checked	0/4/2022	0 /0 /2022	0 /7 /2022
Minor	no	Level Vivarium	E084	and logged weekly	8/4/2023	9/8/2023	8/7/2023
				Container of Napa Nectar - label indicates expires 2yrs from			
				3/31/21. Label was not updated, a packet of napa nectar inside is	5		
				stamped with an expiration date of 2025. There was a sealed jar			
				with an opened pack inside, not dated. Host says the turnaround			
		D C		time for an opened pack is short, within a day. Please dispose of			
D 4.		DCM SLU 3.1 0	5003	expired product and ensure products are labeled with "use by"	0/4/2022	0 /0 /2022	0/7/2022
Minor	no	Level Vivarium	E083	dates.	8/4/2023	9/8/2023	8/7/2023
D 41		DCM SLU 3.1 0	5044		0/4/2022	0/0/2022	0 /7 /2022
Minor	no	Level Vivarium	E044	Chair needs to be replaced	8/4/2023	9/8/2023	8/7/2023
D 4.		DCM SLU 3.1 0	F000F	Calling Brown and accounts	0/4/2022	0/22/2022	0/0/2022
Minor	no	Level Vivarium	E088E	Ceiling Damage, please repair.	8/4/2023	9/22/2023	8/8/2023
		DCM SLU 3.1 0	50005		0/4/0000	0/0/0000	0 10 10000
Minor	no	Level Vivarium	E088D	CO2 Tank with only one chain. Please use a second chain.	8/4/2023	9/8/2023	8/8/2023
		DCM SLU 3.1 0	Multiple	Paper on clipboard not covered w plastic. Please make sure all	01110000	0/0/0000	0 /= /0000
Minor	no	Level Vivarium	Rooms	bare paper is covered or laminated so it is sanitizable.	8/4/2023	9/8/2023	8/7/2023
		South Lake	6074	Did not have a contingency plan in place. Please work with your	0.10.10.000	0/40/2022	0 /40 /0000
Minor	no	Union	S374	liaison to create a plan.	8/9/2023	9/19/2023	9/12/2023
				Recapped needles found in room with no recapper present.			
		Carrella Lalva		Please remind everyone on the research team of the importance			
Minor	no	South Lake	NEOZ	of following the safety instruction not to recap needles without a		0/20/2022	0/11/2022
Minor	no	Union	N527	recapper.	8/11/2023	9/20/2023	9/11/2023
Minor	20	South Lake	S427	Eye wash is not being tested regularly. Eye wash must be tested	0/11/2022	0/22/2022	0/14/2022
Minor	no	Union	3427	and logged weekly.	8/11/2023	9/22/2023	8/14/2023
				Damaged chair is unsanitizable, needs to be removed/replaced;			
				only intact chairs that can be sanitized are permitted in animal use spaces.			
				Any tape that is used on walls and other surfaces needs to be			
				intact, and not crumbling or curling to expose a sticky surface.			
				Damaged tape should be replaced with sanitizable, plasticized			
		South Lake		lab tape, such as the Timemed brand—or, better yet, zip ties or			
Minor	no	Union	S427	magnets!	8/11/2023	9/20/2023	8/14/2023
	-	South Lake			, , , = = = =	, -,	, , ====
Minor	no	Union	N417	Expired Clidox needs to be discarded.	8/11/2023	9/15/2023	8/15/2023
			· · · · · ·		-,, 2020	-,,	-, -0, -0-0

				Damaged chair is unsanitizable, needs to be removed/replaced;			
		South Lake		only intact chairs that can be sanitized are permitted in animal			
Minor	no	Union	N527	use spaces.	8/11/2023	9/15/2023	9/11/2023
				Damaged chair is unsanitizable, needs to be removed/replaced;			
		South Lake		only intact chairs that can be sanitized are permitted in animal			
Minor	no	Union	S173	use spaces.	8/11/2023	9/19/2023	8/14/2023
				Please have the research team's OAW liaison Whitney (or other			
				appropriate person) contact Brandon Ausk or Steve Bain to set			
				up annual Biological Monitoring of equipment that comes into			
		South Lake		contact with animals (e.g. isoflurane induction chamber) to			
Minor	no	Union	N417	ensure that sanitation procedures are effective.	8/11/2023	9/22/2023	8/16/2023
		DCM SLU 3.1 7					
		Level Vivarium		Tape on and around isoflurane equipment needs to be			
Minor	no	BSL3/ABSL3	E739A	removed/replaced with fresh sanitizable tape.	8/14/2023	9/15/2023	8/24/2023
				All bare non-sanitizable paper (including Post-It notes) posted in			
				this space need to be encased in plastic sleeves or laminated. In			
				this space, the bare paper is a blue post-it note with lab contact			
				information. I encourage the research team to post this list in a			
				plastic sleeve so it can be easily removed and updated when			
			7 Level	there is turnover of lab personnel. I was not sure which research			
			Vivarium	team's members were listed, so our host Rick may need to help			
Minor	no	DCM SLU 3.1	BSL3/ABSL3	us figure out who to direct this to.	8/14/2023	9/22/2023	8/24/2023
		<b>Health Sciences</b>		All bare paper signage posted in this space needs to be encased			
Minor	no	Building	RR535	in plastic sleeves or laminated.	8/18/2023	9/22/2023	8/21/2023
				Instructions and Warning needed for topical gel. The lab uses			
				Nair to get rid of hair on surgical sites-this is in the protocol and			
		South Lake		okay, but it needs to state clear instructions for use and mention			
Minor	no	Union 3.2	F634	the risk of chemical burn to the animal.	8/21/2023	9/28/2023	8/29/2023
		DCM South		expired Clidox. Looks like it's changed out monthly-needs to be			
Minor	no	Lake Union 3.2	F715, F717	changed every two weeks.	8/21/2023	9/28/2023	8/28/2023

