

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

12:00 P.M.

** **

Meeting Minutes

January 20, 2021

Members Present: MB, AZ, RB, MT, KH, ND, RJ, SS, CM,DK

Members Absent: DC, JM, LM

Guests: LC, KL, JK

Review and approve IACUC Meeting Minutes from December 2020.

The minutes were approved as written.

Announcements:

TB tests will be offered on campus in February. Contact LS if interested.

I. Protocols Approved Since Last Meeting

| | | | | | |
|------------|-------------|-------------|-------------|------------|------------|
| 2020-91-49 | 2019-93-124 | 2019-38-107 | 2020-69-141 | 2019-43-90 | 2020-18-53 |
| 2020-121 | 2020-94-123 | | | | |

II. Unfinished Business

A. IACUC Training Update:

1. Animal User and PI Training Requirements **Action Item:** Post updated policy on the IACUC webpage and send notification of revised training requirements to IACUC listserv.(LC) Complete

III. New Business

A. Policies/SOP's

The following ARC SOP's were reviewed by the committee.

1. Euthanasia Of Aquatic Species- Approved as edited
2. Murine Quarantine Procedures- Approved as written

IV. Full Committee Review

None

V. Adverse Events

1-2021 Adverse event and associated CAPA and management plan was reviewed and discussed.

VI. AV Update

On offer has been made to add an additional member to the ARC staff. The AV has been working closely with VPR office to look at fundamental and structural efforts to improve the facility.

VII. IACUC Update

A. SAFIPR Update

Open items and completion dates were reviewed with the committee.

B. AAALAC site visit is schedule for third quarter 2021. The program description is in Share Point for editing.

VIII. Continuing Education:

[OLAW Webinars and Podcasts](#)

[IACUC 101](#)

[PRIM&R Virtual Conference April 2021](#)

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

12:00 P.M.

**** ****

Meeting Minutes

February 18, 2021

Members Present: MB, AZ, RB, MT, KH, ND, RJ, SS, CM, LM, JM, DC

Members Absent: DK

Guests: LC, KL, JV

Review and approve IACUC Meeting Minutes from January 2021.

The minutes were approved as written.

Announcements:

I. Protocols Approved Since Last Meeting

| Approval Date | <input type="checkbox"/> | Protocol Type | Protocol # |
|---------------|--------------------------|----------------|--------------|
| 1/22/2021 | <input type="checkbox"/> | Interim Review | 2020-148-136 |
| 1/22/2021 | <input type="checkbox"/> | Interim Review | 2018-37-83 |
| 2/2/2021 | <input type="checkbox"/> | Amendment | 2020-15-51 |
| 1/25/2021 | <input type="checkbox"/> | Interim Review | 2020-60-126 |
| 2/1/2021 | <input type="checkbox"/> | Interim Review | 2020-61-125 |
| 2/10/2021 | <input type="checkbox"/> | Interim Review | 2019-143-92 |
| 2/10/2021 | <input type="checkbox"/> | Interim Review | 2019-45-93 |
| 2/10/2021 | <input type="checkbox"/> | Interim Review | 2019-46-94 |
| 1/25/2021 | <input type="checkbox"/> | Amendment | 2019-49-101 |
| 2/16/2021 | <input type="checkbox"/> | Original | 2021-140 |
| 2/9/2021 | <input type="checkbox"/> | Amendment | 2018-42-85 |
| 2/9/2021 | <input type="checkbox"/> | Amendment | 2019-54-117 |

II. Unfinished Business None

III. New Business

A. Policies/SOP's

The following IACUC Policy and ARC SOP's were reviewed by the committee.

1. Physical Restraint: The policy was updated to align with the TOPAZ protocol form.
2. Daily Husbandry, Health and Life Support System Checks for Zebrafish: Tabled for next meeting. The zebrafish user on the committee did not have a chance to review the policy. Additional SOP's on aquatics will be submitted for review in the next meeting.
3. Centrifuge Operation and Maintenance: Approved with minor edits
4. Decontamination of ARC Rooms including the Surgical Suite Approved with minor edits
5. Rodent Husbandry and Cage Changing Procedures for ABSL1 Animal Holding Rooms Approved with minor edits

IV. Full Committee Review

None

V. Adverse Events

2-2021 Adverse event and associated CAPA and management plan was reviewed and discussed.

