

September 21, 2020 at 2:00 pm, [REDACTED]

(Approved October 19, 2020)

[illegible]

*Quorum was confirmed and the Chair called the meeting to order at 2:04 PM.*

## CONFIDENTIALITY REQUIREMENTS

provided an overview of the confidentiality requirements for participating in [REDACTED] meetings:

- 1) As these meetings and discussions are strictly confidential, please remember to use headsets during the meeting, or access the online meeting in a private, secure area to ensure the integrity of these discussions;
- 2) During the review, please be sure your screen is secure and do not share any documents or information from the meeting; make sure you delete any documents you may have saved on your personal devices;
- 3) If you are going to be late, logging off early, or not attending a meeting, please let us know. ORI recommends that all members call in with their username/video to verify identity. If you join with your phone only (without video), ORI staff will be asking you to identify yourself.

## REVIEW OF MINUTES

The minutes of the August 17, 2020 IACUC meeting were reviewed.

**ACTION/UPDATE:** [REDACTED] moved to approve the minutes. [REDACTED] seconded the motion. All other members present voted to approve the minutes.

*entered the meeting at 2:05pm.*

entered the meeting at 2:07pm.

#### REPORT OF THE CAMPUS VETERINARIAN

Dr. Sato informed the Committee there has been an issue with adherence to social distancing in the V3 vivarium. Working with EH&S, the OCV now limits the gown-up area to one person. Animal and procedure rooms are limited to two people.

#### REPORT OF THE IACUC CHAIR

reminded the Committee that they are welcome to provide a minority opinion for the minutes if they disagree with an IACUC decision. All IACUC discussions must be considered confidential within the guidelines provided in Guidance 529-209 "Confidentiality for IACUC Members." Additionally, members were reminded to inform the Committee when there is discussion of an issue in which they have a conflict of interest.

#### VIVARIUM SECURITY

None.

#### DISCUSSION ITEMS

##### REPORT TO OLAW/PROTOCOL EXPIRATION

informed the Committee of a protocol approval lapse that will be reported to OLAW. The issue has been addressed and managed. The Committee discussed it and determined it was a minor noncompliance.

##### ANNUAL RENEWALS PROCESS

reported on the recent USDA focused inspections. There were no findings of non-compliance, but based on a recommendation the annual review of USDA species and DoD-funded protocols will be formalized by reporting approvals of these AUP's in the IACUC minutes.

##### PHOTO POLICY

informed the Committee that IT and Strategic Communications were contacted after August's IACUC meeting to further provide suggestions on the revised Policy 529-279. The Committee agreed "be mindful" statements were vague and that potential risks should be enumerated.

**ACTION/UPDATE:** moved to approve the policy pending minor corrections. seconded the motion. All other members present approved the motion.

##### LETTER TO ACADEMIC SENATE AND PEVC

shared the letter he drafted to the Academic Senate and PEVC to address the concern that faculty are being discouraged from serving on the IACUC. All faculty committee members agreed to sign. who is currently on sabbatical, will be contacted for permission to include his signature.

**ACTION/UPDATE:** A motion was made to approve the letter once minor revisions have been made. moved to approve and seconded. All members present approved.

##### PRA/FOIA



██████████ update the Committee about the numerous PRA/FOIA requests related to animal research coming into the University. Emails will be sent out to PIs whose redacted protocols are required to be released.

## FALL SEMI-ANNUALS

██████████ discussed the upcoming semi-annual inspections. Due to the pandemic, they will be performed via Zoom during Oct. 5th – Oct. 9th.

RI SEMINAR SERIES (ZOOM): OCT 13-20 AT NOON “[SCIENCE FICTIONS: SOME CAUTIONARY TALES FROM THE REPLICATION CRISIS](#)” BY DR. RITCHIE - KING’S COLLEGE, LONDON, ENGLAND

██████████ shared information about the inaugural RI seminar series and encouraged everyone to try to attend.

██████████ left the meeting at 3:02pm. Quorum was maintained.

## NEW BUSINESS

### NEW PROTOCOLS FOR FULL COMMITTEE REVIEW

A-20200034 ██████████ “Strike while the snake is hot: will increasing nighttime temperatures make an endothermic keystone species more susceptible to ectothermic predators?”