Singly housed animals without two forms of enrichment. The DCM protocol says singly housed animals must be given extra enrichment (nesting and a chew toy), I've reviewed the Schwartz protocol (2456-06) and they do have a husbandry exception but it doesn't, in my observation, apply to these cages. The animals are allowed to be singly housed, but there isn't a justified reason as to why they cannot receive a chew toy or hiding hut. If they do not wish to have these items, there needs to be an SSR stating this. There were SSR's present in the room-but not enrichment specific. Singly housed animals question at the top of the Husbandry SSR form  DCM South  DCM South  DCM South Lake  Minor no Lake Union 3.1 E477  Please create and post plan.  South Lake  Minor no Union 3.1 E258  No contingency plan in place. Please create and post plan.  South Lake  Minor yes Lake Union 3.2 F715, F715  CM South  DCM South  DCM South  PPE not available in the hallway. There also needs to be a trash can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE
"SSR" sign even though it specifies this as an instruction at the top of the Husbandry SSR form  Minor no Lake Union 3.2 F715 Correction due date: 9/29/2023 8/21/2023 9/29/2023 9/27/2023  South Lake No Contingency Plan in Place  Minor no Union 3.1 E477 Please create and post plan. 8/21/2023 9/26/2023 9/6/2023  South Lake  Minor no Union 3.1 E258 No contingency plan in place. Please create and post plan. 8/21/2023 9/27/2023 8/26/2023  DCM South Lake Union 3.2 F715, F717 can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway 8/21/2023 10/4/2023 8/28/2023  The nearest eyewash is in F725-near the animals rooms behind one door. The eyewash is not tested. Please check this eyewash  Minor no Lake Union 3.2 F725 and make a sign stating where the nearest eyewash is. 8/21/2023 10/4/2023 10/2/2023  Minor no Union E327 Bare paper taped on walls-please encase in plastic 8/21/2023 9/27/2023 9/26/2023
Minor no Lake Union 3.2 F715 Correction due date: 9/29/2023 8/21/2023 9/29/2023 9/27/2023  South Lake Minor no Union 3.1 E477 Please create and post plan. 8/21/2023 9/26/2023 9/6/2023  Minor no Union 3.1 E258 No contingency plan in place. Please create and post plan. 8/21/2023 9/27/2023 8/26/2023  DCM South Lake Union 3.1 E258 No contingency plan in place. Please create and post plan. 8/21/2023 9/27/2023 8/26/2023  DCM South Lake Union 3.2 F715, F717 can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway  The nearest eyewash is in F725-near the animals rooms behind one door. The eyewash is not tested. Please check this eyewash  Minor no Lake Union 3.2 F725 and make a sign stating where the nearest eyewash is. 8/21/2023 10/4/2023 10/2/2023  South Lake  Minor no Union E327 Bare paper taped on walls-please encase in plastic 8/21/2023 9/27/2023 9/26/2023
Minor no Lake Union 3.2 F715 Correction due date: 9/29/2023 8/21/2023 9/29/2023 9/27/2023  South Lake No Contingency Plan in Place Please create and post plan. 8/21/2023 9/26/2023 9/6/2023  South Lake Union 3.1 E258 No contingency plan in place. Please create and post plan. 8/21/2023 9/27/2023 8/26/2023  DCM South DCM South PPE not available in the hallway. There also needs to be a trash can to dispose of PPE in the hallway 8/21/2023 10/4/2023 8/28/2023  The nearest eyewash is in F725-near the animals rooms behind one door. The eyewash is not tested. Please check this eyewash and make a sign stating where the nearest eyewash is. 8/21/2023 10/4/2023 10/2/2023  Minor no Union E327 Bare paper taped on walls-please encase in plastic 8/21/2023 9/27/2023 9/26/2023
Minor no Union 3.1 E477 Please create and post plan. 8/21/2023 9/26/2023 9/6/2023  South Lake Minor no Union 3.1 E258 No contingency plan in place. Please create and post plan. 8/21/2023 9/27/2023 8/26/2023  DCM South Lake Union 3.2 F715, F717 PPE not available in the hallway. There also needs to be a trash can to dispose of PPE in the hallway 8/21/2023 10/4/2023 8/28/2023  The nearest eyewash is in F725-near the animals rooms behind one door. The eyewash is not tested. Please check this eyewash and make a sign stating where the nearest eyewash is. 8/21/2023 10/4/2023 10/2/2023  South Lake Minor no Union E327 Bare paper taped on walls-please encase in plastic 8/21/2023 9/27/2023 9/26/2023
South Lake Minor no Union 3.1 E258 No contingency plan in place. Please create and post plan.  DCM South Lake Union 3.2 F715, F717 Can to dispose of PPE in the hallway. There also needs to be a trash can to dispose of PPE in the hallway  The nearest eyewash is in F725-near the animals rooms behind one door. The eyewash is not tested. Please check this eyewash  Minor no Lake Union 3.2 F725 and make a sign stating where the nearest eyewash is.  South Lake  Minor no Union E327 Bare paper taped on walls-please encase in plastic  8/21/2023 9/27/2023 8/26/2023  8/21/2023 10/4/2023 10/2/2023  8/21/2023 9/27/2023 9/26/2023
Minor no Union 3.1 E258 No contingency plan in place. Please create and post plan.  DCM South PPE not available in the hallway. There also needs to be a trash can to dispose of PPE in the hallway  The nearest eyewash is in F725-near the animals rooms behind one door. The eyewash is not tested. Please check this eyewash and make a sign stating where the nearest eyewash is.  Minor no Union E327 Bare paper taped on walls-please encase in plastic  8/21/2023 9/27/2023 8/26/2023  8/21/2023 10/4/2023 10/4/2023 10/2/2023  8/21/2023 9/27/2023 9/26/2023
Minor yes
Minor yes Lake Union 3.2 F715, F717 can to dispose of PPE in the hallway 8/21/2023 10/4/2023 8/28/2023  The nearest eyewash is in F725-near the animals rooms behind one door. The eyewash is not tested. Please check this eyewash  Lake Union 3.2 F725 and make a sign stating where the nearest eyewash is.  South Lake  Minor no Union E327 Bare paper taped on walls-please encase in plastic 8/21/2023 9/27/2023 9/26/2023
The nearest eyewash is in F725-near the animals rooms behind one door. The eyewash is not tested. Please check this eyewash  Minor no Lake Union 3.2 F725 and make a sign stating where the nearest eyewash is.  South Lake  Minor no Union E327 Bare paper taped on walls-please encase in plastic 8/21/2023 9/27/2023 9/26/2023
Minor no Lake Union 3.2 F725 and make a sign stating where the nearest eyewash is.  South Lake  Minor no Union E327 Bare paper taped on walls-please encase in plastic 8/21/2023 9/27/2023 9/26/2023
Minor no Lake Union 3.2 F725 and make a sign stating where the nearest eyewash is. 8/21/2023 10/4/2023 10/2/2023  South Lake  Minor no Union E327 Bare paper taped on walls-please encase in plastic 8/21/2023 9/27/2023 9/26/2023
South Lake Minor no Union E327 Bare paper taped on walls-please encase in plastic 8/21/2023 9/27/2023 9/26/2023
Minor no Union E327 Bare paper taped on walls-please encase in plastic 8/21/2023 9/27/2023 9/26/2023
Need emergency contacts on ALL cages-this was a finding in Feb
2023 and has not been fixedThere were cage cards that just
had initials on them or a name but way to look up who that is or
an associated phone number (ideally, for a room with so many
DCM South different researchers, contact info should be posted on the wall).
Minor no Lake Union 3.2 F715 Other cards had no name at all. 8/21/2023 10/4/2023 10/2/2023
Many chairs in poor condition. The lab doesn't know how to
procure better chairs or fix the ones they have. Their entire lab has the foam style chair that should not be used in animal areas
OR in the lab space. My hope is to bring attention to this via
IACUC deficiency in order to attain UW Facilities attention. Order
South Lake new chairs or seal current chairs.
Minor yes Union E258 8/21/2023 9/29/2023 8/26/2023