VI. AV Update

A new experienced Animal Technologist has started in the ARC.

VII. IACUC Update

A. SAFIPR Update

All items have been completed.

B. AAALAC Program Description

The Program Description is being updated the AV and IACUC Program Manager are making good progress.

VIII. Continuing Education:

[OLAW Webinars and Podcasts](#)

[IACUC 101](#)

[PRIM&R Virtual Conference April 2021](#)

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

12:00 P.M.

**** ****

Meeting March 23, 2021

Members Present: MB, AZ, RB, MT, KH, ND, SS, JM, LM, DK(alternate), CM(alternate)

Members Absent: DC, RJ

Guests: LC, KL, JV, CC

The purpose of this meeting was to review the two PAM reports and adverse event 03-2021.

I. PAM

2019-53-111

2019-138-107

PAM reports were reviewed and discussed with the committee. The reports were approved as written.

II. Adverse Events

03-2021 Adverse event and associated CAPA and management plan was reviewed and discussed.

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

12:00 P.M.

** **

Meeting Minutes

March 17, 2021

Members Present: MB, AZ, RB, MT, KH, ND, RJ, SS, JM

Members Absent: DC, LM, DK(alternate), CM(alternate)

Guests: LC, KL, JV

Review and approve IACUC Meeting Minutes from February 2021.

The minutes were approved as written.

Announcements:

I. Protocols Approved Since Last Meeting

| Approval Date | | Protocol Type | Protocol # |
|---------------|--------------------------|----------------|--------------|
| 3/16/2021 | <input type="checkbox"/> | Interim Review | 2019-158-95 |
| 2/26/2021 | <input type="checkbox"/> | Amendment | 2020-21 |
| 3/4/2021 | <input type="checkbox"/> | Interim Review | 2020-73-127 |
| 3/5/2021 | <input type="checkbox"/> | Renewal | 2021-24-02 |
| 3/1/2021 | <input type="checkbox"/> | Amendment | 2020-139-54 |
| 3/15/2021 | <input type="checkbox"/> | Amendment | 2020-71-146 |
| 3/16/2021 | <input type="checkbox"/> | Interim Review | 2019-134-91 |
| 3/17/2021 | <input type="checkbox"/> | Renewal | 2021-25-61 |
| 3/2/2021 | <input type="checkbox"/> | Amendment | 2020-69-141 |
| 3/17/2021 | <input type="checkbox"/> | Amendment | 2019-138-107 |
| 3/16/2021 | <input type="checkbox"/> | Interim Review | 2020-100-135 |
| 2/22/2021 | <input type="checkbox"/> | Amendment | 2020-150-142 |
| 3/9/2021 | <input type="checkbox"/> | Interim Review | 2019-99-99 |
| 3/16/2021 | <input type="checkbox"/> | Interim Review | 2020-44-132 |
| 2/24/2021 | <input type="checkbox"/> | Amendment | 2020-20-60 |
| 2/24/2021 | <input type="checkbox"/> | Amendment | 2019-50-97 |
| 2/24/2021 | <input type="checkbox"/> | Amendment | 2021-118-01 |
| 3/4/2021 | <input type="checkbox"/> | Interim Review | 2020-62-131 |
| 3/1/2021 | <input type="checkbox"/> | Interim Review | 2020-64-129 |
| 3/12/2021 | <input type="checkbox"/> | Interim Review | 2019-47-100 |

II. Unfinished Business

None

III. New Business

IV. Full Committee Review

Protocol 163: The PI presented an overview of the project to committee. It was extremely beneficial to IACUC members who were not familiar with the methods used in this type of work. The protocol will be returned for modification and sent to DMR upon resubmission. Items to be addressed include but are not limited to:

- Include AQUIS as non-pharm grade substance
- Once permit is obtained, complete table and/or attach permit

V. Adverse Events

None

VI. AV Update

A shipment of frogs were deceased at the time of arrival due to the extreme cold in Texas which affected transportation. A cage of mice was found in the cagewash area after a PI was performing euthanasia. The cage contained food and water and there were no animal welfare issues. Also, an animal care technician has resigned.

