

Memorandum to: Joe Giffels
From: Institutional Animal Care and Use Committee
Subject: Semiannual Report of the Program Review and Facility Inspection
Date: January 29, 2021

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.](#)):

On 11/1/20 Joe Giffels, Associate Vice Provost for Research Administration and Integrity, was appointed as the Institutional Official for Animal Welfare.

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:

- 51 protocols with prolonged restraint (bats, birds, fish, mice, pigs non-human primates, wild mammals)
- 10 protocols with housing at non-standard temperatures (5 mice, 2 rats, 3 zebrafish)

The following IACUC approved general departures remain in place

- **1 general cage height variance for infant non-human primates**
- **1 general cage floor-area variance, with added vertical space, for juvenile 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 L-shaped housing variance for NHPs to provide flexibility in configurations of combined cages**

Details are included in [Appendix C](#).

While not departures, the IACUC has also approved the following exceptions to its policies that implement PHS Policy, the AWA and the Guide:

- 12 protocols with cage size variances (6 for mice, 2 chicks, 4 rats)
- 9 protocols with wire bottom cages (5 mice, 4 rats)
- 48 protocols with weaning variances (46 mice, 2 rats)
- 2 protocols with a non-AVMA endorsed euthanasia method (1 small birds, 1 frogs)
- 36 protocols with multiple major surgeries (6 species)
- 11 protocols with other policy variances (8 mice, 1 rats, 2 mice and rats)

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): June through December 2020

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

Over the past six months, 12 adverse events or non-compliances were reported to the IACUC and, as required, to OLAW, AAALAC, or USDA. See [Appendix A](#) 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. They found the program to be strong, and identified no deficiencies. Specific comments and suggestions for improvement are detailed in [Appendix D](#). 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 2020

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

Over the past six months 197 deficiencies were identified during IACUC facility inspections or self-reported. None were considered significant. Counts by type are shown below.

Type	Minor	Significant	Type	Minor	Significant
Facility and Furnishings	33	0	Personnel Precautions	22	0
Sanitation	29	0	Feed	10	0
Husbandry	13	0	Environment	2	0

Equipment	32	0	Signage and Information	6	0
Drugs	23	0	Research Chemicals	5	0
Supplies	20	0	Husbandry	13	0
Protocol/Procedures	2	0	Signage/Information	6	0

188 have been resolved while 8 are pending corrective action. See [Appendix B](#) for deficiency details.

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

Reference Assurance: #000523

Most Recent AAALAC Site Visit: 05/31/2019 through 06/07/2019

Most Recent Full Accreditation issued: 11/01/2019

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

IACUC Members	concurrence	date
A.B. (Andrew)	Concur	1/28/2021
A.W. (Aaron)		
C.M. (Carolyn)	Concur	1/21/2021
D.M. (Dave)	Concur	1/25/2021
F.R.R. (Ric)	Concur	1/28/2021
G.S. (Garret)	Concur	1/25/2021
J.A. (Jacqui)	Concur	1/29/2021
J.M. (Jeanot)	Concur	1/25/2021
J.P.V.H. (Preston)	Concur	1/27/2021
J.S. (Jane)	Concur	1/26/2021

K.A.G (Kathryn)	Concur	1/25/2021
K.M.G. (Ken)	Concur	1/21/2021
K.M. (Kelly)	Concur	1/25/2021
K.S. (Kim)	Concur	1/22/2021
M.B. (Michelle)	Concur	1/25/2021
M.K. (Michael)	Concur	1/27/2021
S.L. (Steve)	Concur	1/25/2021
S.R.H. (Scott)	Concur	1/25/2021

Appendix A Deficiencies in the Institution's Animal Care and Use Program

Severity	Repeat?	Location	Deficiency and Corrective Action Plan	State	Date Complete
Significant	no	Vivarium	Tail Tipping at >28 days. Animal work was performed that was not in compliance with the protocol. All lab personnel must review what genotyping methods are approved on the protocol as well as review the Genotyping in Laboratory Mice policy.	Complete	8/19/2020
Significant	no	Vivarium	Exit from enclosure leading to injury. Whenever a cage is empty, locks will remain in place on the enclosure doors and feeders. Staff have been reminded to check all locks every time they enter or exit an enclosure. Extra locks are available in the ante-room area of the building.	Complete	7/30/2020
Significant	no	Vivarium	Mortality due to no access to water. Staff must check cages to ensure that each is fully seated in the rack such that water is flowing correctly.	Complete	9/9/2020
Significant	no	Vivarium	Mortality due to no access to food. Group must follow proper protocol for weaning mice and to double-check all new cages following weaning before leaving the room.	Complete	9/11/2020
Significant	no	Vivarium	No feed in cage. All animal care technicians in this facility will receive active re-training on conducting daily health checks with the DCM trainer.	Complete	9/28/2020
Significant	no	Vivarium	Protocol non-compliance. The researcher was retrained on tail tipping by a lab member, and was retrained on the IACUC's policy for Genotyping of Laboratory Mice. The PI was reminded that all animal work must be done in accordance with approved IACUC protocols and IACUC policies.	Complete	1/6/2021
Minor	no	Vivarium	Lighting controls were not functioning properly. Immediate action was taken to repair of automatic light monitoring report system and reconfigure lighting alarms to activate if lights don't come on or go off at the appropriate times. Additional independent safeguards have been established to ensure that lighting cycles in Brotman housing rooms remain as programmed until permanent solutions can be identified.	Complete	9/17/2020
Significant	yes	Vivarium	Mortality due to no access to water. All DCM husbandry staff are being re-trained in performing daily cage checks including how to confirm that cages are fully engaged in the rack. The research lab members completed the online refresher training on engaging cages in the rack. In the future, all lab members will double check that all cages are fully engaged in the racks before leaving the facility.	Complete	12/7/2020

Significant	yes	Vivarium	Mortality due to no access to water. The husbandry technicians that missed the improperly seated cage were retrained on identifying cages not completely engaged in a rack. Additionally, the Department of Comparative Medicine (DCM) has continued animal health check refresher training for all of the husbandry staff in the department. DCM facility staff have been completing the on-line training on checking cages for food and water.	Complete	12/15/2020
Significant	no	Vivarium	Protocol non-compliance. A checklist has been drafted by the lab outlining the steps for scheduling each procedure in their protocol. As part of this checklist, one of the steps will be to make sure that the timing and procedures are in accordance with the protocol. This will be checked by the scheduler and then confirmed by the PI prior to scheduling a procedure.	Complete	12/15/2020
Significant	yes	Vivarium	No Feed in cage. The technician for the room was retrained on the SOP for identifying cages with low or no food and took the on-line training lesson. The investigative group was retrained on proper cage set up including food and water and completed the online lesson as well.	Complete	1/5/2021
Significant	no	Vivarium	Use of unapproved caging. The PI acknowledged the mistake, immediately moved the mice back to standard housing, has been working with DCM Vet Services to design an appropriate cage set-up for this collection, and will submit an amendment for approval.	Complete	1/4/2021