		DCM South		There was a stack of clean cages and a food pellet on the floor covered with a blanket No items should be directly placed on the floor. Please elevate.		
Minor	no	Lake Union 3.2	F715		8/21/2023	9/29/2023 8/28/2023
		South Lake			<u> </u>	
Minor	no	Union 3.1	E327	No contingency plan in place/posted. Please create and post.	8/21/2023	9/28/2023 9/26/2023
	•	DCM South		Incomplete SSR and husbandry LogsPlease organize, clarify, and	*	
Minor	no	Lake Union 3.2	F715	monitor	8/21/2023	10/4/2023 8/29/2023
				There was a surgery log present, but animals weights were not		
				noted. In the protocol, it states, for substance administration,		
				"Total volume will not exceed 10 microliters per gram of body		
				weight" but there weren't any logged body weights. I		
				understand they procure their Buprenorphine from Vet Services,		
				but it is not clear how or when they do this. No indication of post		
				op monitoring.Please record and document animal weights.		
		South Lake		Please document post op monitoring.		
Minor	no	Union 3.2	F634		8/21/2023	9/29/2023 8/29/2023
		South Lake		No Contingency plan posted/in place.Please work with liaison to		
Minor	no	Union 3.2	F762	write one up and post it in a visible place.	8/24/2023	9/11/2023
		South Lake		Vaporizers need servicing. Please have vaporizers serviced so		_
Minor	no	Union	F762	they are up to date.	8/24/2023	10/31/2023 9/14/2023
	·			Ceiling needs repairs. Ceiling repairs are scheduled for Sept-Oct		
				(maintenance project of the entire building is scheduled to take		
				place over about a month, starting late September). Please have		
				host Gael Kurath confirm via HoverBoard when these repairs		
Minor	no	USGS	D119B, D119D	have been completed.	8/28/2023	10/26/2023 10/3/2023
				The floor in this room is very dirty with resin. Needs to be		
		South Lake		stripped and re-waxed. Host agrees. Zak will submit request to		
Minor	no	Union 3.1	154A	Facilities Services.	8/28/2023	11/15/2023 11/14/2023
		South Lake		Eyewash not flushed weekly. Eyewash station not being flushed		
Minor	no	Union 3.1	154A	weekly. Please flush and log weekly	8/28/2023	10/6/2023 9/5/2023
		South Lake				
Minor	no	Union 3.1	E144	Contingency Plan Missing for Zebrafish; please write up and post	8/28/2023	10/4/2023 8/29/2023
				All bare paper (including Post-It notes) posted in this space need		
Minor	no	NOAA	204E	to be encased in plastic sleeves or laminated.	8/28/2023	10/3/2023 8/29/2023
		South Lake				
Minor	no	Union 3.1	E520	Missing Contingency Plan for mice; please write up and post	8/28/2023	10/4/2023 8/29/2023

				Ben Hall 364 & 365 (O'Donnell): All bare paper posted in this space needs to be encased in plastic sleeves or laminated.		
Minor	no	Benjamin Hall	364, 365	space fieeds to be effcased in plastic sleeves of familiated.	8/30/2023	10/6/2023 9/21/2023
				Recapped needles found in room. Please remind everyone on		
				the research team of the importance of following the safety		
Minor	no	Benjamin Hall	365	instruction not to recap needles.	8/30/2023	10/6/2023 9/21/2023
				Guilloting missing log. There was a guillotine present in the		
				room, but I couldn't find a blade sharpening/maintenance log in close proximity as outlined in the IACUC Euthanasia Policy. If the		
		DCM T-Wing		guillotine is not in use, please mark it as such, or have the log		
Minor	no	Vivarium	T139	readily available for inspection.	8/31/2023	10/6/2023 9/21/2023
14111101	110	vivariam	1133	Vetchecked rat not getting daily treatmentsT131 (Perlmutter	0/31/2023	10/0/2023 3/21/2023
				lab): vetchecked rat on rack 5, row 2, space 6 is supposed to		
		DCM T-Wing		have daily betadine treatments, but the last treatment date		
Minor	no	Vivarium	T131	listed was 8/27Please treat daily and document.	8/31/2023	10/6/2023 9/6/2023
		·		Paneling behind sink is delaminating, with visible mold present.		
		WaNPRC Health	า	Areas must be sanitizable, and mold is an occupational health		
Minor	yes	Sciences	1553	risk. This area must be repaired	9/7/2023	1/5/2024
		WaNPRC Health				
Minor	no	Sciences	1013, 1021	Expired Scrub in scrub kit needs to be replaced.	9/7/2023	10/20/2023 9/8/2023
		WaNPRC Health			0 /7 /0000	40/40/20020/40/2002
Minor	no	Sciences	1553	Expired Eye Rinse in Scrub KitPlease discard and replace	9/7/2023	10/18/2023 9/12/2023
				Fish food left at ambient temperature and opened without		
		Friday Harbor		proper lid. No open date on any of the products. Please keep all perishable items in a refrigerator, label with open and		
Minor	no	Labs	Lab 8	expiration date.	9/11/2023	10/17/2023 10/9/2023
14111101	-110	2403		Eyewashes are checked by facilities once a week-so we were	3/11/2023	10/11/2023 10/3/2023
				told. Couldn't locate any logs or was not able to meet with any		
				facilities personSeveral of the eyewashes appeared dirty and		
		Friday Harbor		crusted-cannot guarantee this is being done regularly. Please		
Minor	no	Labs	Various labs	clean and document daily.	9/11/2023	10/17/2023 10/9/2023
		Friday Harbor	Lab 7: F112,	Unsanitizable ChairsCloth chairs. Please replace or use chair		
Minor	no	Labs	F133	cover to ensure chairs are sealed and sanitizable.	9/11/2023	10/27/2023 10/9/2023
				Husbandry log missing water temp monitoring log. Husbandry		
				log: A water temp monitoring task should be completed daily		
				and it is not. Host said they keep a log in a different location		
D 41		Friday Harbor	1 - 1- 0	(didn't get to see). Recommend removing that task from	0/44/2022	10/17/2022 10/2/2022
Minor	no	Labs	Lab 8	the daily log if they aren't tracking it or track it somewhere else	9/11/2023	10/17/2023 10/9/2023