VII. IACUC Update

The following IACUC policies were updated:

Rodent Cage Density

Animal User and PI Training

Updates were approved as written.

A Rodent Euthanasia Policy which includes a mandatory secondary/confirmatory method of euthanasia was approved as written.

Action Item: Update IACUC webpage and issue notification to animal users.

VIII. Continuing Education:

[OLAW Webinars and Podcasts](#)

[IACUC 101](#)

[PRIM&R Virtual Conference April 2021](#)

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

12:00 P.M.

** **

Meeting Minutes

April 20, 2021

Members Present: MB, AZ, RB, MT, KH, ND, RJ, SS, JM, RJ,DC, DK(alternate), CM(alternate)

Members Absent: LM

Guests: LC, KL, JV, RB (S&R)

Review and approve IACUC Meeting Minutes from March 17 and 23 2021.

The minutes were approved as written.

Announcements from the Chair: IACUC members will have access to all approved protocols in TOPAZ. This will help facilitate review by allowing committee members to view similar protocols.

I. Protocols Approved Since Last Meeting

| Approval Date | <input type="checkbox"/> | Protocol Type ↑ | Protocol # |
|---------------|--------------------------|-----------------|--------------|
| 3/26/2021 | <input type="checkbox"/> | Amendment | 2019-158-95 |
| 4/20/2021 | <input type="checkbox"/> | Renewal | 2021-27-64 |
| 3/25/2021 | <input type="checkbox"/> | Interim Review | 2020-97-128 |
| 4/5/2021 | <input type="checkbox"/> | Interim Review | 2020-65-140 |
| 4/5/2021 | <input type="checkbox"/> | Interim Review | 2020-68-138 |
| 4/19/2021 | <input type="checkbox"/> | Amendment | 2019-134-91 |
| 4/5/2021 | <input type="checkbox"/> | Amendment | 2018-37-83 |
| 4/5/2021 | <input type="checkbox"/> | Amendment | 2020-15-51 |
| 3/17/2021 | <input type="checkbox"/> | Renewal | 2021-25-61 |
| 4/8/2021 | <input type="checkbox"/> | Interim Review | 2020-69-141 |
| 3/17/2021 | <input type="checkbox"/> | Amendment | 2019-138-107 |
| 4/1/2021 | <input type="checkbox"/> | Amendment | 2020-153-145 |
| 3/24/2021 | <input type="checkbox"/> | Interim Review | 2020-150-142 |
| 4/8/2021 | <input type="checkbox"/> | Original | 2021-155 |
| 4/5/2021 | <input type="checkbox"/> | Amendment | 2020-91-149 |
| 4/20/2021 | <input type="checkbox"/> | Interim Review | 2019-50-97 |
| 3/30/2021 | <input type="checkbox"/> | Interim Review | 2019-96-88 |
| 3/29/2021 | <input type="checkbox"/> | Interim Review | 2020-67-139 |
| 4/7/2021 | <input type="checkbox"/> | Interim Review | 2020-98-134 |

II. Unfinished Business None

III. New Business ARC SOP's

Rodent Anesthesia
Mouse Anesthesia and Training Form
Murine Quarantine Procedures
Receipt of Non Aquatic Species

All SOP's were reviewed and discussed. The SOP's were approved pending minor clarifications and editing.

IV. Full Committee Review

None

V. Adverse Events

None

VI. OLAW Non-Compliance Report

Non-compliant items and corrective actions identified in the PAM were submitted to OLAW. OLAW believes the corrective and preventative measures are consistent with the PHS Policy.

VII. AV Update

- A. Environmental Enrichment Plan: The Environmental Enrichment Plan for all species in the ARC was reviewed and discussed. The plan was updated to align with current practices, and include all species currently housed in the ARC.
- B. X. Tropicalis euthanasia: The PI will no longer be using this species.
- C. Frog Housing Unit Chiller Failure: The chiller on the frog housing unit failed due to a blown fuse. The incident was corrected, and animal welfare was not affected.
- D. Primate Update: The animal is doing well, and research should be able to resume after the antibiotic treatment has been completed.