Appendix B Deficiencies in the Institution's Animal Facility

Severity	Repeat?	Location	Concern Description	Correction Due Date	Date Complete
Minor	no	HSB: I-Wing Vivarium	I089V (corridor): Gouge on wall near bathing room. OAW to submit work order request for estimate.	3/31/2021	
Minor	no	HSB: I-Wing Vivarium	I073 (corridor): Paint chips on walls. OAW to submit work order request for estimate.	3/31/2021	
Minor	no	HSB: I-Wing Vivarium	I089 (main corridor): Paint chips on walls. OAW to submit work order request for estimate.	3/31/2021	
Minor	no	HSB: I-Wing Vivarium	I045: Paint chips on walls. OAW to submit work order request for estimate.	3/31/2021	

Minor	no	HSB Laboratory Spaces	H207: The fire extinguisher has not been serviced/replaced for several years based on the service tag on the extinguisher.	3/31/2021	
Minor	no	HSB: RR-Wing Vivarium	Elevator (#288): Spot on the floor inside the elevator near the door that is pitted and the floor starting to erode away. Not sure if it can be repaired easily, but that area will probably enlarge over time if not repaired. OAW to submit work order to evaluate.	3/31/2021	
Minor	no	Western Vivarium	325 (compound): Damaged ceiling needs repair.	3/31/2021	
Minor	no	Western Vivarium	Just outside of 328 (compound): Ceiling is damaged in central aisle just outside of compound 328, not as high a priority but should probably be repaired.	3/31/2021	
Minor	no	LSB Vivarium	Small carcass refrigerator outside B122 appears to be broken, needs to be repaired or replaced ASAP.	12/31/2020	11/25/2020
Minor	no	Brotman Vivarium	P166: Paint peeling in multiple areas on back wall of rooms. Should be repainted. DCM to submit work order request.	12/31/2020	11/20/2020
Minor	no	Guthrie Laboratory Spaces	351B: Electrical cord/plug wiring (x2 cords/plugs) that come from the light timer box are badly frayed in areas and need to be replaced.	12/31/2020	10/20/2020
Minor	no	Guthrie Laboratory Spaces	363: Damaged light switch. Please note there is no live animal work being done in 363; however, you have to pass through this room to get to room 363A that is approved for animal use. The main dual light switch to room 363 is damaged badly – one of the 'on/off' switch in the dual switch plate is broken out and it wasn't clear if there were live wires exposed inside the opening or not. The broken out 'on/off' switch needs to be repaired/replaced to avoid personnel injury/shock.	12/31/2020	11/13/2020
Minor	no	Guthrie Laboratory Spaces	342B: Moldy ceiling tiles need to be replaced. Please submit a work order for the repairs.	12/31/2020	11/16/2020
Minor	no	HSB Laboratory Spaces	J681H: Unsealed wood edge on two dollies. All unsealed wood needs to be sealed so water will bead on the surface. Lab to submit work order.	12/31/2020	11/10/2020
Minor	no	Western Vivarium	320 (trapping run): One of the bottom cages in the trapping run needs repair.	12/31/2020	11/23/2020

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Minor	no	Western Vivarium	Several rooms with cages where the underneath collection pan was upside down. Told it was for ease of cleaning, but it could be possible training issue as some rooms have a drain system that require cage pans to be placed flat side up.	12/31/2020	10/2/2020
Minor	no	Western Vivarium	240: Light out again after recent repair (sounds like there are some ongoing electrical issues throughout Western).	12/31/2020	9/8/2020
Minor	no	Western Vivarium	219: Noisy ceiling fan in back of room needs repair.	12/31/2020	10/27/2020
Minor	no	Western Vivarium	308: Light out. Please repair.	12/31/2020	9/8/2020
Minor	no	Western Vivarium	219: All animals have access to feed but some cages missing feeder boxes.	12/31/2020	12/31/2020
Minor	no	Western Vivarium	329 (trapping run): Upper cage at end of run needs repair.	12/31/2020	12/21/2020
Minor	no	Western Vivarium	212 (Dirty cagewash): Part of ceiling has been patched, but not painted and some peeling paint noted in other areas of the ceiling.	12/31/2020	12/28/2020
Minor	no	Western Vivarium	329: Paint chipped off on some of the walls.	12/31/2020	12/11/2020
Minor	no	HSB Laboratory Spaces	NN143G: Mice in cages transported on a cart from T-Wing to N143G, the control room where animals are injected with anesthetic. The room has people working at the control panels for the PET generator. No one was enrolled in the AUMS program. Please confirm personnel in NN143G are enroll in AUMS.	12/18/2020	11/23/2020
Minor	no	HSB Laboratory Spaces	NW141A: Sharps containers with 3H contaminated sharps on counter. Please consult with EH&S regarding the disposal of radioactive sharps.	12/18/2020	11/23/2020
Minor	no	HSB Laboratory Spaces	NW141A: Isoflurane machine is broken as reported by Host. Please post a sign stating "Do Not Use Until repaired." No F/Air canisters in sight or could be found.	12/18/2020	12/18/2020
Minor	no	HSB Laboratory Spaces	NW141A: Biosafety cabinet cluttered. Please clean the biosafety cabinet.	12/11/2020	11/23/2020
Minor	no	HSB Laboratory Spaces	NW141A: All lab personnel on the protocol must read and understand the protocol.	12/11/2020	11/23/2020

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Minor	no	HSB: I-Wing Vivarium	I073 (corridor): Anesthesia cart used for transporting animals in this corridor had F/AIR canister that was on its side – canister should be upright so suggest using Velcro or some other material to attach the canister to the cart itself so it can remain upright.	11/30/2020	11/23/2020
Minor	no	Guthrie Vivarium	369C: Metal wheeled cart w/2 shelves. The bottom shelf was very dirty – it had rodent bedding all over it and what appeared to be a crumpled up drape (could not tell if it was used or not). Shelf needs to be cleaned and drape disposed of.	11/30/2020	11/16/2020
Minor	no	Guthrie Vivarium	368: White lights were off in this room (one red bulb was very dim) and no light switch could be found. Please have Facilities investigate, to be sure this room's lights are cycling on and off properly, and notification is sent if lights do not turn on or off when programmed to turn on or off.	11/30/2020	11/16/2020
Minor	no	HSB Laboratory Spaces	H073: Floors were very dirty; requested that the host ask his departmental administrator to contact Facilities Services to schedule a time to have the floors cleaned and waxed.	11/30/2020	11/13/2020
Minor	no	HSB: K-Wing Vivarium	K015, K019: The flooring heading into the cagewash area was uneven (potential tripping hazard). OAW to submit work order for estimate.	11/30/2020	11/6/2020
Minor	no	HSB Laboratory Spaces	K081: Anesthesia machine not calibrated (exp. AUG 2020). Please post a sign stating "Do Not Use Until Calibrated." Group needs to have the instrument calibrated before it is used again.	11/20/2020	9/25/2020
Minor	no	ARCF (Animal Research & Care Facility)	B152A: Isoflurane vaporizer belonging to PI group appears to have last been calibrated 4/16/19 based on label. Please label "Do Not Use Until Calibrated." It is overdue for calibration, and should be calibrated ASAP.	11/20/2020	10/22/2020
Minor	no	HSB Laboratory Spaces	NW141A: Eyewash log is out of date. Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	11/20/2020	10/26/2020
Minor	no	HSB Laboratory Spaces	H507: More unlabeled secondary containers. ALL secondary containers should have contents labeled, along with date made up/expiration date as appropriate.	11/20/2020	11/13/2020
Minor	no	HSB Laboratory Spaces	BB857: 11.3mL of pentobarbital listed in drug log was not present in the drug safe. Lab needs to review all of	11/20/2020	11/5/2020