			Round Tank			
		Friday Harbor	Room: F112,	Lights with no casings (Round Tank Room, F112/113)Please		
Minor	no	Labs	F113	encase lights.	9/11/2023	10/31/2023 10/9/2023
		Friday Harbor	Lab 6, round	Electrical Outlets on the ground near hoses/tanks. Move off of		
Minor	no	Labs	tank room	ground, away from hoses/tanks.	9/11/2023	10/20/2023 10/9/2023
				Overfull and Dirty Refrigerators. Refrigerators are packed FULL		
				with various samples and solutions. An effort should be made to		
		Friday Harbor		clear these out so they are useable. Fridges are also dirty. Please	9	
Minor	no	Labs	Various labs	clean.	9/11/2023	10/20/2023 10/9/2023
		Friday Harbor		Unlabeled Solutions. There are lots of unlabeled solutions in		
Minor	no	Labs	Various labs	various refrigerators on on cabinets, etc. Please label.	9/11/2023	10/19/2023 10/9/2023
				All bare paper (including Post-It notes) posted in this space		_
		Health Sciences		needs to be encased in plastic sleeves or laminated. Please		
Minor	no	Building	B108D	encase all paper, laminated or in sleeve.	9/14/2023	11/9/2023 11/6/2023
		Health Sciences	_	Expired food was found in several locations throughout the lab.		
Minor	no	Building	C525	Please discard expired food.	9/14/2023	11/15/2023 11/9/2023
				There are several shelves without 'earthquake lips' that could		
				prevent the multitude of glass bottles from shattering during an		
		Health Sciences		earthquake. Dr. Bitto will need to work with his department to		
Minor	no	Building	C525	get Facilities to install the safety lips on the open shelves in C525	.9/14/2023	11/29/2023 11/28/2023
		Health Sciences		The NHP Scrub Kits in the lab were all expired. Please remove		
Minor	no	Building	H330	expired scrub kit items and replace with new ones	9/14/2023	11/15/2023
				All bare paper (including Post-It notes) posted in this space		
		Health Sciences		needs to be encased in plastic sleeves or laminated. Please		
Minor	no	Building	C525	encase or laminate all paper	9/14/2023	11/8/2023 11/6/2023
		WaNPRC 6th	6th Floor	A label indicating contents and relevant dates needs to be re-		
Minor	no	Floor Vivarium	vivarium	affixed to the plastic bag containing Fiber Bites gummies.	9/15/2023	10/27/2023 9/19/2023
		WaNPRC 6th		Tthe infusion pump attached to the treatment cart is beyond the	2	
Minor	no	Floor Vivarium	G606	maintenance due date and should either be serviced or removed	9/15/2023	10/27/2023 10/6/2023
				Cleaning tools are sitting on floor and generally very		
		WaNPRC 6th		disorganized; all cleaning implements (brooms, squeegees, etc)		
Minor	no	Floor Vivarium	G608	should be hanging and not directly in contact with the floor	9/15/2023	10/27/2023 10/26/2023
		WaNPRC 6th	6th Floor			_
Minor	no	Floor vivarium	vivarium	Expired Food. A bag of expired food needs to be discarded.	9/15/2023	10/27/2023 9/18/2023
		Health Sciences	_	Missing Contingency Plan. Please write up and post a		
Minor	no	Building	RR747	contingency plan.	9/20/2023	11/21/2023 10/24/2023
		Health Sciences		The light bulb in this space is burnt out. WO has been submitted		
Minor	no	Building	K087	to replace.	9/27/2023	11/10/2023 11/16/2023
		_				

				Ceiling tile needs repair. There is a gap in the ceiling tile around		
		Health Sciences		one of the fire sprinkler heads that needs to be repaired. Zak to		
Minor	no	Building	1534Q	submit work order into FS Works	9/28/2023	12/21/2023 1/2/2024
				Damaged Tape on Walls. Any tape that is used on walls and		
				other surfaces needs to be intact, and not crumbling or curling to	)	
		Health Sciences		expose a sticky surface. Damaged tape should be replaced with		
Minor	no	Building	1534Q	sanitizable, plasticized lab tape.	9/28/2023	10/31/2023 9/29/2023
		Health Sciences		Container of reward food treats in refrigerator was unlabeled.		
Minor	no	Building	1341b	List contents and expiration date on container.	9/28/2023	11/10/2023 10/3/2023
		Health Sciences		Recapped needles found in biohazard waste. Remind lab that		
Minor	no	Building	1341e	needles should be discarded after use without recapping.	9/28/2023	11/10/2023 10/3/2023
				Eyewashes need testing. Each room has an eye wash but they		
		Health Sciences		record the testing by recording the date, the testing hasn't been		
Minor	no	Building	1341b, 1341e	done since June so it needs to be resumed.	9/28/2023	11/10/2023 10/3/2023
		Health Sciences		Unlabeled syringe with blunt needle in refrigerator needs to be		
Minor	no	Building	1341b	labeled with contents and, if appropriate, expiration date.	9/28/2023	11/14/2023 10/3/2023
		Health Sciences				
Minor	no	Building	K127	Expired Drugs. Remove, label expired drugs	9/29/2023	11/16/2023 10/12/2023
				Expired drugs stored with non-expired drugs and not clearly		
		Health Sciences		labeled. Please dispose of all expired drugs and ensure all drugs		
Minor	no	Building	K122	are clearly labeled.	9/29/2023	11/10/2023 9/29/2023
		Health Sciences				
Minor	no	Building	K122	Damaged chair - please seal or replace	9/29/2023	11/28/2023 10/10/2023
		Health Sciences		Loose paper in animal spaces - please encase in plastic sleeve or		
Minor	no	Building	K107, K107A	laminate	9/29/2023	11/9/2023 10/5/2023
		Health Sciences		Please label all solutions. If expired, discard, and re-label new		
Minor	no	Building	K107A	solutions	9/29/2023	11/9/2023 10/5/2023
		WaNPRC Health	1			
		Sciences I-				
		Wing/Court		No Scrub in B Virus kit. Please acquire and place Scrub in the B		
Minor	no	Vivarium	1363A	Virus Kit	10/3/2023	11/15/2023 10/12/2023
		WaNPRC Health	1			
		Sciences I-				
		Wing/Court		Lollipop found, not appropriate for this space. Do not bring		
Minor	no	Vivarium	1455	human food into the lab. Please discard lollipop.	10/3/2023	11/8/2023 10/12/2023