The Committee found this protocol to be very interesting as the objective of this proposal is to comprehensively evaluate the potential for increasing environmental temperature to disrupt predator-prey interactions in keystone species (rattlesnakes and kangaroo rats) across a naturally occurring thermal cline, and then use the data to parameterize and test computational models examining how temperature changes could alter predator-prey equilibria.

After review and discussion, the Committee requested the following modifications to this protocol:

In housing and feeding SOP:

- Provide the reputable source for live feeder mice. This source must be approved by the OCV.

Indicate the maximum time feeder mice will be kept in the lab before being fed to the snakes. In AUP:

- ██████████ is listed in sections 1.8, 4.2 and 4.4. ██████████ listed in sections 4.4 and 12. ██████████ is listed in section 12. Clarify which room(s) will be used and for what purpose.
- Indicate if surgery in section 4.2 “Lab Experiments,” will occur in the same room as the snake housing or elsewhere. If surgery will be performed in the same room, describe how the housing area will be separated from the surgical area.

The Committee noted that a new room is proposed for housing the snakes. Initial inspection of the room will occur during the upcoming semi-annuals.

**ACTION/UPDATE:** ██████████ moved to authorize the chair to appoint a DMR to review the requested modifications and the AUP to be approved after the initial inspection of the room. ██████████ seconded and all others approved.

### NEW AMENDMENTS FOR FULL COMMITTEE REVIEW

None

### PREVIOUSLY DISCUSSED AMENDMENTS AND PROTOCOLS

None.

#### APPROVED PROTOCOLS

- A-20200030 [REDACTED] – “The evolution of quiet flight in raptors and other birds”
- A-20200029 [REDACTED] – “Dissecting the Molecular Causes and Consequences of Synaptic Dysfunction in Fragile X Syndrome”
- A-20200028 [REDACTED] – “Effects of nasal administration of creatine as a novel technique for studying brain energetics”
- A-20200027 [REDACTED] – “Circulation kinetics and bio-distribution of nano-assembled complexes in mice”
- A-20200031 [REDACTED] – “Neurodegeneration and neuroprotection in demyelinating mouse models. Breeding”

#### APPROVED AMENDMENTS

- A-20200012-01 [REDACTED] – “Neurodegeneration and neuroprotection in demyelinating mouse models”
- A-20190018-01 [REDACTED] – “CBNS 120L: Neuroscience Laboratory: Electrophysiology Experiments”
- A-20200014-01 [REDACTED] – “The role of omega-3 fatty acids and bioactive lipid signaling in airway inflammation and resolution following organic dust exposures”
- A-20190039-01 [REDACTED] – “1. Endocrine disruptor mediated activation of PXR causes dyslipidemia and atherosclerosis 2. A novel mechanism for ART-associated dyslipidemia and atherosclerosis 3. Role of IKK $\beta$  in obesity and atherosclerosis 4. A novel role for IKK $\beta$  in epicardial adipose tissue formation”
- A-20180067-03 [REDACTED] – “Microbiome and Pathogenesis of *Vibrio cholera*”

#### APPROVED ANNUAL RENEWALS

- A-20170046 [REDACTED] – “Motte Rimrock Reserve – Stephens’ Kangaroo Rat Management and Monitoring”
- A-20180004 [REDACTED] – “Optimization of Live attenuated influenza vaccine”
- A-20180008 [REDACTED] – “A study of genetic variation and genomic adaptation in southern California kangaroo rat species (*Dipodomys* spp.)”
- A-20180014 [REDACTED] – “Response to Elevated Energy Demands Whole Animal Metabolic Response to Elevated Energy Demands”
- A-20180025 [REDACTED] – “Identification of cat-derived predator cues that induce behavior response in mice”
- A-20180028 [REDACTED] – “Specification, induction and development of the neural crest”
- A-20180027 [REDACTED] – “Breeding of California Mice”
- A-21080068 [REDACTED] – “Behavioral Neuroendocrinology of California Mice”
- A-20190002 [REDACTED] – “Optimization of Live attenuated influenza vaccine in influenza B virus backbond”

A-20190023	██████████	– “RESPONSE SELECTIVITY IN THE MOUSE AUDITORY CORTEX”
A-20190028	██████████	– “Breeding:1. EphB signaling in dendritic spine development”
A-20190029	██████████	– “Experimental: 1. EphB signaling in dendritic spine development”
A-20190047	██████████	– “CORTICAL RESPONSES AND BEHAVIORS IN THE PALLID BAT”
A-20190016	██████████	– “DOD Funded Research: Developmental acoustic exposure as a novel approach to treat Fragile X Syndrome”