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			their notes to determine what happened to the missing 11.3mL and update their drug log.		
Minor	no	HSB Laboratory Spaces	H502: MS-222 is not being weighed in fume hood and MS-222 bottles are not labeled 'open only in fume hood' (or similar). Refer to current SOP for MS-222 on OAW webpage to update training and MS-222 bottle labels.	11/20/2020	11/13/2020
Minor	no	HSB Laboratory Spaces	H506: Unlabeled spray and squeeze bottles. ALL secondary containers, including bottles and tubes, should have contents labeled, along with date made up/expiration date as appropriate.	11/20/2020	11/13/2020
Minor	no	HSB Laboratory Spaces	I501: Posted papers should be in plastic sleeves or laminated since paper is not sanitizable.	11/6/2020	11/6/2020
Minor	no	HSB Laboratory Spaces	F431 (drug storage): Ketoprofen (used for surgical analgesia) is not pharmaceutical grade. Use of pharmaceutical grade injectable ketoprofen is expected per IACUC policy.	11/6/2020	10/29/2020
Minor	no	HSB Laboratory Spaces	H428: Arena areas (for temporary housing of rats) should be cleaned of stray bedding after use.	11/6/2020	11/10/2020
Minor	no	Roosevelt Vivarium	Main Hallway inside vivaria to Housing/Use Rooms: Extremely strong odors, likely mouse allergens, present. Recommend that air sampling analysis be completed as necessary to ensure occupational health safety for husbandry team and research teams.	10/31/2020	10/5/2020
Minor	no	Western Fisheries Research Center	D119D: Large crack in the ceiling that needs to be repaired.	10/31/2020	11/6/2020
Minor	no	SLU 3.2 Laboratory Spaces	F745: Overhead shelving (x2 shelves) in F745 is not earthquake safe (i.e., it does not have the necessary guard rail/lip to prevent stored items from falling/slipping off in the event of an earthquake. Several media bottles with labeled solutions were present and an Occupational Health hazard. This issue needs to be corrected for safety reasons (Occupational Health) and not out the PI's budget.	10/31/2020	9/21/2020
Minor	no	Western Vivarium	218: All animals have access to feed but some cages missing feeder boxes.	10/31/2020	10/31/2020
Minor	no	Benson Hall	211: Gas tanks (CO2 and O2) are secured with a single chain. Tanks must be secured with a second lower set of chain to ensure the tank cannot	10/30/2020	10/13/2020

slide forward or tip over.					
Minor	no	ARCF (Animal Research & Care Facility)	B203: Expired bag of fluid (LRS) in refrigerator, should be discarded. Also, was labeled "open 8/8/19," but was not labeled with a use-by date based on opening date (only had the expiration date pre-printed on the bag). Bags should be used promptly once opened, if used for injection.	10/30/2020	10/7/2020
Minor	no	ARCF (Animal Research & Care Facility)	B160: This is a procedure room that had an expired Clorox. Please discard.	10/30/2020	10/7/2020
Minor	no	ARCF (Animal Research & Care Facility)	B208: Mop should be hung up on mop holder.	10/30/2020	10/7/2020
Minor	no	ARCF (Animal Research & Care Facility)	B213A: Room does not seem to have enough hangers to hang brooms/swiffers on the wall, some are resting on the floor.	10/30/2020	10/30/2020
Minor	no	ARCF (Animal Research & Care Facility)	B203: 2 bottles of research-grade 0.9% saline (from G Biosciences). Not clear whether this is being used for injections in animals or for external or non-animal use. Saline used for injection should be pharmaceutical grade.	10/30/2020	10/7/2020
Minor	no	ARCF (Animal Research & Care Facility)	B144B: Food container label is handwritten and is incomplete. Husbandry staff should replace it with a clearer label.	10/30/2020	10/7/2020
Minor	no	ARCF (Animal Research & Care Facility)	B152A: 2 F/AIR canisters were not labeled with a starting weight/any notations re: use (it's possible they are new?). Canisters used must be weighed before usage and logged indicating the number of hours used.	10/30/2020	10/28/2020
Minor	no	ARCF (Animal Research & Care Facility)	B271 (Dirty Cagewash): Expired NHP exposure scrub kit on the DCM side. DCM is normally responsible to requesting/replacing the kits on the DCM side.	10/30/2020	10/9/2020
Minor	no	ARCF (Animal Research & Care Facility)	B151D: Cleaning Log not filled out.	10/30/2020	10/15/2020
Minor	no	ARCF (Animal Research & Care Facility)	B151B: Metro rack cleaning record – signatures/dates aren't readable/legible.	10/30/2020	10/13/2020
Minor	no	ARCF (Animal Research & Care Facility)	Truck: The temperature/humidity probe was missing.	10/30/2020	10/15/2020
Minor	no	ARCF (Animal Research & Care Facility)	B265 (Clean Cagewash): Cleaning Log near entrance – daily and monthly tasks not completed signed off for multiple months.	10/30/2020	10/12/2020

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Minor	no	ARCF (Animal Research & Care Facility)	B265 (Clean Cagewash): Rack Washer Emergency Exit Log – No supervisor sign off for 3rd quarter (July/Aug/Sept).	10/30/2020	10/12/2020
Minor	no	ARCF (Animal Research & Care Facility)	B200A (Corridor - dog play hallway): Open bag of treats not clearly labeled across B207.	10/30/2020	10/8/2020
Minor	no	ARCF (Animal Research & Care Facility)	B141B: PAM unit was due for service in August 2020.	10/30/2020	10/22/2020
Minor	no	ARCF (Animal Research & Care Facility)	B151E: Several pairs of expired sterile gloves – asked staff to sort through draw to dispose of the expired items.	10/30/2020	10/13/2020
Minor	no	ARCF (Animal Research & Care Facility)	B141C: Animal and room care log – no start date listed on sheet.	10/30/2020	10/19/2020
Minor	no	ARCF (Animal Research & Care Facility)	B279 (Kiem): Rapamycin in freezer had preparation date 10/23/2019 and a 6 month expiration date of 4/23/2020. As this compound was frozen, it doesn't need a 6 month expiration from the time of preparation, but perhaps a 6 month expiration once thawed.	10/30/2020	10/19/2020
Minor	no	Arizona Breeding Center	AA202: 2020 anesthesia machine service record not in binder. Action: add anesthesia service record to binder.	10/30/2020	10/30/2020
Minor	no	Arizona Breeding Center	AA141: Sanitization tag on cage lift expired. Action: equipment not utilized and to be removed from circulation and put into storage.	10/30/2020	10/30/2020
Minor	no	Guthrie Laboratory Spaces	351B (Kim): New carboy being used for potable water needs to be labeled with contents.	10/30/2020	10/13/2020
Minor	no	Guthrie Laboratory Spaces	418 (Cagewash clean): Lots of standing water on the floor probably from the rack washer and nowhere for the water to drain. This could be hazardous so how can this be prevented?	10/30/2020	10/12/2020
Minor	no	Guthrie Laboratory Spaces	354: Refrigerator has expired lidocaine and rimadyl that should be discarded. Also, has various jars/vials of liquid that are not labeled completely with the following information: name of the compound, concentration, date of preparation and expiration date. If just for in vitro use, then it should be labeled as not for use in animals.	10/30/2020	11/2/2020
Minor	no	Guthrie Laboratory Spaces	052: Expired surgical gloves need to be discarded.	10/30/2020	10/13/2020