		WaNPRC Health Sciences I-					
		Wing/Court		Please discard expired scrub. Replace with properly labeled new			
Minor	no	Ving/Court	1089L	scrub.		11/8/2023	10/12/2023
IVIIIIOI	110	WaNPRC Health		Scrub.	10/3/2023	11/0/2023	10/12/2023
		Sciences I-					
		Wing/Court					
Minor	no	Vivarium	1455	Please discard expired antibiotic ointment asap.	10/3/2023	11/8/2023	10/12/2023
		WaNPRC Health		· ·			
		Sciences I-					
		Wing/Court		Door to room does not close properly. Submit Work Order to			
Minor	no	Vivarium	1737	Facilities.	10/3/2023	12/13/2023	3 11/15/2023
		WaNPRC Health					
		Sciences I-					
		Wing/Court		Falling signage over scale in hallway. Please secure or replace			
Minor	no	Vivarium	1700T	falling signage.	10/3/2023	11/8/2023	11/8/2023
		DCM Guthrie					
Minor	no	Hall Vivarium	351B	Unsanitized weight station. Please sanitize the weight station.	10/11/2023	11/22/2023	3 11/20/2023
				Eyewash not signed off since 9/18. Please make sure to check			
Minor	no	Guthrie Hall	414	and log eyewash station flushing weekly.	10/11/2023	11/20/2023	3 11/24/2023
				Please make sure to check and log eyewash station flushing			
Minor	no	Guthrie Hall	418	weekly.	10/11/2023	11/20/2023	3 11/24/2023
				Missing ceiling tile. Need to fix the ceiling tile, awaiting			
Minor	no	Guthrie Hall	419	clarification on the future use of the space.	10/11/2023	12/13/2023	3 10/19/2023
				One vial of non-pharmaceutical grade buprenorphine found in			
		6.1		drug box (PIs office). Please reach out to OAW liaison to ensure			
D. 41		Health Sciences	1604 4 160411	that the correct agent is being used in line with your protocol	40/46/2022	4 /4 7 /2024	42/5/2022
Minor	no	Building	J681A, J681H	and correct accordingly.	10/16/2023	1/17/2024	12/5/2023
D 4:		Health Sciences	DD057	Missing contingency plan. Please write up and post a	40/40/2022	44/20/2022	10/10/2022
Minor	no	Building	BB857	contingency plan.	10/18/2023	11/20/2023	3 10/19/2023
Nainau		Dansen Hell	211	Raw paper posted. Please ensure that all paper is laminated or	10/10/2022	11/22/2022	10/24/2022
Minor	no	Benson Hall	211	in a plastic sleeve.	10/18/2023	11/23/2023	3 10/24/2023
Minor		Dancan Hall	211	Missing Eyewash log. Please ensure that the eyewash station is	10/10/2022	11/22/2021	10/24/2022
Minor	no	Benson Hall Health Sciences	211	being flushed and logged weekly.	10/10/2023	11/22/2023	3 10/24/2023
Minor	no	Building	H227	Please laminate all paper or place in plastic sleeve.	10/19/2022	11/21/2023	3 10/19/2023
IVIIIIUI	no	Bullullig	1144/	ricase iaminate an paper of place in plastic sieeve.	10/10/2023	11/21/2023	2 10/ 12/ 2023

		Health Sciences		Fume hood not signed off for inspection . Once EH&S updates the sign off date, please make sure to complete the corrective	
Minor	no	Building	F511	action.	10/18/2023 11/30/2023 11/14/2023
	-			Missing Contingency Plan. Please put a contingency plan in	
Minor	no	Benson Hall	211	place.	10/18/2023 11/22/2023 10/24/2023
	•	Health Sciences		Raw paper posted. Please ensure that all paper is encased in	
Minor	no	Building	G524A	plastic sleeves or laminated.	10/18/2023 11/21/2023 11/17/2023
				Non-water resistant tape . Please ensure that damaged tape is	
				replaced with sanitizable, plasticized lab tape, such as the	
Minor	no	Benson Hall	211	Timemed brand—or magnets.	10/18/2023 11/23/2023 10/24/2023
	·	·		All bare paper (including Post-It notes) posted in this animal use	
				space needs to be encased in plastic sleeves or laminated	
		Health Sciences		Please ensure that all paper is encased in plastic sleeves or	
Minor	no	Building	K116	laminated.	10/18/2023 11/21/2023 10/20/2023
		<b>Health Sciences</b>		Raw paper posted. Please ensure that all paper is encased in	
Minor	no	Building	H507	plastic sleeves or laminated.	10/18/2023 11/21/2023 11/17/2023
		Health Sciences			
Minor	no	Building	E426	Please laminate or place all paper in plastic sleeves.	10/18/2023 11/21/2023 10/19/2023
		<b>Health Sciences</b>		Please ensure that all paper is encased in plastic sleeves or	
Minor	no	Building	J083B	laminated.	10/18/2023 11/21/2023 10/19/2023
		Health Sciences		Missing Contingency Plan. Please put a contingency plan in	
Minor	no	Building	K116	place.	10/18/2023 11/22/2023 10/24/2023
				Cardboard box on floor needs to be raised up to avoid exposure	
				to spilled liquids. Please raise cardboard boxes off the floor to	
Minor	no	Benson Hall	211	avoid exposure to spilled liquids.	10/18/2023 11/22/2023 10/20/2023
				Cord across floor presents a trip hazard, please secure with	
				sanitizable cord cover. Please secure cords with sanitizable cord	
Minor	yes	Guthrie Hall	363A	covers.	10/19/2023 11/23/2023 10/24/2023
				Please remove all signage from the door indicating experiments	
				are in progress. There should be a sign that states that this room	
Minor	no	Guthrie Hall	351B	is not being used for experiments.	10/19/2023 11/30/2023 11/20/2023
			052, 052A,		
D 4:		6 11 11 11	351A, 351C,	Please add a disaster contingency plan to all rooms on the	40/40/2022 42/6/2022 44/20/2022
Minor	no	Guthrie Hall	356, 358	protocol.	10/19/2023 12/6/2023 11/20/2023
p. 4.*			25.6	Bag of expired rat pellets. Please discard. Please discard the bag	40/40/2022 44/20/2022 44/20/2022
Minor	no	Guthrie Hall	356	of expired rat pellets.	10/19/2023 11/30/2023 11/20/2023
		0 11 1 11 11	351, 356, 358	·	
Minor	no	Guthrie Hall	Hallway	being checked and logged weekly.	10/19/2023 11/30/2023 11/22/2023