#### **RETIRED (AT INVESTIGATOR REQUEST) PROTOCOLS**

None

#### **SUSPENDED PROTOCOLS**

None

#### **EXPIRED PROTOCOLS**

None

#### **SUBAWARDS**

None

#### **INACTIVE (AWAITING PI REVISION) PROTOCOLS**

None

#### **APPROVED LOCATIONS**

None

#### **APPROVED NON-UCR RESERVES RESEARCH**

None

#### **NOTIFICATION OF COLLABORATIVE PROJECTS**

None

#### **TOPICS FOR FUTURE MEETINGS**

- Streptozotocin SOP
- AUP revisions
- Policy and guideline revisions
- Emergency Plan - laboratories
- New Policy: Confirmation Testing of Sanitization Procedures
- SOPs for Common Animal Use Activities
- Guidance on Isoflurane Safety
- Guidance on MS-222 Safety, PPE and Alternatives

**ADJOURNED**

*The meeting was adjourned at 3:18 pm.*

**NEXT MEETING**

Monday, October 19, 2020



October 19, 2020 at 2:00 pm

(Approved November 16, 2020)

[illegible]

*confirmed and the Chair called the meeting to order at 2:00 PM.*

## CONFIDENTIALITY REQUIREMENTS

provided an overview of the confidentiality requirements for participating in [REDACTED] meetings:

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## REVIEW OF MINUTES

The minutes of the September 21, 2020 IACUC meeting were reviewed.

**ACTION/UPDATE:** [REDACTED] moved to approve the minutes. [REDACTED] seconded the motion. All other members present voted to approve the minutes. [REDACTED] abstained.

**REPORT OF THE CAMPUS VETERINARIAN**

██████ reported that a potential protocol non-compliance involving a non-USDA regulated species was discovered during the semi-annual inspections. It appeared that a method of identification was used that was not approved in the protocol. After a lengthy discussion, the Committee determined that a subcommittee of the IACUC be appointed to meet with the PI to investigate the reported non-compliance and gather additional information in order to determine next steps.

██████ also notified the Committee that a predation occurred within the aviary in spite of the installation of door sweeps and rodent traps. After a lengthy discussion, the Committee suggested advising the PI to consider surrounding the cages with ¼" mesh to provide additional protection should a predator be able to penetrate the aviary.

**REPORT OF THE IACUC CHAIR**

Dr. Volz reminded the Committee that they are welcome to provide a minority opinion for the minutes if they disagree with an IACUC decision. All IACUC discussions must be considered confidential within the guidelines provided in Guidance 529-209 "Confidentiality for IACUC Members." Additionally, members were reminded to inform the Committee when there is discussion of an issue in which they have a conflict of interest.

**VIVARIUM SECURITY**

None.

**DISCUSSION ITEMS****VIRTUAL FALL SEMI-ANNUALS**

██████ provided an overview of the recently completed semi-annual inspections. The Committee discussed several repeat findings for one PI and noted concern that ongoing issues in this room that have not been addressed in spite of multiple communications and meetings with the PI. After a lengthy discussion, the Committee determined the PI be given one month to correct the issues and provide detailed SOPs for cleaning of the rooms. If not corrected by the deadline, the Office of the Campus Vet (OCV) will take over care of the animals and the PI will be charged the normal per diem rate. Additionally, the PI's department chair will be cc'd on the communication to the PI.

**ACTION/UPDATE:** ██████ made a motion to approve the semi-annual inspection report. ██████ seconded the motion. All other members present voted to approve the report.

**INHALATION ANESTHESIA VAPORIZER PREVENTATIVE MAINTENANCE GUIDANCE**

██████ informed the Committee he reviewed and made a minor revision to IACUC's Guidance 529-251 "Inhalation Anesthesia Vaporizer Preventative Maintenance."

**ACTION/UPDATE:** ██████ made a motion to approve the revised guidance. ██████ seconded the motion. All other members present voted to approve the guidance.

**A-20190048 REVIEW OF POST-OPERATIVE CARE**

During the recent semi-annual inspection, ██████ observed that there was no notation on a cage card that analgesics were given post-operatively for a surgical procedure. After review of the protocol, ██████ recommended that the PI revise the protocol to include the use of a long-lasting local analgesic such as Bupivacaine or provide the Committee with





justification as to why one cannot be used. The Committee agreed and will request that the PI submit an amendment to address the issue.

left the meeting at 3pm. Quorum was maintained.