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Minor	no	Guthrie Laboratory Spaces	028D: Expired surgical gloves need to be discarded.	10/30/2020	10/9/2020
Minor	no	Guthrie Laboratory Spaces	342B: Expired bottle of Clidox. Please discard.	10/30/2020	10/8/2020
Minor	no	Guthrie Vivarium	364: Second restraint on gas tank was present, but not secured on one of three tanks; please be sure BOTH chains/straps are secured on all three tanks.	10/30/2020	11/16/2020
Minor	no	Guthrie Vivarium	369C: Found one bottle of expired Mapap Liquid (i.e., Pain reliever) (exp 5/2020). DCM host indicated that this belonged to a PI group.	10/30/2020	11/16/2020
Minor	no	Guthrie Vivarium	369C: Low batteries in both red filter flashlights in this room (room is on a reverse light cycle and under dim red light during visit). The flashlights assigned to this room were so low emitting that inspectors couldn't see the animals for general health observation, or cage water bottles, etc.	10/30/2020	11/16/2020
Minor	no	HSB Laboratory Spaces	K155: Eyewash testing and logging needs to be set up for this space.	10/30/2020	10/19/2020
Minor	no	HSB Laboratory Spaces	K155: No first aid kit in room.	10/30/2020	10/19/2020
Minor	no	HSB Laboratory Spaces	K155: All bare paper posted on walls needs to be laminated or encased in a plastic sleeve.	10/30/2020	10/19/2020
Minor	no	HSB: T-Wing Vivarium	T129 (Hofstetter): Isoflurane vaporizer was due for service on 3/20. Please post a sign stating "Do Not Use Until Calibrated." Arrange to have the vaporizer serviced ASAP or decommission for use.	10/30/2020	9/9/2020
Minor	no	HSB Laboratory Spaces	J681H: Fabric chair in room removed during visit.	10/27/2020	10/27/2020
Minor	no	HSB Laboratory Spaces	H227A: One gas tank was unchained, double chained during visit.	10/27/2020	10/27/2020
Minor	no	HSB Laboratory Spaces	H225A: Expired medium discarded during visit.	10/27/2020	10/27/2020
Minor	no	HSB Laboratory Spaces	H431: Sterile surgical gloves expired. Corrected at time of site visit (disposes of).	10/22/2020	10/22/2020
Minor	no	HSB Laboratory Spaces	H428A: Expired Crunch berries – discarded at time of site visit.	10/19/2020	10/19/2020

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Minor	no	HSB Laboratory Spaces	K081: Several packs of sterile surgical gloves expired (exp. 05/2020). Group needs to discard and replace with non-expired sterile surgical gloves before performing any future survival surgeries.	10/16/2020	9/25/2020
Minor	no	Arizona Breeding Center	AA102: 2 suture instrument packs were not labeled with the sterilization or expiration dates. Immediately corrected- packs were pulled from circulation for reesterilization.	10/15/2020	10/15/2020
Minor	no	Arizona Breeding Center	AA103: Balance tubes for the centrifuge were not labeled. Corrected immediately- tubes labeled.	10/15/2020	10/15/2020
Minor	no	I-Wing Laboratory Spaces	I700M (just outside door): Expired Eye Rinse in Bite Kit. Please discard and replace.	10/9/2020	10/1/2020
Minor	no	I-Wing Laboratory Spaces	I445: Recapped needle found in biohazard container far away the one recapper in the room. Please remind everyone in the group not to recap needles unless using a recapper.	10/9/2020	9/22/2020
Minor	no	I-Wing Laboratory Spaces	I441: Expired antibiotic in first aid kit. Please discard and replace.	10/9/2020	10/2/2020
Minor	no	I-Wing Laboratory Spaces	WaNPRC I361: Expired Scrub in Bite Kit. Please discard and replace.	10/9/2020	9/18/2020
Minor	no	I-Wing Laboratory Spaces	I445A: Something has leaked in the Bite Kit making everything wet. Please replace with dry, intact Bite Kit.	10/9/2020	9/18/2020
Minor	no	Guthrie Laboratory Spaces	351C: Cloth chair needs to be removed from room (corrected during visit).	10/8/2020	10/8/2020
Minor	no	Guthrie Laboratory Spaces	028D: Expired betadine/EtOH solution (Jan 2020). Discarded/corrected during visit.	10/8/2020	10/8/2020
Minor	no	ARCF (Animal Research & Care Facility)	B245: Expired drug – disposed at time of inspection.	10/6/2020	10/6/2020
Minor	no	ARCF (Animal Research & Care Facility)	B201: Expired drug – disposed at time of inspection.	10/6/2020	10/6/2020
Minor	no	Friday Harbor Laboratories	Tank outside of Lab 8: One large concrete circular is currently housing (4) dogfish for use with Summers UW IACUC protocol. Tank is not currently labeled with anything except contact information. Tank MUST be labeled with a complete tank card and must have an animal care log present for the individuals to use when caring for these animals for the duration of their stay at UW FHL.	10/2/2020	9/22/2020