		Health Sciences		Please post sign on isoflurane machine that was last inspected	
Minor	no	Building	H428B	over a year ago "DO NOT USE UNTIL RECALIBRATED".	10/25/2023 11/29/2023 10/25/2023
				Any tape that is used on walls and other surfaces needs to be	
				intact, and not crumbling or curling to expose a sticky surface.	
		Health Sciences		Please ensure that damaged tape is replaced with sanitizable,	
Minor	no	Building	1501	plasticized lab tape, such as the Timemed brand—or magnets	10/25/2023 11/29/2023 11/3/2023
				MS222 is currently not being prepared in a hood. Preparation in	
				a hood is required for occupational health and safety. Please	
				review the EH&S SOP on preparation of MS-222 with your team	
		Health Sciences		and adjust current lab practices as needed for alignment. The	
Minor	no	Building	J430	previous SOP is attached.	10/25/2023 12/6/2023 11/20/2023
		Health Sciences		Please ensure that the eyewash is being tested and logged	
Minor	no	Building	J429	weekly.	10/25/2023 11/29/2023 11/27/2023
				All gas tanks need to be properly secured to ensure they can't	
		Health Sciences		fall over or slip out from under a loose chain in the event of an	
Minor	no	Building	H404	earthquake. Please properly secure all gas tanks.	10/25/2023 11/29/2023 10/25/2023
		Health Sciences		Please be sure to label the contents of containers in addition to	
Minor	no	Building	H428A	their expiration dates, which were present.	10/25/2023 11/29/2023 10/25/2023
		Health Sciences		Please post the lab's contingency plan where it can be easily	
Minor	no	Building	H431	referenced during an emergency.	10/25/2023 11/29/2023 10/25/2023
				All bare paper (including notes on paper towels and Post-It	
				notes) posted in this space needs to be encased in plastic sleeves	
		Health Sciences		or laminated Please ensure that all paper posted is encased in	
Minor	no	Building	J429	plastic sleeves or laminated.	10/25/2023 11/29/2023 11/13/2023
		Health Sciences		Please ensure that all bare paper posted in this space is encased	
Minor	no	Building	G530	in plastic sleeves or laminated.	10/25/2023 11/29/2023 11/2/2023
		Health Sciences		Please ensure that the eyewash is being tested and logged	
Minor	yes	Building	H404	weekly.	10/25/2023 11/29/2023 10/25/2023
		Health Sciences		Please post the lab's contingency plan where it can be easily	
Minor	no	Building	J611, J631	referenced during an emergency.	10/25/2023 11/29/2023 11/13/2023
				Records of surgery and post-operative monitoring are currently	
				not being maintained. Please work with your liaison to develop a	
		Health Sciences		system to ensure surgical and post-operative monitoring is being	
Minor	no	Building	J430	consistently and properly documented.	10/25/2023 12/6/2023 12/1/2023
				All bare paper (including notes on paper towels and Post-It	
				notes) posted in this space needs to be encased in plastic sleeves	
		Health Sciences		or laminated. Please ensure that all paper posted in this space is	
Minor	no	Building	G530A	encased in plastic sleeves or laminated.	10/25/2023 11/29/2023 10/30/2023

		Health Sciences		Cloth chair is unsanitizable, needs to be removed/replaced; only chairs that can be sanitized are permitted in animal use spaces.	
Minor	no	Building	I501	Please remove the unsanitizable cloth chair.	10/25/2023 11/29/2023 11/2/2023
				All bare paper (including notes on paper towels and Post-It	
				notes) posted in this space needs to be encased in plastic sleeves	;
		Health Sciences		or laminated. Please ensure that all paper posted is encased in	
Minor	yes	Building	H413	plastic sleeves or laminated.	10/25/2023 11/29/2023 10/26/2023
		Health Sciences			
Minor	no	Building	J429	Please raise cardboard boxes off the floor.	10/25/2023 11/29/2023 11/6/2023
		DCM Animal		CO2 euthanasia lid for mice is incompatible with NextGen	
		Research and		caging Please work with ARCF Facility supervisors to get a	
Minor	no	Care Facility	B141D	compatible CO2 euthanasia lid.	10/27/2023 12/14/2023 11/2/2023
				Hood needs monthly cleaning Please ensure the hood gets a	
				monthly cleaning. We followed up with DCM facilities and they	
		DCM Animal		confirmed that Adrienne Lenert from Miyaoka lab had been	
		Research and		responsible for cleaning it in the past. Please assign a new persor	
Minor	no	Care Facility	B141D	to be responsible for the cleaning now that Adrienne has left.	10/27/2023 12/5/2023 11/7/2023
		DCM Animal			
		Research and	D2024		40/00/0000 44/00/0000
Minor	no	Care Facility	B203A	Room needs new mop holder. Please get a new mop holder.	10/30/2023 11/30/2023
				Card noted 'mild dermatitis' but mouse was scratching	
				aggressively and had a lot of bare skin (possibly due to barbering	
		DCM Animal		by cage mate who was observed grooming this mouse) and what	
		Research and		looked like some blood. Please be sure to continue to closely	
Minor	no	Care Facility	B148D	monitor the health of this animal, even though there are only a few animals in this room.	10/30/2023 11/30/2023 12/21/2023
IVIIIIVI	110	DCM Animal	D140D	iew animais in this room.	10/30/2023 11/30/2023 12/21/2023
		Research and			
Minor	no	Care Facility	B210A	Room needs a new mop holder. Please get a new mop holder.	10/30/2023 11/30/2023 12/21/2023
14111101	110	DCM Animal	B210A B205, B207,	Missing several weeks of eye wash testing and logging in	10, 30, 2023 11, 30, 2023 12, 21, 2023
		Research and	B203, B207, B209, B211,	October Please check all rooms with eye washes in the facility	
Minor	no	Care Facility	B212, B219	and ensure that they are being tested and logged weekly.	10/30/2023 11/30/2023 11/27/2023
14111101	110	DCM Animal	5212, 5213	Zip lock baggie had an expiration date listed, but contents were	10, 00, 2023 11, 30, 2023 11, 21, 2023
		Research and		not identified. Please be sure to label contents of any secondary	
Minor	no	Care Facility	B213	containers, as well as expiration dates.	10/30/2023 11/30/2023 12/21/2023
		care raciney		containers, as went as expiration dates.	_0,00, _000 11,00, 2020 12, 21, 2020