#### LETTER TO AS & INTERIM PEVC

informed the Committee he received a response to the letter that was sent to the Academic Senate and Provost and Executive and Vice Chancellor addressing concerns that faculty are being discouraged from serving on the IACUC. The AS and PEVC agree service on a research oversight committee is valuable, but the perception among faculty is that service on Office of Research Integrity (ORI) committees holds little weight for the Committee on Academic Promotion. It was suggested that meet with the Academic Senate to further discuss the issue.

#### ATP TESTING

reported that, over the next few months, she will be performing adenosine triphosphate environmental testing to assess the effectiveness of sanitization of various equipment and instruments across campus.

#### NEW BUSINESS

##### INACTIVE (AWAITING PI REVISION) PROTOCOLS

None

##### NEW PROTOCOLS FOR FULL COMMITTEE REVIEW

None

##### NEW AMENDMENTS FOR FULL COMMITTEE REVIEW

A-20180009-05 – “Mouse mucosal immunity”

presented an amendment to “Mouse mucosal immunity” to the Committee. This amendment is a request to use a neuromuscular blocking drug (NBMD) in a terminal procedure for lung pulmonary function measurements. After review and a lengthy discussion, the Committee determined the following:

- Provide a rigorous scientific justification for the proposed use of neuromuscular blocking drugs (NBMDs).
- A pilot study must be added to the amendment to perform the procedure without the use of an NBMD. The pilot study should be conducted in consultation with the Campus Veterinarian to determine the anesthetic requirements for the procedure.
- Blood pressure (BP) and heart rate (HR) must be carefully monitored and the anesthetic dose adjusted appropriately with the use of NBMDs. Specify details of the monitoring, e.g., the upper and lower range of acceptable BP and HR values, in the protocol. All monitoring must be documented.
- A detailed anesthesia record must be completed for each procedure using NBMDs. The record should document:
  - Timing and dose of anesthetic and NBMD administration, and
  - Vital signs and depth of anesthesia signs obtained during the procedure.



**ACTION/UPDATE:** [REDACTED] moved that the modified amendment be returned to full committee after resubmission. [REDACTED] seconded the motion. All other members approved.

#### PREVIOUSLY DISCUSSED AMENDMENTS AND PROTOCOLS

None

#### APPROVED PROTOCOLS

- A20200033 [REDACTED] – “Maintenance of Mouse Strains for NeuroAIDS Research”
- A-20200035 [REDACTED] – “Comparative locomotion and feeding in lizards”
- A-20200036 [REDACTED] – “Motte Rimrock Reserve – Stephens’ Kangaroo Rat Management and Monitoring”

#### APPROVED AMENDMENTS

- A-20190036-01 [REDACTED] – “Monitoring in vivo neuronal activity and behavior in mouse models of Autism”
- A-20200027-01 [REDACTED] – “Circulation kinetics and bio-distribution of nano-assembled complexes in mice”
- A-20200018-01 [REDACTED] – “Behavioral and metabolic phenotypes induced by developmental PBDE exposure”
- A-20190014-02 [REDACTED] – “Role of aquaporin-4 water channel in epilepsy”
- A-20190014-03 [REDACTED] – “Role of aquaporin-4 water channel in epilepsy”
- A-20200015-01 Sla [REDACTED] – “Nuclear Receptors in Physiology and Disease”
- A-20200015-02 [REDACTED] – “Nuclear Receptors in Physiology and Disease”

#### APPROVED ANNUAL RENEWALS

None

#### RETIRED (AT INVESTIGATOR REQUEST) PROTOCOLS

None

#### SUSPENDED PROTOCOLS

None

#### EXPIRED PROTOCOLS

None

#### SUBAWARDS

None

#### APPROVED LOCATIONS



None

#### APPROVED NON-UCR RESERVES RESEARCH

None

#### NOTIFICATION OF COLLABORATIVE PROJECTS

None

#### TOPICS FOR FUTURE MEETINGS

- Streptozotocin SOP
- AUP revisions
- Policy and guideline revisions
- Emergency Plan - laboratories
- New Policy: Confirmation Testing of Sanitization Procedures
- SOPs for Common Animal Use Activities
- Rodent Euthanasia Guidance
- Guidance on Isoflurane Safety
- Guidance on MS-222 Safety, PPE and Alternatives
- Training Requirements

#### ADJOURNED

*The meeting was adjourned at 3:53pm.*

#### NEXT MEETING

Monday, November 16, 2020



November 16, 2020 at 2:00 pm, via

**(Approved December 14, 2020)**

[illegible]

*Quorum was confirmed and the Chair called the meeting to order at 2:00 PM.*

## CONFIDENTIALITY REQUIREMENTS

provided an overview of the confidentiality requirements for participating in [REDACTED] meetings:

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## REVIEW OF MINUTES

The minutes of the October 19, 2020 IACUC meeting were reviewed.