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Minor	no	HSB: I-Wing Vivarium	Feed & Bedding storage: SOP posted on wall says the supervisor should be notified if temp goes above 70 degrees. The Daily log indicates a high temperature of 73.4 degrees for the past 3 days, but there is no indication that anyone was notified. Please confirm how notification of high temperature is documented.	10/2/2020	9/18/2020
Minor	no	HSB: I-Wing Vivarium	I051, I053 (Area outside of surgery rooms): Broken fluid warmer needs cleaning on the inside – not planning to use so should attach a "Do Not Use" sign or remove.	10/2/2020	10/1/2020
Minor	no	HSB: I-Wing Vivarium	I053: Paper on the walls is not sanitizable – should be removed or encased in plastic sleeves.	10/2/2020	10/1/2020
Minor	no	HSB: I-Wing Vivarium	I455 (Investigator lab): Expired H2O bottle found during visit (moved from cabinet to counter).	10/2/2020	10/2/2020
Minor	no	ARCF (Animal Research & Care Facility)	B162: There were three expired bottles of Clorox – which were disposed immediately.	10/2/2020	10/2/2020
Minor	no	Brotman Laboratory Spaces	347: Shared lab and there is an isoflurane machine that needs to have its annual check. Equipment belongs to the Regnier Lab. Please label "Do Not Use Until Calibrated" and contact Summit Anesthesia Service Corp at 1-866-805-7016 to re-calibrate the vaporizer.	10/2/2020	10/7/2020
Minor	no	I-Wing Laboratory Spaces	I013 Suite: Drug log needs to be updated to reflect expired drugs that have been returned (group forgot to log). Group will request copy of submitted paperwork from EH&S, to confirm their actions and correct their log.	10/2/2020	9/14/2020
Minor	no	Western Vivarium	223, 303: Expired Scrub in kit. Please discard.	10/2/2020	9/17/2020
Minor	no	Western Vivarium	Transport Van: August transport records could not be located this morning.	10/2/2020	10/2/2020
Minor	no	Western Fisheries Research Center	D119D: Bottles of bleach and ethanol need to be better labeled (need made on date).	9/25/2020	8/25/2020
Minor	no	Western Fisheries Research Center	D119A: Two ceiling vents need to be cleared of dust.	9/25/2020	8/25/2020
Minor	no	Western Fisheries Research Center	W107 (Autoclave room): Bottle of iodine sitting next to the autoclave needs to be discarded.	9/25/2020	8/25/2020

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Minor	no	Western Fisheries Research Center	D119F: Bottle of UW sterilized water needs better labeling (made on date).	9/25/2020	8/25/2020
Minor	no	Western Fisheries Research Center	D119D: Unlabeled container with what appears to be iodine needs to be addressed.	9/25/2020	8/25/2020
Minor	no	Western Fisheries Research Center	D119A: Peeling yellow tape with the inscription "hose rack" should be removed from the wall.	9/25/2020	8/25/2020
Minor	no	Western Fisheries Research Center	Tank 15-1 has a slow leak and needs to be addressed (i.e., the salmon inside moved); staff were aware of this issue, which is scheduled to be addressed by September 14.	9/25/2020	9/1/2020
Minor	no	Western Fisheries Research Center	D119B: Tape connecting one of the fluorescent lights to the ceiling is coming loose.	9/25/2020	8/25/2020
Minor	no	Brotman Vivarium	C31 (Smoke room, not in regular use): Biosafety hood has not been certified in a while, there was a sign in the room stating that it should not be used, but that sign should be hung up on the cabinet itself.	9/18/2020	8/13/2020
Minor	no	HSB: T-Wing Vivarium	T133: Virkon spray bottle had yellow sticker with 4/10 written on it, but no clear expiration date. Please add expiration date.	9/18/2020	9/10/2020
Minor	no	HSB: T-Wing Vivarium	T115 (Perlmutter): Rat behavioral boxes had stool in the bedding. Are the animals put back in the same cages every time? How often are those boxes cleaned?	9/18/2020	8/28/2020
Minor	no	HSB: T-Wing Vivarium	T135: There are a number of electronic cords that are laying on the floor underneath the sink. This should be removed from the floor in order to facility thorough cleaning of the room when needed.	9/18/2020	10/5/2020
Minor	no	HSB: T-Wing Vivarium	T131: Some rat enrichment plastic tubes were very chewed up and about 1/3 of normal length so that very little of a rats body could fit in the tube. Many of the nylabones were down to short nubs. These worn enrichment devices should be discarded, and these devices should be assessed and discarded more frequently.	9/18/2020	9/10/2020
Minor	no	I-Wing Laboratory Spaces	I553: Expired sutures discarded during visit.	9/18/2020	9/18/2020
Minor	no	Northwest Fisheries Science Center	Wet lab: Dusty vents need to be cleaned.	9/18/2020	8/25/2020

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Minor	no	Portage Bay Building	102K: Expired materials (surgical gloves, biopsy punches) in a drawer that were left behind by previous users of the room. Group is not using them. Group should either get rid of these expired items or clearly label the drawer/materials as expired, not to be used (unless approved for a terminal procedure).	9/18/2020	8/25/2020
Minor	no	SLU 3.1 Laboratory Spaces	E685: CO2 euthanasia procedure station does not have updated signage to reflect the new 2020 AVMA Guidelines on CO2 euthanasia. New signage must replace old signage and flow meter should be replaced as/if necessary.	9/18/2020	8/18/2020
Minor	no	SLU 3.1: 0 Level Vivarium	E073 (Clean Cagewash): Training log sheet for Cagewash Emergency Procedures posted on the outside of the cagewash with signatures of who was trained each quarter. There was a log sheet for 2019, but no log for 2020.	9/18/2020	9/11/2020
Minor	no	HSB: RR-Wing Vivarium	RR050: Surgical gloves and 3 other items expired – discarded during the visit.	9/14/2020	9/14/2020
Minor	no	HSB: RR-Wing Vivarium	RR142: One item expired – discarded during the visit.	9/14/2020	9/14/2020
Minor	no	Benson Hall	Any paper towels used during the procedure should be discarded at the end of the experiment.	9/11/2020	8/18/2020
Minor	no	Benson Hall	All posted paper (including Post-It notes) should be in plastic sleeves or laminated.	9/11/2020	8/18/2020
Minor	no	Brotman Vivarium	P163 (Vet Services surgery): Expired sodium bicarbonate (7/2020). Please discard.	9/4/2020	8/14/2020
Minor	no	Brotman Vivarium	C33: Cage rack is scheduled to be changed out on 7/12/20, but still has not. They said it was expected to happen soon, but I didn't quite understand what the delay was. This should be corrected.	9/4/2020	8/19/2020
Minor	no	Brotman Vivarium	P163 (Vet Services surgery): Some open fluids (e.g., bottles of sterile water) were not labeled with date opened and date expired based on use and opening date.	9/4/2020	8/14/2020
Minor	no	SLU 2 Laboratory Spaces	S243: Empty CO2 tank was not secured. Recommend to remove the tank or secure it with two chains.	9/4/2020	8/14/2020
Minor	no	HSB: I-Wing Vivarium	I053: Post-it note on the wall – removed during the visit.	9/3/2020	9/3/2020