Minor	no	DCM Animal Research and Care Facility	B219A	The audio enrichment in this dog room seemed 'wrong'. Maybe we were hearing some weird recording of faint doggie noises or maybe the radio tuner had drifted off its regular station Please check and confirm that appropriate audio enrichment is being provided to the dogs in this room.	10/30/2023	11/30/2023	312/4/2023
		DCM Animal					
		Research and		Room needs new (stronger) mop holder. Please get a new,			
Minor	no	Care Facility	B208	stronger mop holder	10/30/2023	11/30/2023	
	-110	care raciney	2200	Emergency contact info on cage cards includes names only, no	10,00,2020	11/00/2020	
		DCM Animal		phone numbers. Please add numbers to cage cards or post			
				· ·			
N 4:		Research and	D4.40C	master list of names and phone numbers on the wall of the room		44/20/2022	144/27/2022
Minor	no	Care Facility	B148C	(laminated or encased in a plastic sleeve).	10/30/2023	11/30/2023	311/27/2023
		DCM Animal		Expired spray bottle (or possibly the wrong label was used) for			
		Research and		Rescue/Kennel Sol solution.Please dispose of and replace the			
Minor	no	Care Facility	B203A	expired spray bottle of Rescue/Kennel Sol solution.	10/30/2023	11/30/2023	12/4/2023
		WaNPRC					
		Animal					
		Research and		Mop/squeegee on floor. Please ensure that mops, squeegees			
Minor	no	Care Facility	B282B	and brooms are hung up off floor when not in use.	10/31/2023	12/5/2023	11/2/2023
		WaNPRC		<u>-</u>			
		Animal		There is an apparent discrepancy between the drug log and the			
		Research and		contents of the drug lock box for Buprenorphine HCl. Please			
Minor	no	Care Facility	B284	reconcile this discrepancy with appropriate, initialed corrections.	10/31/2023	12/5/2023	11/9/2023
		- Care radiney		Please ensure that gas tanks are being checked to make sure	10,01,2020	12/3/2023	11/3/2020
				they are secured properly. The lab may want to post a reminder			
		Haalth Calamaa		sign for the gas delivery people and check this space regularly to			
		Health Sciences		make sure the instructions are being followed and tanks are	44/0/2000	40/7/0000	44/42/2003
Minor	yes	Building	J106	being secured properly.	11/2/2023	12///2023	11/13/2023
		Health Sciences		Eye wash log is missing some weekly checks. Please ensure that			
Minor	no	Building	H310K	the eyewash is being tested and logged weekly.	11/2/2023	12/7/2023	11/6/2023

### **Appendix C: Departures**

8 protocols with housing at non-standard temperatures (6 mice, 1 rats, 2 zebrafish)

- 1 protocol (zebrafish) Larval zebrafish are reared from fertilization to 7dpf at 16-18Cto delay development and induce mitochondrial biogenesis.
- 1 protocol (mice) Ambient temperature oscillates between a maximum of 22±1°C during the light phase and a minimum of 15±1°C during the dark phase to test impact of circadian and sleep hygiene on symptoms of Dravet syndrome.
- 6 protocols (mice/rats) Ambient temperature will be held at thermoneutral (maximum 32C) or cool temperature (minimum 14C) during metabolic experiments.

14 protocols with cage size variances (11 mice, 2 rats, 1 mice and rats, 1 non-human primates)

- 9 protocols (mice) Housing in the Comprehensive Lab Animal Monitoring System (CLAMS) metabolic cage, which has a cage height of 4" for mice.
- 3 protocols (mice/rats) Raised wire flooring (<1.5") to facilitate fecal collection and/or prevent coprophagia.
- 1 protocol (NHPs) Housing two infant macaques (up to 4 weeks of age) in the nursery in a single isolette with 2.4 sq ft of floor space when two newborns require nursery rearing at the same time.
- 1 protocol (rats) -Housing in an ethanol vapor delivery chamber and/or thermal gradient alleyway with raised custom flooring, reducing internal height to 6.25" and 4.75", respectively.

12 protocols with wire bottom cages (8 mice, 1 rats, 2 mice and rats, 1 rats and gerbils)

- 7 protocols (mice/rats) Housing in a metabolic cage with wire flooring and no bedding.
- 5 protocols (mice/rats/gerbils) Wire bottom cages to facilitate fecal collection and/or prevent coprophagia.

14 protocols with food provided on the floor (12 mice, 2 rats)

height of a group 4 (64 inches).

- 9 protocols (mice/rats) Food placed on floor following experimental manipulation to provide nutritional supplementation for animals with potential impaired mobility.
- 3 protocols (mice/rats) Implanted animals are housed without wire-top and food is placed on the floor to prevent interference with the implant.
- 2 protocols (mice) Small amount of food placed on floor for newly weaned animals.

IACUC-Approved General Departures Summarized – Details can be found in SharePoint.

- The IACUC has approved 3 cage dimension exceptions for non-human primates

	New since last semiannual report: The Animal Welfare Act Regulations require 8.0 sq ft of floor area and 36 inches of height for primates between 15kg and 25kg (group 5). The IACUC has approved an exception to singly-house group 5 primates in L-shape or C-shape configurations composed of group 4 cages with removable floors and sides. An animal housed in this manner would have access to three or four cages with one section/rack opened to both upper and lower cages (thus providing double the normal height of a group 4 [64 inches]), and one section/rack where the second-story floor remains in place (thus providing less than 36 inches height, but at least 32 inches).
	The Animal Welfare Act Regulations require 3.0 sq ft of floor space per animal for nonhuman primates weighing 1 to 3 kg (Group 2), and 4.3 sq ft of floor space for animals that weigh 3 to 10 kg (Group 3). The IACUC has approved an exception to house four juvenile nonhuman primates (up to 5 kg body weight) as a group in a Group 3 sized 4-cage rack with both vertical dividers and one horizontal divider removed. This 4-cage rack will have 12.9 sq ft of floor space. The volume of space meets the regulations for Group 3 animals, and each quadrant of the rack contains a perch.
	The Animal Welfare Act Regulations requires 6.0 sq. ft. of floor area and 32 inches of height for primates weighing up to 15 kg (group 4), and 8.0 sq. ft. of floor area and 36 inches of height for

primates weighing up to 20 kg (group 5). The IACUC has approved an exception to house two group 5 primates in three group 4 (6.0 sq. ft.) cages, each having access to two group 4 floors (12 sq ft) with one cage opened to both upper and lower cages, thus providing double the normal

- Exception to house infant monkeys in cages that meet floor space requirements but are only 15" to 20" high. The lower cage height reduces the risk of injury if an animal should fall.
- Exception to allow scattering of food on the floor of NHP housing compounds to minimize contamination and ensure access to food and foraging opportunities for all animals.
- Exception to allow for 28 day cage changes for singly house gerbils.
- Exception to allow for changing of cages, wire-tops, and water bottles within the isolator in the Gnotobiotic Animal Core (GNAC) facility on an as-needed basis, such as due to damage or crusted material which cannot be scraped off. Since mice are in a germ-free, sterile environment, no microorganisms are present within the isolator. Bedding in cages within the isolator is changed at least once a week, or more often if necessary.

### **Appendix D: D IACUC Program Review Group Reports**

#### 1. The Animal Care and Use Program – Was found to be acceptable

In prior reviews, questions arose regarding content of Inter-Institutional Agreements. We feel this has been addressed well via the inclusion of a template on the sharepoint site.

#### 2. Disaster Planning and Emergency Preparedness - Was found to be acceptable

Prior reviews in the past year noted that additional emphasis should be placed on communicating expectations for contingency plans. This group felt that expectations have been well-communicated and that complete contingency plans are consistently posted in all spaces during site visits. We specifically discussed the past suggestion that templates be provided and we respectfully disagree with the providing templates due to the risk of templates being posted without customization to each specific laboratory environment.