**ACTION/UPDATE:** [REDACTED] moved to approve the minutes. [REDACTED] seconded the motion. All other members present voted to approve the minutes.

**REPORT OF THE CAMPUS VETERINARIAN**

Dr. Sato reported that the vivarium in MRB is currently scheduled to open in April 2021.

**REPORT OF THE IACUC CHAIR**

Dr. Volz reminded the Committee that they are welcome to provide a minority opinion for the minutes if they disagree with an IACUC decision. All IACUC discussions must be considered confidential within the guidelines provided in Guidance 529-209 "Confidentiality for IACUC Members." Additionally, members were reminded to inform the Committee when there is discussion of an issue in which they have a conflict of interest.

Dr. Volz informed the Committee that [REDACTED] has stepped down from service on the IACUC. This leaves the Committee with four faculty members to conduct reviews, one of which is on sabbatical leave during AY20/21".

[REDACTED] is actively recruiting new members to serve on the IACUC; however, due to the current shortage of members, there will likely be delays in reviewing and approving protocols and amendments.

**VIVARIUM SECURITY**

None.

**DISCUSSION ITEMS****UPDATED FAQ ON QUORUM REQUIREMENTS**

[REDACTED] shared NIH-OLAW's updated FAQ B.5: "What is a quorum and when is a quorum required?" In the updated guidance, OLAW defines "Quorum" and explains that a majority vote of the quorum present at a convened meeting is required for the IACUC to:

1. conduct full committee review and approval of a proposed project or of a significant change to a project, and
2. suspend an activity.

[REDACTED] also pointed out that abstentions from voting:

- do **not** alter the total quorum requirements, and
- do **not** change the number of votes required to conduct business at a meeting of the convened quorum as described in 1 and 2 above.

**REVIEW "MONITORING THE EFFECTIVENESS OF SANITATION BY HAND WASHING" POLICY**

The committee reviewed the revised Policy 529-347: ANIMAL USE PROCEDURE: Monitoring the Effectiveness of Sanitation Done by Hand Washing. [REDACTED] noted that after further research into the frequency with which monitoring needs to be done, the policy was updated to require testing every three years.

**ACTION/UPDATE:** [REDACTED] moved to approve the revised policy and [REDACTED] seconded the motion. All other members present voted to approve.

**PREPARING FOR AAALAC 2021**

[REDACTED] updated the Committee on the progress of the Program Description for AAALAC, which is due December 1st. He complimented how well all of the different stakeholders (OCV, EH&S, Facilities Services, PIs and ORI staff) worked together collaboratively and consultatively.

**REPORT TO OLAW UPDATE**



██████████ informed the Committee that a report submitted to OLAW was acknowledged and no further action is required.

### PREVIOUSLY DISCUSSED PROTOCOL

A-20190044 ██████████ – “Chemical Inhibitor as Antiviral Defense in Mouse.”

██████████ informed the Committee that the PI of this protocol requested to meet with the Committee to discuss the request for modifications. After discussion, the Committee determined that a subcommittee will meet with the PI to help him understand the need for the requested revisions and how to appropriately address them.

██████████ the meeting at 2:57pm.

### SEMI-ANNUAL REVIEW FOLLOW UP

██████████ asked the Committee how it wanted to follow up with a PI that had several deficiencies noted during the Fall Semi-annuals. It was determined the rooms in question would be re-inspected to confirm the PI addressed all of the issues. The Committee also decided that SOPs that pertain to the maintenance of those rooms would be reviewed by the IACUC to ensure they are sufficient.