VIII. IACUC Update

- A. Protocol Review Process Policy Update: The Protocol Review Process Policy was updated to allow for more flexibility, communication options with Attending Veterinarian consultation and review of protocols. It was approved as written.
- B. Rodent Cage Density
Animal User and PI Training
Updates were approved as written.
- C. A Rodent Euthanasia Policy which includes a mandatory secondary/confirmatory method of euthanasia was approved as written.

Action Item: Update IACUC webpage and issue notification to animal users.

IX. Continuing Education:

[OLAW Webinars and Podcasts](#)
[IACUC 101](#)
ICARE workshops

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

12:00 P.M.

** **

Meeting Minutes

May 12, 2021

Members Present: MB, RB, MT, KH, ND, RJ, SS, JM, LM, DC, DK(alternate), CM(alternate)

Members Absent: AZ

Guests: LC, KL, RB (S&R), JK

Review and approve IACUC Meeting Minutes from March 17 and 23 2021.

The minutes were approved as written.

Announcements from the Chair: IACUC members will have access to all approved protocols in TOPAZ. This will help facilitate review by allowing committee members to view similar protocols.

I. Protocols Approved Since Last Meeting

| Approval Date | <input type="checkbox"/> | Protocol Type ↑ | Protocol # |
|---------------|--------------------------|-----------------|--------------|
| 5/26/2021 | <input type="checkbox"/> | Interim Review | 2019-135-114 |
| 5/26/2021 | <input type="checkbox"/> | Amendment | 2019-58-120 |
| 5/24/2021 | <input type="checkbox"/> | Amendment | 2020-139-54 |
| 5/24/2021 | <input type="checkbox"/> | Amendment | 2020-141-55 |
| 6/2/2021 | <input type="checkbox"/> | Interim Review | 2019-138-107 |
| 5/27/2021 | <input type="checkbox"/> | Amendment | 2020-150-142 |
| 6/9/2021 | <input type="checkbox"/> | Interim Review | 2020-160-147 |
| 5/21/2021 | <input type="checkbox"/> | Amendment | 2021-118-01 |
| 6/9/2021 | <input type="checkbox"/> | Interim Review | 2019-52-110 |
| 5/24/2021 | <input type="checkbox"/> | Amendment | 2019-54-117 |
| 6/4/2021 | <input type="checkbox"/> | Original | 2021-173 |
| 6/8/2021 | <input type="checkbox"/> | Interim Review | 2019-106-105 |

II. Unfinished Business

None

III. New Business

ARC SOP's

21 Daily Husbandry, Health, and Life Support System Checks for *Xenopus laevis*

22 Daily Husbandry, Health, and Life Support System Checks for *Xenopus tropicalis*

65 Daily Husbandry, Health, and Life Support System Checks for Zebrafish

72 Quarantine of Aquatic Species

73 Receipt of Aquatic Species

74 Maintenance of Aquatic Species Life Support Systems

All SOP's were reviewed and discussed. The SOP's were approved pending minor clarifications and editing.

IV. Full Committee Review

Protocol 113: The PI and research staff presented an overview of the proposal to the committee.

The protocol will be returned for modification and sent to DMR upon resubmission. Items to be address include but are not limited to:

- Include dates of literature search
- Confirm/edit non-pharmaceutical grade compounds
- Include associated IBC protocol
- Edit methods of euthanasia for clarification

Protocol 167: The PI presented an overview of the proposal to the committee. The protocol will be returned for modification and sent to DMR upon resubmission. Items to be address include but are not limited to:

- Clarify if the protocol will used for training
- Elaborate on responses to all three of the 3 R's questions
- Provide additional detail regarding experimental procedures
- Expand/clarify justification to support experimental design

V. Adverse Events

4-2021 The adverse event was reviewed and discussed.

VI. AV Update

- MSU is actively recruiting for ARC staff.
- Internet service has been provided to the ARC and a Chromebook is being piloted.