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Minor	no	HSB: I-Wing Vivarium	I045: Bottle of chemicals stored on shelf above the tub are that could fall off – removed during visit.	9/3/2020	9/3/2020
Minor	no	Western Vivarium	234: 1 expired vial found - discarded at time of visit.	9/2/2020	9/2/2020
Minor	no	HSB: 6th Floor Vivarium	G615 (Mice housing room): One of the ceiling lights appears to be burnt out. Facility Supervisor explained the Bosma/Moody Lab requested through Facilities Services to have those lights turned off to make the room dimmer. Suggested placing a sign in the room to clarify why the lights are set this way so that no one comes into the room (unaware of the light arrangement) thinking those particular set of lights are burnt out.	8/28/2020	8/13/2020
Minor	no	HSB: 6th Floor Vivarium	C615 (Procedure room used for imaging): Inside the room, there is a rust spot on the wall where the railing is located. The rust appeared to have accumulated over time when there was a water leak originating from a water pressure overflow pipe. Needs to be cleaned and rust removed.	8/28/2020	8/13/2020
Minor	no	HSB: K-Wing Vivarium	I012E: One rat cage no longer fully translucent on front side (etched/frosted), should be replaced.	8/28/2020	7/24/2020
Minor	no	HSB: K-Wing Vivarium	K015, K019: Cagewash should have emergency instruction sticker on both sides, currently only on one side.	8/28/2020	8/14/2020
Minor	no	SLU 2 Laboratory Spaces	S346: Confusion with Facilities inspecting showers and eyewash stations annually. Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	8/28/2020	8/13/2020
Minor	no	SLU 2 Laboratory Spaces	S462: Lab stated the eyewash log is on the computer. The eyewash log on the wall showed dates from last year. It is best to place a new log on the wall or remove it entirely if the log is kept on the computer.	8/28/2020	8/15/2020
Minor	no	SLU 3.1: 0 Level Vivarium	E029: Rodent odor and cage change is scheduled 4 days from site visit on 8/25, 8/26.	8/28/2020	8/28/2020
Minor	no	SLU 3.1: 7 Level Vivarium	E739: Foam chair surface is no longer sound, sealed and (easily) sanitizable; replace with a non-cloth chair.	8/28/2020	8/28/2020
Minor	no	SLU 3.1: 7 Level Vivarium	E737A: Foam chair is starting to fail (some very small cracks in foam surface).	8/28/2020	8/28/2020

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Minor	no	SLU 3.1: 7 Level Vivarium	E729: Foam chair surface is no longer sound, sealed and (easily) sanitizable; replace with a non-cloth chair.	8/28/2020	8/28/2020
Minor	no	SLU 3.1: 7 Level Vivarium	E739A: Foam chair surface is no longer sound, sealed and (easily) sanitizable; replace with a non-cloth chair.	8/28/2020	8/28/2020
Minor	no	Portage Bay Building	102K: Disposed of a syringe of diluted ketoprofen that was made 6/5/20 and not labeled with an expiration date at time of site visit. Group should label diluted drugs with the date diluted and the date of expiration, which is typically one month after dilution. Recommend use of sterile vials over syringes if drug will be used on multiple days prior to expiration.	8/25/2020	8/25/2020
Minor	no	CHDD Laboratory Spaces	056D (Stone): 2 cloth chairs need to be replaced with sanitizable ones.	8/21/2020	7/21/2020
Minor	no	HSB Laboratory Spaces	B160: Eyewash log is present. The eyewash in the room was leaking yesterday and the lab submitted a request to Facilities to have it checked. Group has submitted work order to Facilities Services.	8/21/2020	7/24/2020
Minor	no	HSB: 6th Floor Vivarium	E610 (Hernandez): Three large bleach baths containing aquatic tanks soaked in bleach. The date on the tanks was 1/20/20. Based on the signage, tanks have been soaked in there since April 2020 and not very clear with dates. Lab Tech confirmed group did not place items into the bleach bath and doesn't know who did it despite the tanks belonging to the group. We might need to contact Dr. GS to help determine which groups working with aquatics left their items soaking in the bleach baths.	8/21/2020	7/16/2020
Minor	no	HSB: K-Wing Vivarium	K018F: Expired bottle of Clidox. Please discard.	8/21/2020	7/28/2020
Minor	no	HSB: K-Wing Vivarium	K030 (Bruchas, Stuber): Plastic bottle of Baxter 0.9% saline "for irrigation," labeled with open date 5/27/20, but there is no labeled expiration date.	8/21/2020	8/4/2020
Minor	no	HSB: K-Wing Vivarium	I015N (Steinmetz): Syringe of lidocaine in refrigerator labeled "0.2 mg/ml," not labeled with date made or date of expiration.	8/21/2020	8/21/2020
Minor	no	HSB: K-Wing Vivarium	K017B (Weinstein): Opened saline bottle not labeled with date of first use or expiration date.	8/21/2020	8/12/2020

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Minor	no	HSB: K-Wing Vivarium	K017B (Weinstein): Expired betadine, silk suture, surgical gloves.	8/21/2020	8/12/2020
Minor	no	HSB: K-Wing Vivarium	K009: Sunflower seeds should be labeled with contents and probably with a use by date.	8/21/2020	7/23/2020
Minor	no	HSB: K-Wing Vivarium	K030 (Phillips): Second large bottle labeled with open date 1/12/20, and a small bottle of saline that has been used and has expired per the date written on the bottle. Fluids used in animals should be labeled with the open and expiration dates (generally one month from opening).	8/21/2020	7/22/2020
Minor	no	HSB: K-Wing Vivarium	I015C (Chavkin): Different drawer has a Hamilton syringe labeled "microbeads," no date created/expiration.	8/21/2020	8/11/2020
Minor	no	HSB: K-Wing Vivarium	K018B (Phillips): Container has what looks like sucrose pellets, but is not labeled with contents, is labeled with expiration date. Should be labeled with what it contains in addition to expiration date.	8/21/2020	7/29/2020
Minor	no	HSB: K-Wing Vivarium	I012G: Expired bottle of Clidox. Please discard.	8/21/2020	7/24/2020
Minor	no	HSB: K-Wing Vivarium	I015F: Eyewash not up-to-date. Eyewash station requires flushing once per week and must be recorded in a log.	8/21/2020	7/24/2020
Minor	no	HSB: K-Wing Vivarium	K017B (Weinstein): Open Hamilton syringe with liquid contents, not labeled with contents or expiration date.	8/21/2020	8/21/2020
Minor	no	HSB: K-Wing Vivarium	I015N: Expired bottle of Clidox. Please discard.	8/21/2020	7/24/2020
Minor	no	HSB: K-Wing Vivarium	K030 (Bruchas, Stuber): Styrofoam boards/needles stored under hood are soiled with dried blood. These should be disposed of and replaced with something sanitizable or single use/disposable.	8/21/2020	8/4/2020
Minor	no	HSB: K-Wing Vivarium	I015E: Eyewash log was not present. Eyewash station requires flushing once per week to protect personnel from potential build-up of contaminants in the water line and must be recorded in a log.	8/21/2020	7/24/2020
Minor	no	HSB: K-Wing Vivarium	I015N (Steinmetz): Bag of 0.9% sodium chloride opened 6/24/20 in refrigerator, not labeled with date of expiration.	8/21/2020	8/21/2020
Minor	no	HSB: K-Wing Vivarium	K017B (Weinstein): Food/bedding debris in hood on heating pad, should be cleaned.	8/21/2020	8/12/2020