### NEW BUSINESS

#### INACTIVE (AWAITING PI REVISION) PROTOCOLS

None

#### NEW PROTOCOLS FOR FULL COMMITTEE REVIEW

A-20200043 ██████████ – “1. Early detection of osteoarthritis by optical coherent tomography 2. Mechanical stimulation-induced autocrine signals in chondrocytes and osteoblasts: An in-vitro study”

The Committee considered this protocol, which 1) studies whether optical coherent tomography can detect structural changes in cartilages and bones in the early stage of osteoarthritic knees in rats; and, 2) investigates the mechanisms by which mechanical forces (such as exercise in vivo) regulate functions of chondrocytes and osteoblasts in vitro. After review and discussion, the committee determined the protocol to be very well written.

**ACTION/UPDATE:** ██████████ moved to approve the protocol and ██████████ seconded. All other members present voted to approve.

#### NEW AMENDMENTS FOR FULL COMMITTEE REVIEW

A-20190056-02 ██████████ – “Physiological functions of RNA processing in mice”

The Committee reviewed this amendment, which requests the addition of a toe clipping procedure to identify young mice pups.

After review and discussion, the committee requested the following modifications to this amendment:

- Per NIH’s guidelines for toe clipping of rodents ([https://oacu.oir.nih.gov/sites/default/files/uploads/arac-guidelines/b9\\_toe\\_clipping.pdf](https://oacu.oir.nih.gov/sites/default/files/uploads/arac-guidelines/b9_toe_clipping.pdf)), this procedure should be performed in rodents ≤7 days of age. Please include this link in the revision.





- The amendment states “We need to phenotype them during the first two weeks after birth and therefore need a reliable method to ID young pups (<13 days).” Please change this to  $\leq 7$  days of age.
- The amendment also states “We will use the sharp scissor to clip up to one toe per paw in postnatal day 7 pups.” Please change this to  $\leq 7$  days of age.

**ACTION/UPDATE:** [REDACTED] moved to authorize the chair to appoint a DMR to review the requested modifications. [REDACTED] seconded the motion and all approved.

#### PREVIOUSLY DISCUSSED AMENDMENTS AND PROTOCOLS

See above discussion of protocol A-20190044.

#### APPROVED PROTOCOLS

- A-20200039 [REDACTED] – “Behavioral assessment & Tissue Collection of Mouse Strains for NeuroAIDS Research”
- A-20200040 [REDACTED] – “Neuroprotection by IFN $\beta$  in AIDS - Treatment of Mice”
- A-20200041 [REDACTED] – “Tissue Collection from Mouse Strains for NeuroAIDS Research”

#### APPROVED AMENDMENTS

- A-20200005-01 [REDACTED] – “Mouse behaviors and physiology regulated by external semiochemicals and endocrine hormones”
- A-20190053-01 [REDACTED] – “Mouse behaviors and physiology regulated by external semiochemicals and endocrine hormones”
- A-20180016-01 [REDACTED] – “In vivo studies of Mg alloys (B6 alloys) for bone repair”
- A-20190055-01 [REDACTED] – “Local Circuit Properties Underlying Cortical Plasticity”
- A-20190037-01 [REDACTED] – “Anuran muscle physiology”

#### APPROVED ANNUAL RENEWALS

None

#### RETIRED (AT INVESTIGATOR REQUEST) PROTOCOLS

None

#### SUSPENDED PROTOCOLS

None

#### EXPIRED PROTOCOLS

None

#### SUBAWARDS



None

#### APPROVED LOCATIONS

None

#### APPROVED NON-UCR RESERVES RESEARCH

None

#### NOTIFICATION OF COLLABORATIVE PROJECTS

None

#### TOPICS FOR FUTURE MEETINGS

- Streptozotocin SOP
- AUP revisions
- Policy and guideline revisions
- Emergency Plan - laboratories
- SOPs for Common Animal Use Activities
- Guidance on Isoflurane Safety
- Guidance on MS-222 Safety, PPE and Alternatives

#### ADJOURNED

*The meeting was adjourned at 3:20 pm.*

#### NEXT MEETING

Monday, December 14, 2020

December 14, 2020 at 2:00 pm, via [REDACTED]

(Approved February 8, 2021)

[illegible]

*Quorum was confirmed and the Chair called the meeting to order at 2:01pm.*

joined meeting at 2:02pm.

## CONFIDENTIALITY REQUIREMENTS

provided an overview of the confidentiality requirements for participating in meetings:

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## REVIEW OF MINUTES

The minutes of the November 16, 2020 IACUC meeting were reviewed.

**ACTION/UPDATE:** [REDACTED] moved to approve the minutes. [REDACTED] seconded the motion. With one abstention, all other members present voted to approve the minutes.