VII. IACUC Update

- Rodent Surgery and Aseptic Technique: The AV has some items that need to be addressed so the policy was not approved and will be reviewed at a later date.
- Field Study Protocol Exemption: The policy and exemption form were approved as written.

VIII. Continuing Education:

[OLAW Webinars and Podcasts](#)

[IACUC 101](#)

[ICARE workshops](#)

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

12:00 P.M.

** **

Meeting Minutes

June 17, 2021

Members Present: MB, RB, MT, KH, ND, RJ, SS, JM, DC, AZ

Members Absent: LM, DK(alternate), CM(alternate)

Guests: LC, KL, RB (S&R)

Review and approve IACUC Meeting Minutes from May 12, 2021.

The minutes were approved as written.

Announcements from the Chair: The July meeting is cancelled.

I. Protocols Approved Since Last Meeting

| Approval Date | <input type="checkbox"/> | Protocol Type | Protocol # |
|---------------|--------------------------|----------------|--------------|
| 6/16/2021 | <input type="checkbox"/> | Amendment | 2019-158-95 |
| 5/26/2021 | <input type="checkbox"/> | Interim Review | 2019-135-114 |
| 5/26/2021 | <input type="checkbox"/> | Amendment | 2019-58-120 |
| 5/24/2021 | <input type="checkbox"/> | Amendment | 2020-139-54 |
| 5/24/2021 | <input type="checkbox"/> | Amendment | 2020-141-55 |
| 6/2/2021 | <input type="checkbox"/> | Interim Review | 2019-138-107 |
| 5/27/2021 | <input type="checkbox"/> | Amendment | 2020-150-142 |
| 6/9/2021 | <input type="checkbox"/> | Interim Review | 2020-160-147 |
| 5/21/2021 | <input type="checkbox"/> | Amendment | 2021-118-01 |
| 6/9/2021 | <input type="checkbox"/> | Interim Review | 2019-52-110 |
| 6/11/2021 | <input type="checkbox"/> | Interim Review | 2019-113-96 |
| 6/16/2021 | <input type="checkbox"/> | Amendment | 2020-13-52 |
| 6/16/2021 | <input type="checkbox"/> | Amendment | 2020-8 |
| 6/4/2021 | <input type="checkbox"/> | Original | 2021-173 |
| 6/8/2021 | <input type="checkbox"/> | Interim Review | 2019-106-105 |

II. Unfinished Business

None

III. New Business

A. Veterinarian Transition Plan

The AV will be leaving MSU on June 30th. JB will serve as the Interim AV and KL will serve as interim director of ARC. Notification regarding the change in AV has been sent to AAALAC. APHIS form 7002 Program of Veterinary Care is being finalized. OLAW will be updated when filing the annual report as required.

B. Semi-Annual Facility Inspection Program Review Report to IO

Semi- Annual Facility Inspection Program Review Report to IO was reviewed, discussed and approved as written.

C. ARC SOPs

SOP 2.1 Processing of Rodent Cages in Cagewash
SOP 7.5 IWT Cagewash Operation and Maintenance
SOP 11.4 Autoclave Use in Cage Wash
SOP 20.1 NHP Husbandry and Health Checks

SOP 76 Non Human Primate Escape Procedures
SOP 77 Water Supplied to Animals, Equipment and Aquatic Systems
SOP 78 Safety Equipment and Routine Maintenance in the ARC
SOP 79 Food Preparation and Storage
SOP 80 Sedation Injection Procedures for Non Human Primates

All SOP's were reviewed and discussed. The SOP's were approved pending minor clarifications and editing.

IV. Full Committee Review

None

V. Adverse Events

None

VI. AV Update

A. MSU is actively recruiting for ARC staff.

B. Internet service has been provided to the ARC and a Chromebook is being piloted.

VII. IACUC Update

A. Rodent Surgery and Aseptic Technique: The AV has some items that need to be addressed so the policy was not approved and will be reviewed at a later date.

B. Field Study Protocol Exemption: The policy and exemption form were approved as written.

VIII. Continuing Education:

[OLAW Webinars and Podcasts](#)

[IACUC 101](#)

[ICARE workshops](#)

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

12:00 P.M.