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Minor	no	HSB: K-Wing Vivarium	K017B (Weinstein): Isoflurane induction chamber dirty (feces, bedding), needs to be cleaned.	8/21/2020	8/12/2020
Minor	no	HSB: K-Wing Vivarium	K017B (Weinstein): Expired alcohol prep pads in two different locations (drawer and storage bin).	8/21/2020	8/12/2020
Minor	no	HSB: K-Wing Vivarium	K030 (Phillips): Small guillotine on counter requires maintenance – movement is not smooth. Was unable to find a guillotine maintenance log and group not present at visit.	8/21/2020	8/4/2020
Minor	no	HSB: K-Wing Vivarium	I015C (Chavkin, file drawer labeled "Harrison"): Hamilton syringe taped to laminated paper, contains fluid, not labeled with contents/expiration.	8/21/2020	8/4/2020
Minor	no	HSB: K-Wing Vivarium	K030 (Bruchas, Stuber): Secondary container of 0.9% saline in glass bottle, not clear whether it is used in animals or not. Not labeled with date made/expiration (only a concern if used in animals).	8/21/2020	8/4/2020
Minor	no	HSB: K-Wing Vivarium	K024E: Two of the large gas tanks do not have lower chains secured (chains are present).	8/21/2020	7/23/2020
Minor	no	Roosevelt Laboratory Spaces	264: CO2 station not have updated signage to reflect the new 2020 AVMA Guidelines on CO2 euthanasia. New signage must replace old signage and flow meter should be replaced as/if necessary.	8/21/2020	7/22/2020
Minor	no	SLU 3.1: 7 Level Vivarium	E737: Unlabeled spray bottle. Please label the contents in bottle.	8/21/2020	8/7/2020
Minor	no	SLU 3.1: 7 Level Vivarium	E757A: Expired PBS. Please discard.	8/21/2020	8/7/2020
Minor	no	Manchester Field Station	In separate feed room for Steelhead/Rainbow trout, feed bags were stacked, in some cases, too close towards then back wall even though pallets were adequately spaced from the wall. Inspector explained to host why it is important to maintain a 6 inch space from the feed bag and the wall to easily and quickly visually evaluate for the presence of damaged feed bags or the presence/evidence of vermin so that issues can be quickly addressed to prevent feed adulteration. Host will move the bags stacked too close away from the wall immediately.	8/19/2020	8/19/2020
Minor	no	Western Fisheries Research Center	D119F: Unlabeled vial in the fridge; was informed that the vial contained algae and staff disposed on the vial on site.	8/19/2020	8/19/2020

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Minor	no	Northwest Fisheries Science Center	Peeling red tape on the dimmer switch needs to be removed (done by the PI during my visit)	8/19/2020	8/19/2020
Minor	no	Roosevelt Vivarium	254: Some mouse cages without "red" dot while majority (>90%) had "red" dot. After inquiring, it is still unclear why some cages have a red dot and others do not since they all have water bottles. Please provide an explanation as inspectors were under the impression the painted dots were on caging to indicate which facility they were to be used at and not mixed up between facilities. Clarification needed.	8/14/2020	8/20/2020
Minor	no	CHDD Vivarium	076A: Clidox in carboy next to sink is not labeled with dilution.	8/14/2020	8/5/2020
Minor	no	Foegen Laboratory Spaces	N423D: CO2 euthanasia set-up, and posted guidelines, need to be updated to be consistent with new AVMA guidelines.	8/14/2020	8/7/2020
Minor	no	Roosevelt Laboratory Spaces	192 (Microscope Room): Vinyl lab chair in this room is badly damaged. The vinyl seat cushion and vinyl seat back were split apart so badly there was more cushion exposed than vinyl. The chair is not sanitizable and will need to be replaced as it is too badly damaged to be repaired.	8/14/2020	7/28/2020
Minor	no	Roosevelt Laboratory Spaces	253: Lab chair is slightly damaged (scuffed up in areas) on the edges of the back seat rest to the point of it not being sealed properly for sanitizing purposes. Recommend replacing or repairing as necessary.	8/14/2020	8/13/2020
Minor	no	Roosevelt Laboratory Spaces	192: One bag of fish food (dry flakes) in a clear plastic bag inside a small refrigerator (4C) that was not labeled with the contents or expiration date. Food needs to be labelled properly etc.	8/14/2020	7/28/2020
Minor	no	Brotman Vivarium	P167A: Expired diet gel (6/20) in Frevert lab box, discarded at time of site visit.	8/13/2020	8/13/2020
Minor	no	CHDD Laboratory Spaces	175 (Stone): Bare paper signage needs to be encased in plastic sleeves or laminated.	8/7/2020	8/5/2020
Minor	no	ARCF (Animal Research & Care Facility)	N035: Concentration not marked on Clidox bottle; please record both the concentration AND the date made up.	8/7/2020	7/15/2020
Minor	no	ARCF (Animal Research & Care Facility)	N043: Concentration not marked on Clidox bottle; please record both the concentration AND the date made up.	8/7/2020	7/15/2020

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Minor	no	ARCF (Animal Research & Care Facility)	N047: Concentration not marked on Clidox bottle; please record both the concentration AND the date made up.	8/7/2020	7/15/2020
Minor	no	ARCF (Animal Research & Care Facility)	N039B: Concentration not marked on Clidox bottle; please record both the concentration AND the date made up.	8/7/2020	7/16/2020
Minor	no	ARCF (Animal Research & Care Facility)	N039A: Concentration not marked on Clidox bottle; please record both the concentration AND the date made up.	8/7/2020	7/17/2020
Minor	no	ARCF (Animal Research & Care Facility)	N046: One of the cabinet doors could not be closed—may be broken or just an overfilled cabinet; please fix so cabinet door can be completely closed.	8/7/2020	8/4/2020
Minor	no	ARCF (Animal Research & Care Facility)	N039A: Clidox expired. Please discard.	8/7/2020	7/16/2020
Minor	no	Foegen Laboratory Spaces	N415A: Paper and tape should be removed from the surgery set up at end of every surgery session, and replaced fresh before the next use. Where possible, sanitizable materials (e.g. plastic) should be used instead of tape and paper.	8/7/2020	7/15/2020
Minor	no	Foegen Laboratory Spaces	N423D: Old duct tape was removed from equipment during visit. Tape should be kept to a minimum, and replaced regularly so it is always intact and sanitizable.	8/7/2020	7/10/2020
Minor	no	HSB: K-Wing Vivarium	K024E: Expired carprofen tablets, disposed of by group at time of site visit.	7/14/2020	7/14/2020

Status of Uncompleted Deficiencies as of the Previous Semi-Annual Report

Severity	Repeat?	Building	Concern Description	Date Correction Due	Date Complete
Minor	no	WaNPRC: Arizona	AB Colony: Exhaust vents have debris in them, suggest cleaning.	7/31/2020	7/29/2020
Minor	no	Guthrie Laboratory Spaces	418: No biological indicator (BI) testing/results have been noted in the autoclave log since September 2019 – Autoclave is currently down, but monthly BI should be done when the autoclave is operational.	7/31/2020	9/18/2020