## REPORT OF THE CAMPUS VETERINARIAN

Dr. Sato reported the MRB vivarium is still on track to open April 2021.

## REPORT OF THE IACUC CHAIR

Dr. Volz reminded the Committee that they are welcome to provide a minority opinion for the minutes if they disagree with an IACUC decision. All IACUC discussions must be considered confidential within the guidelines provided in Guidance 529-209 "Confidentiality for IACUC Members." Additionally, members were reminded to inform the Committee when there is discussion of an issue in which they have a conflict of interest.

## VIVARIUM SECURITY

None.

## DISCUSSION ITEMS

### WELCOME NEW COMMUNITY MEMBER

[REDACTED] the new Community Member, [REDACTED] to the Committee. All IACUC members present introduced themselves and welcomed the new member.

### CHAIR OF IACUC

[REDACTED] announced that the IACUC Chair, Dr. Volz, is stepping down from service on the Committee effective January 1, 2021.

[REDACTED] and the entire committee expressed gratitude to Dr. Volz for his hard work and dedication to the UCR Animal Care and Use Program.

### REPORTS TO OLAW, USDA

[REDACTED] informed the Committee that annual reports were submitted to, and accepted, by OLAW and the USDA.

OLAW also acknowledged receipt of a noncompliance report and confirmed that appropriate corrective actions were taken by UCR.

### SUBCOMMITTEE UPDATES

[REDACTED] shared with the Committee that a recent meeting with [REDACTED] was very beneficial. [REDACTED] agreed with the Committee's requirements for more humane endpoints.

[REDACTED] stressed to [REDACTED] the need for additional references and that working with a collaborator who has experience in the area of research being studied would be very helpful to [REDACTED]



██████████ reported the outcome of a meeting that was held with a PI who had several deficiencies noted during the Fall Semi-annuals. The rooms in question were re-inspected prior to meeting with the PI. The PI corrected most of the issues. The PI also agreed to clean the rooms regularly and more thoroughly. The PI agreed to inform the OCV of any necessary work orders that needed to be placed to keep the rooms in compliance.

#### PI NAMES IN MINUTES

██████████ to the Committee about the ongoing PRA/FOIA requests. To best protect the researchers, going forward, no names will be used in agendas or minutes in conjunction with AUPs or amendments.

#### REVIEW OF POLICY 529-251 "TRAINING OF ANIMAL USERS"

The Committee reviewed Policy 529-251 "Training of Animal Users." It was recommended that a link be updated and one sentence removed.

**ACTION/UPDATE:** ██████████ moved to approve the policy with the changes requested. ██████████ seconded the motion. All other members present voted to approve.

#### NEW BUSINESS

#### INACTIVE (AWAITING PI REVISION) PROTOCOLS

None

#### NEW PROTOCOLS FOR FULL COMMITTEE REVIEW

██████████ *the meeting at 2:55pm.*

A-20200038 "Neural Mechanisms of Emotional Learning and Memory"

The Committee considered this well-organized protocol that aims to understand the neural mechanisms of emotional learning and memory.

After review and discussion, the Committee requested the following modifications to this protocol:

- Section 4.2: Subproject 2: reward conditioning – should be pain category 2, not 3.
- Section 4.8: Check "no" and remove text. As per policy 529-224, 24 hours or less is not considered food restriction.
- Section 12: Each compound listed in this section should be described on a separate form. Please copy and paste a blank form and complete it for each hazardous agent already described. 4-hydroxytamoxifen and N-methyl-D-aspartate need to be included on separate forms in Section 12. As 4-hydroxytamoxifen is a metabolite of tamoxifen, Policy 529-345, "Tamoxifen, Bromodeoxyuridine (BrdU), and other non-radioactive DNA Precursors - Treatment in Rodents" must be followed, including completing and signing an SOP before initiating work (contact EH&S for SOP templates).
- Section 12: Lentivirus, HSV and rabies must be handled at the BSL-2 level; this should be described on the individual hazard agents forms.