** **

Meeting Minutes

August 18, 2021

Members Present: MB, RB, JB, RJ, SS, JM, DC, AZ, CM

Members Absent: LM, MT, ND, DK(alternate)

Guests: LC, KL, JV,RB

Review and approve IACUC Meeting Minutes from June 17, 2021.

The minutes were approved as written.

Announcements from the Chair:

The chair introduced the new interim AV.

I. Protocols Approved Since Last Meeting

| Approval Date | <input type="checkbox"/> | Protocol Type ↑ | Protocol # |
|---------------|--------------------------|-----------------|--------------|
| 6/16/2021 | <input type="checkbox"/> | Amendment | 2019-158-95 |
| 5/26/2021 | <input type="checkbox"/> | Interim Review | 2019-135-114 |
| 5/26/2021 | <input type="checkbox"/> | Amendment | 2019-58-120 |
| 5/24/2021 | <input type="checkbox"/> | Amendment | 2020-139-54 |
| 5/24/2021 | <input type="checkbox"/> | Amendment | 2020-141-55 |
| 6/2/2021 | <input type="checkbox"/> | Interim Review | 2019-138-107 |
| 5/27/2021 | <input type="checkbox"/> | Amendment | 2020-150-142 |
| 6/9/2021 | <input type="checkbox"/> | Interim Review | 2020-160-147 |
| 5/21/2021 | <input type="checkbox"/> | Amendment | 2021-118-01 |
| 6/9/2021 | <input type="checkbox"/> | Interim Review | 2019-52-110 |
| 6/11/2021 | <input type="checkbox"/> | Interim Review | 2019-113-96 |
| 6/16/2021 | <input type="checkbox"/> | Amendment | 2020-13-52 |
| 6/16/2021 | <input type="checkbox"/> | Amendment | 2020-8 |
| 6/4/2021 | <input type="checkbox"/> | Original | 2021-173 |
| 6/8/2021 | <input type="checkbox"/> | Interim Review | 2019-106-105 |

II. Unfinished Business

Semi-Annual Facility Inspection Program Review Report to IO

Open items and interim status from the semi-annual inspection were reviewed with committee.

III. New Business

A. Adverse Events

5-2021 and 06-2021. The adverse events and associated management plans were reviewed and discussed.

B. ARC SOPs

Aquatic Euthanasia: The Aquatic Euthanasia was updated to include methods that were approved in the 2020 AVMA Guidelines for Euthanasia of Animals. The new methods are easier to use and do not require the use of hazardous chemicals. The SOP was approved following incorporation of the following:

- Change the title to reflect the species utilized(Zebrafish and Xenopus)
- Change this to an IACUC Policy
- Remove physical methods of euthanasia

IV. Full Committee Review
None

VI. AV Update

- A. AV updated the committee on the status of a sick calf that was treated and euthanized on a protocol that is used for food and fiber research. Clarification was requested regarding the agricultural animals reviewed by this IACUC. Post Meeting Note: All protocols involve research that is not NIH funded.
- B. Zebrafish Update: There may be an issue with the zebrafish aquatic housing unit. The AV is investigating the problem and had the animals sent for histology and PCR. The pathologist believes there may be an issue with the system causing infection.

VII. IACUC Update

- A. Animal User and PI Training: The Policy has been updated to include the on-line CITI Occupational Health and Training Research with Animals. It was also brought to the attention of the committee that the statement all staff “including breeding” needs to be corrected. ARC staff perform breeding and are not required to be listed on protocols. If ARC staff perform technical procedures, they are required to be listed on protocols. The policy was approved as edited.
- B. Rodent Survival Surgery Requirements: The Policy was reviewed/discussed and approved pending minor edits.
 - Include additional methods of hair removal- plucking, or use of a razor blade
 - Move the Surgery/Post-Operative Care log documentation requirements to the Rodent Post-Operative Care Policy
- C. Rodent Post-Operative Care: The Policy was reviewed/discussed and approved pending minor edits.
 - Emphasize and bold “Animals must never be placed in direct contact on a heating pads for domestic use by humans”.
 - Include the Surgery/Post-Operative Care documentation requirements

VIII. Continuing Education:

Highlights of OLAW NOT-OD-21-164 Guidance on Flexibilities for IACUC Semi-Annual Inspections was presented to the committee. The content included inspection flexibilities and the differences between AWA species and non-AWA species.