#### 3. IACUC – Was found to be acceptable

We want to point out that our Root Cause Analysis subcommittee provides a mechanism for evaluating the effectiveness of training programs, when cases are taken on.

The challenge of evaluating the effectiveness of training programs is often brought up at these semiannual reviews. Our group wanted to take a data-driven approach by surveying both IACUC members and 'clients' (i.e. Pls) to get their thoughts about the effectiveness of the training programs provided.

#### 4. IACUC Protocol Review - Special Considerations – was found to be acceptable

The Protocol Review section of the OLAW checklist was reviewed. The group felt that most of the items are adequately addressed through specific questions asked in the protocol form that are reviewed during prereview, veterinary consult, and IACUC review.

The group discussed pilot studies and potential methods of communication with the IACUC, including OAW liaisons, veterinary monitoring, and direct requests from the IACUC to report back to the committee. These processes seem effective.

The group discussed the classification of major vs minor surgery. These are evaluated on a case-by-case basis, since the protocol form that is reviewed by the IACUC requires a classification for each surgery. The benefits of applying a consistent definition were discussed, as well as the option to request full committee review if a member disagreed with the classification in the protocol.

For field studies, it is understood that all studies must undergo an occupational health review that provides information on zoonotic and other safety risks, and investigators must identify in the protocols the types of permits that are required.

The group discussed toe-clipping and endorses a previous recommendation made by the committee that the IACUC Genotyping Policy and/or the DCM Animal Identification SOP be updated to include statements

about the use of toe clipping (e.g. not recommended, only appropriate for ID if critical for genotyping, only in very young animals, must use anesthesia/analgesia, etc).

#### 5. IACUC Membership and Functions - Was found to be acceptable

No suggestions for improvement

#### 6. <u>IACUC Training – Was found to be acceptable</u>

One of the areas we were tasked with evaluating is ongoing training and education of the IACUC. We want to acknowledge the great job our AV has been doing with her training presentations at our meetings.

We remember in the past having online training opportunities hosted by OLAW and NABR that were made available through OAW. If these training seminars are being offered, we would like to see them made available to IACUC members.

#### 7. <u>IACUC Records and Reporting Requirements - Was found to be acceptable</u>

No suggestions for improvement

#### 8. Veterinary Care – Was found to be acceptable

We found the veterinary care program to be comprehensive in its scope and nature, and offers high quality of care and ethical standards. We discussed each item on the checklist pertaining to this portion of the program review and agreed that the UW veterinary care program itself adequately covers all aspects reviewed including clinical care and management, animal procurement and transportation, preventative medicine, surgery, analgesia and anesthesia, euthanasia, and drug storage and control.

A few isolated minor deficiencies were noted during IACUC inspections in regard to "Anesthetics and analgesics are acquired, stored, and their use and disposal are recorded legally and safely". These minor deficiencies included instances in which improper labelling and storage of drugs, lapses in anesthetic equipment maintenance, drug log documentation, and drug handling procedures occurred. While we recognize that these incidents are isolated to specific labs, additional e-lesson trainings have been implemented including information pertaining to appropriate drug storage and control to help mitigate these types of deficiencies from occurring in the future. Corrective actions have since been implemented for all of these reported minor deficiencies pertaining to drug storage and control, and have since been corrected.

### 9. <u>Personnel Qualifications and Training - Was found to be acceptable</u>

We highly endorse the previous recommendation about animal users being very familiar with their protocols and documenting lab member training.

Suggestion to reward IACUC members for participation in IACUC activities (gameboard to allow people to advance, a thermometer to indicate progress, reward after X #review/site visits completed).

#### 10. Occupational Health & Safety of Personnel - Was found to be acceptable

EH&S is updating internal criteria to evaluate possible gaps in eye wash or emergency shower placement. The lab should be checking eyewashs weekly and facilities is responsible for annual checks of showers. Make sure there is documentation for each of these at site visits.

EH&S is in the process of evaluating spaces for effective scavenging of waste anesthetic gases and are getting groups to participate in exposure monitoring, as needed. IACUC can help encourage groups to participate by asking about exposure to make sure the proper protection is in place.

EH&S does noise monitoring to assess any concerns about exposure to loud noise but it is currently focused on areas with high noise environments or when concerns are raised by a lab group. It is recommended that they evaluate zebrafish vivaria where there can be a lot of background noise.

#### 11. Personnel Security - Was found to be acceptable

No suggestions for improvement

#### 12. Investigating Animal Welfare and Concerns - Was found to be acceptable

Regarding reporting and investigating animal welfare concerns, this sub-group feels the investigation team should be commended for a thorough investigation of all reported concerns without breaching the confidentiality of those reporting issues in every instance. Regarding non-compliance reports to the committee, this group recognizes the challenge our leadership has in preparing documents for each meeting, but encourages OAW and the AV to consider making reports available to the committee members at least 24 hours in advance of the scheduled meeting to allow committee members to preview the issue and be more prepared to engage in thoughtful discussion during the meeting. This would be especially beneficial for any non-compliances with a direct animal impact.

#### Summary of program review suggestions/improvement items

- Section 3. IACUC Regarding evaluation of the effectiveness of the training program, suggest a datadriven approach by surveying both IACUC members and 'clients' (i.e. PIs).
- Section 4. IACUC Protocol Review Endorses a previous recommendation made by the committee
  that the IACUC Genotyping Policy and/or the DCM Animal Identification SOP be updated to include
  statements about the use of toe clipping.
- Section 6. IACUC Training If online training seminars hosted by OLAW and NABR are being offered, we would like to see them made available to IACUC members.
- Section 9. Personnel Qualifications and Training Suggestion to reward IACUC members for participation in IACUC activities.
- Section 10. Occupational Health & Safety of Personnel Regarding noise monitoring, it is recommended that EH&S evaluate zebrafish vivaria where there can be a lot of background noise.
- Section 12. Investigating Animal Welfare Concerns Encourages OAW and the AV to consider making reports available to the committee members at least 24 hours in advance of the scheduled meeting to allow committee members to preview the issue and be more prepared to engage in thoughtful discussion during the meeting.

# Concurrence Letters

Concurrence Image – Jane Sullivan
Concurrence Image – Christina Cruzen
Concurrence Image - AB
Concurrence Image - AP
Concurrence Image - AW
Concurrence Image - DM
Concurrence Image - GL
Concurrence Image - GS
Concurrence Image - GW
Concurrence Image - JFI
Concurrence Image - JPVH
Concurrence Image - JT
Concurrence Image - KG
Concurrence Image - MB
Concurrence Image - MK
Concurrence Image - MRB
Concurrence Image - MRK

## **Minority Views - None**