Minor	no	WaNPRC: I-wing Vivarium	I363: One light is out and needs to be replaced. WaNPRC to submit work order.	12/31/2020	9/23/2020
Minor	no	WaNPRC I-wing Vivarium	I355: Multiple dings on the wall opposite the refrigerator. Group to submit work order.	12/31/2020	12/22/2020
Minor	no	WaNPRC: I- Wing Vivarium	I061: Chipped paint by I061. WaNPRC to submit facility repair request.	3/31/2021	
Minor	no	ARCF (Animal Research & Care Facility)	B278: Wall chip by door. Please repair/repaint so that surface is sealed and sanitizable.	3/31/2021	
Minor	no	WaNPRC: Arizona	AB Colony: Light casings in animal enclosures have debris in them, suggest cleaning.	2/28/2021	
Minor	no	WaNPRC: I- wing Vivarium	I047 (Instrument Prep): Hole in wall (approx. ¼ inch in diameter). Hole should be patched and paint chips on door jamb. WaNPRC to submit work order.	3/31/2021	
Minor	no	WaNPRC: I- wing Vivarium	I073 (Corridor): Main door badly damaged on back/hinge side. WaNPRC to submit work order.	3/31/2021	
Minor	no	WaNPRC: I- wing Vivarium	I089 (Corridor): Damaged hall door and needs repair. WaNPRC to submit work order.	3/31/2021	
Minor	no	WaNPRC: I- wing Vivarium	J025B: Bottom of door jamb is damaged and dry wall is exposed. WaNPRC to submit work order.	3/31/2021	
Minor	no	WaNPRC: I- wing Vivarium	I040H: Multiple paint chips on door jamb in various locations (sx corridor). WaNPRC to submit work order.	3/31/2021	
Minor	no	WaNPRC : I-wing Vivarium	I061 (Isolation/suite entry): Main door damaged on edge. WaNPRC to submit work order.	3/31/2021	Uploaded to Animal Research L
Minor	no	WaNPRC I-wing Vivarium	I563: Chipped floor inside the housing room door, in front of the first rack of cages. WaNPRC to submit work order to repair.	3/31/2021	
Minor	no	WaNPRCI-wing Vivarium	4th floor: Door frame around door from flex labs into vivarium needs painting. WaNPRC to submit work order.	3/31/2021	

Appendix C Departures

Prolonged restraint

Active protocols with approved prolonged restraint are as follows:

- Wild bats, held in cloth bags for transport – 1 protocol
- Wild Birds, held and hooded for transport or equipment attachment – 5 protocols
- Wild mammals, held during capture – 1 protocol
- Wild fish, captured in gill or tow nets – 3 protocols
- Zebrafish, held in a matrix for imaging – 3 protocols
- Mice, held in tubes for various procedures – 15 protocols
- Mice, held by head posts – 7 protocols
- Mice held by tube and head post – 1 protocol
- Nonhuman primates, held in chairs or tubes with or without head posts – 13 protocols
- Nonhuman primates, constrained by swaddling – 1 protocol
- Pigs, held in slings – 1 protocol

Housing at Non-standard Temperature

Active protocols with approved housing at non-standard temperatures are:

- Zebrafish following human cell transplantation or for heat-shock gene activation – 3 protocols
- Mice and Rats housed under cold stress or at thermo-neutral temperatures during metabolic experiments – 5 mice protocols and 2 rat protocols

Others

- The IACUC has approved housing infant monkeys (age 2 weeks to a body weight of 1 kg) in cages that meet floor space requirements but are only 24" high. These animals climb up well, but are not adept at climbing down. The lower cage height reduces the risk of injury if an animal should fall.
- The IACUC has approved co-housing 4 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 innovative configuration meets the volume regulations for Group 3 animals and, while being shy of the floor area standard, provides the animals increased opportunity to express species-typical behavior.
- The IACUC has approved a L shaped housing variance combining cages together in configurations that provide increased vertical space for the animals and more than standard floor space but with part of the space <36 inches (but at least 32 inches) high. This will offer more choice in housing configurations to encourage species-typical behavior such as locomotion and exploration.
- The IACUC has approved scattering food on the floor of NHP housing compounds to minimize contamination and ensure access to food and foraging opportunities for all animals.
- The IACUC has approved allowing for 28 day cage changes for singly housed gerbils.

Appendix D IACUC Program Review

The Animal Care and Use Program was found to be acceptable with no suggestions for improvement.

Disaster Planning and Emergency Preparedness: It was noted that all disaster plans are now posted on the IACUC SharePoint site, where they can be easily accessed by committee members for evaluation. It is proposed that plan evaluation could be most efficiently accomplished at the time of the semi-annual review itself. It is recommended that, in the future, members of the group assigned to this section perform a high level review of each posted disaster plan to ensure that all of the 5 required elements are present. Follow up during future semi-annual reviews on the process for disaster plan approval and dissemination is encouraged

IACUC: This section was found to be acceptable.

IACUC Protocol Review was found to be acceptable. The following was investigated in depth:

1. For genetically modified animals, enhanced monitoring and reporting is in place
 - o basic daily monitoring by husbandry staff is the same for all mice, and it's the responsibility of the research group to do any needed monitoring that is more specific to the phenotype (if there is one that affects their health); if the group needs help with specific monitoring they can hire VS.
 - o vet staff follow up when husbandry identifies issues that can be handled by modifications to monitoring.
 - o when a sick animal is identified, VS will communicate with the group regarding options, and if appropriate or relevant, that will involve checking the protocol regarding monitoring timing/criteria, pointing out that euthanasia criteria have been met, and sometimes euthanizing the animal for the group. It may involve the vet staff continuing to monitor the animal as well, depending on the severity of the issue. And if the group hasn't been monitoring as appropriate, then many additional conversations will occur, including vet monitoring.

IACUC Membership and Functions were found to be acceptable.

IACUC Training was found to be acceptable.

IACUC Records and Reporting Requirements was found to be acceptable.

Veterinary Care was found to be acceptable

It is recommended that a process be created to ensure that all drug records and storage procedures are reviewed during facility inspections.

Personnel Qualifications and Training was found to be acceptable.

For IACUC member training, it is suggested to increase the utilization of online training via webinars, perhaps a once a year "retreat" focused on training. It is also suggested that PIs have informal conversations with the IACUC during protocol development.

Personnel training – Recent adverse events indicate gaps in training. Live webinars focused on relevant training topics are suggested

Occupational Health & Safety of Personnel was found to be acceptable. The emphasis has been on primarily lab safety but there is a need for health and safety training/information/guidelines related to conducting field studies. It is noted that EH&S in the process of finalizing such training/information/guidelines.

Personnel Security: Acceptable. No recommendations for improvement.

Investigating Animal Welfare and Concerns: Acceptable. No recommendations for improvement.

Concurrence Letters

Concurrence Image - JA

Concurrence Image - MB

Concurrence Image - AB

Concurrence Image - KMG

Concurrence Image - KG

Concurrence Image - JS

Concurrence Image - GS

Concurrence Image - KS

Concurrence Image - JM

Concurrence Image - KM

Concurrence Image - DM

Concurrence Image - SL

Concurrence Image - MK

Concurrence Image - KM

Concurrence Image - SH

Concurrence Image - JPVH

Concurrence Image - FRR

Minority Views

None

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