[OLAW Webinars and Podcasts](#)

[IACUC 101](#)

[ICARE workshops](#)

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

12:00 P.M.

** **

Meeting Minutes September 23, 2021

Members Present: MB, RB, JB, RJ, SS, JM, MT, AZ, CM, DK, ND

Members Absent: LM, DC

Guests: LC, KL, RB

Review and approve IACUC Meeting Minutes from August 18, 2021.

The minutes were approved following incorporation of administrative clarifications.

Announcements from the Chair:

I. Protocols Approved Since Last Meeting

| <input type="checkbox"/> | Approval Date | Protocol # | Protocol Type |
|--------------------------|---------------|--------------|----------------|
| <input type="checkbox"/> | 8/16/2021 | 2019-158-95 | Amendment |
| <input type="checkbox"/> | 9/23/2021 | 2020-78-148 | Amendment |
| <input type="checkbox"/> | 9/17/2021 | 2018-37-83 | Amendment |
| <input type="checkbox"/> | 9/2/2021 | 2021-35-81 | Renewal |
| <input type="checkbox"/> | 8/23/2021 | 2020-153-145 | Interim Review |
| <input type="checkbox"/> | 8/25/2021 | 2020-91-149 | Interim Review |
| <input type="checkbox"/> | 8/31/2021 | 2019-49-101 | Amendment |
| <input type="checkbox"/> | 9/9/2021 | 2021-180 | Amendment |
| <input type="checkbox"/> | 9/9/2021 | 2019-164-109 | Amendment |
| <input type="checkbox"/> | 9/14/2021 | 2021-167 | Amendment |
| <input type="checkbox"/> | 9/14/2021 | 2019-50-97 | Amendment |
| <input type="checkbox"/> | 8/11/2021 | 2019-53-111 | Amendment |

II. Unfinished Business

None

III. New Business

A. Adverse Events

06-2021: The adverse event and associated management plan were reviewed and discussed. This involves non-covered species and is not federally funded research. The committee was satisfied the issue was resolved

IV. Full Committee Review

Protocol 181: The PI presented an overview of the proposal to the committee. Motion to return for modification and send to DMR subsequent to FCR. Approved, unanimous. Items to be addressed include but are not limited to:

- Include the IBC Protocol under related protocols, include Pertussis toxin under Biologicals
- Amend IBC protocol to include use of Pertussis toxin in mice.
- Align narrative of Scientific/Project Goals with Experimental Procedures
- Clarify the answer to Applicable Refinement question
- Edit Humane Endpoints
- Indicate animal monitoring of experimental animals will begin on Day 1

V. PAM

Protocol 2021-174 is undergoing PAM. The draft report will be available for the next meeting. Gas scavenging processes and monitoring procedures were discussed.

VI. AV Update

- A. Fish Update: No fish are currently on the system. Additional samples will be collected for PCR.
- B. NHP Status: 3 NHP's have been donated to another university and arrived safely.
- C. Mouse Status Update: During routine health surveillance monitoring, one breeding room was positive for Demodex. Animals are transferred from the breeding room to an experimental room, so Demodex are assumed to be in the experimental room as well.

VII. IACUC Update

- A. Form Edits: Testing is underway to correct form errors and update to version 8.
- B. SAFIPR: It is time schedule the SAFIPR. All members may attend.
- C. CUSP Working Group IACUC Form: The MSU IACUC form is on track with current recommendations for checklists, integrated procedures, and guidelines.

VIII. Continuing Education:

[OLAW Webinars and Podcasts](#)

[IACUC 101](#)

[ICARE workshops](#)

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

12:00 P.M.

** **

Meeting Minutes

October 18, 2021

Members Present: MB, RB, JB, RJ, SS, JM, MT, LM

Members Absent: AZ, DC, ND, CM- alternate, DK- alternate

Guests: LC, KL, JV

Review and approve IACUC Meeting Minutes from September 23, 2021.

The minutes were approved following incorporation of administrative clarifications.