After review and discussion, the Committee also requested the following modifications to the Husbandry SOP:

- Point 2: Remove “or by staffs in the Spieth Hall vivarium on weekends and holidays” as vivarium staff do not care for animals outside of the vivarium. Indicate that your lab personnel will be checking the animals at least daily, including weekends and holidays.
- Point 4: Indicate that Policy 529-346 “AAV viral vector treatments in rodents” will be followed, including “all cage changes within the first 72 hours and the first cage change after 72 hours must be treated as biohazardous.” After emptying, the cages must be decontaminated with Virkon-S or a 10% bleach solution before returning them to the Spieth cage washer for cleaning. Work with EH&S to confirm the appropriate place in the lab to change the infected cages (e.g., a hood) and describe this in the SOP. Contact JC Sanchez, the EH&S waste supervisor, to arrange for biohazard bins and hazard pick-up for your lab.
- Point 4: Indicate that Policy 529-345 “Tamoxifen, Bromodeoxyuridine (BrdU), and other non-radioactive DNA Precursors - Treatment in Rodents” will be followed, including treating bedding as chemically contaminated up to and including the first cage change that occurs at least 72 hours following the final administration. Animal bedding contaminated with 4-hydroxytamoxifen must be disposed of in trace chemo. After emptying, the cages must be decontaminated with Virkon-S or a 10% bleach solution before returning them to the [REDACTED] cage washer for cleaning. Work with EH&S to confirm the appropriate place in the lab to change the infected cages (e.g., a hood) and describe this in the SOP. Contact [REDACTED], the EH&S waste supervisor, to arrange for chemo bins and hazard pick-up for your lab.
- Point 11: Please provide a specific monitoring schedule for post-surgical, wound infection procedures.

**ACTION/UPDATE:** [REDACTED] moved to authorize the chair to appoint a DMR to review the requested modifications. [REDACTED] seconded the motion and all approved.

#### NEW AMENDMENTS FOR FULL COMMITTEE REVIEW

A-20190015-05 “Translational EEG biomarkers in a mouse model of Fragile X Syndrome”

The Committee considered this very well written amendment that expands the studies of ‘Translational EEG biomarkers in a mouse model of Fragile X Syndrome’ protocol to include EEG (MEA) recording of developmental mice (P21), six additional pharmacological interventions, and an additional mouse strain for MEA and depth electrode EEG recordings.

After review and discussion, the Committee requested the following modification to this amendment:

- Please change pain category for animals undergoing food restriction to pain category “2.”

**ACTION/UPDATE:** [REDACTED] moved to authorize the chair to appoint a DMR to review the requested modifications. [REDACTED] seconded the motion and all approved.

[REDACTED] *left meeting at 3:27pm. Quorum was maintained.*

#### PREVIOUSLY DISCUSSED AMENDMENTS AND PROTOCOLS

None



#### APPROVED PROTOCOLS

- A-2020004 "Contractile properties of control and high-runner mice"
- A-20200043 "1. Early detection of osteoarthritis by optical coherent tomography 2. Mechanical stimulation-induced anabolic signals in chondrocytes and osteoblasts: An in-vitro study"
- A-20200045 "Collection of cells, blood, and tissues for studying biomaterials in vitro"
- A-20200034 "Strike while the snake is hot: will increasing nighttime temperatures make an endothermic keystone species more susceptible to ectothermic predators?"

#### APPROVED AMENDMENTS

- A-20200018-02 "Behavioral and metabolic phenotypes induced by developmental PBDE exposure"
- A-20200020-01 "Brain Body Pathways in Gulf War Illness"
- A-20190056-02 "Physiological functions of RNA processing in mice"
- A-20200021-01 "Developmental analysis of neural circuit assembly"
- A-20180068-04 "Behavioral Neuroendocrinology of California Mice"

#### APPROVED ANNUAL RENEWALS

None

#### RETIRED (AT INVESTIGATOR REQUEST) PROTOCOLS

- A-20190024 "Ecology and Management of Mosquitoes Inhabiting Wetlands and Underground Storm Drains"

#### SUSPENDED PROTOCOLS

None

#### EXPIRED PROTOCOLS

None

#### SUBAWARDS

None

#### APPROVED LOCATIONS

None

#### APPROVED NON-UCR RESERVES RESEARCH

None

#### NOTIFICATION OF COLLABORATIVE PROJECTS





None

### TOPICS FOR FUTURE MEETINGS

- Streptozotocin SOP
- AUP revisions
- Policy and guideline revisions
- Emergency Plan - laboratories
- SOPs for Common Animal Use Activities
- Guidance on Isoflurane Safety
- Guidance on MS-222 Safety, PPE and Alternatives

### ADJOURNED

*The meeting was adjourned at 3:42pm.*

### NEXT MEETING

February 8, 2021