Announcements from the Chair: The chair introduced AR, Jutila research Manager/Laboratory Safety Specialist to the committee. In this role AR will be conducting IACUC Post Approval Monitoring.

I. Protocols Approved Since Last Meeting

| Approval Date | Protocol # | Protocol Type |
|---------------|--------------|----------------|
| 10/13/2021 | 2019-109-112 | Interim Review |
| 10/14/2021 | 2020-12 | Interim Review |
| 10/11/2021 | 2020-78-148 | Amendment |
| 9/30/2021 | 2020-71-146 | Amendment |
| 10/20/2021 | 2021-149-69 | Amendment |
| 10/19/2021 | 2019-56-121 | Interim Review |
| 10/8/2021 | 2019-125-119 | Interim Review |
| 9/29/2021 | 2019-115-116 | Interim Review |
| 9/27/2021 | 2021-174 | Amendment |
| 10/4/2021 | 2020-51 | Amendment |
| 10/19/2021 | 2020-8 | Amendment |
| 10/19/2021 | 2020-13-52 | Amendment |

II. Unfinished Business

Semi Annual Facility Inspection Program Review Update: Chemical and Biosafety signage has not been posted in the ARC.

III. New Business

Adverse Events

None

IV. Full Committee Review

None

V. PAM

PAM protocol 2021-174: The report was reviewed and discussed with the committee. The report was approved pending edits to include compliance with housing densities as stated in the protocol.

VI. ARC SOPs Process

Currently SOP's have been reviewed by the AV and the IACUC. The suggested path forward is to delegate review and approval of ARC SOPs to the AV. The AV will submit significant or substantive changes for ORC to review. SOP's will be reviewed at least once every 3 years by the AV.

VII. AV Update

- A. Frog Status Update: RO water was tested from Leon Johnson source s and the ARC. Testing results revealed the RO water from the Leon Johnson source does not meet specifications. The PI will obtain RO water from the ARC for use with the frogs.
- B. Fish Status: Further testing for fish pathogens is not considered fruitful. As such, the entire fish housing system will be decontaminated, brought back on line, and populated with fish with known health status from a reputable vendor.
- C. Mouse Status Update: Additional testing is ongoing to try to determine the sources of the Demodex. Once the animals have been identified a treatment plan will put in place.

VIII. IACUC Update

- A. Animal User and PI Training Policy Update: The policy was updated to provide further clarification of training requirements. The policy was approved as written. The checklist will be revised and include the personnel to read the protocol, and email templates created to facilitate/clarify the process.
- B. Administration of Analgesics, Anesthetics and Antibiotics in Rodents Update: The policy was updated to include extended release Buprenorphine, Ethiqs XR[®].
- C. Semi-Annual Facilities Inspection Program Review Schedule
Inspection of the ARC and laboratories was completed on Oct. 18th
Program Review: Occupational Health & Safety/Veterinary Care Oct. 25th 10:30 WebEx Program
Review: Institutional Responsibilities November 1 10:00 WebEx
Facility Inspection: JRL – November 4 9:00 am
Facility Inspection: JFLF – November 18th 10:00 am

IX. Continuing Education:

Consideration of Sex as a Variable in NIH Funded Research

A presentation was given regarding the highlights of NOT-OD-15-102 a proposed action was to add a section of the form to explain how relevant biological variables such as the strain, age, and sex of the animals to be used are factored into research design and analysis. Please provide the scientific rationale if only one sex will be used or if neonatal, juvenile, or geriatric animals will be used.

Committee members voiced concerns about adding additional items on the protocol form that add to PI burden. Concerns were raised that the proposal is not applicable to field research. The notice applies to NIH grant proposals and is vetted thoroughly by the NIH prior to funding. Committee members are supportive of addressing the 3 R's and providing scientific justification or rationale for using a particular age or sex of animals for their research. A working group will be formed to come up with a resolution. Members include LM, MT, MB, JB

[OLAW Webinars and Podcasts](#)

[IACUC 101](#)

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INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

12:00 P.M.

** **

Meeting Minutes November 17, 2021

Members Present: MB, RB, JB, RJ, SS, JM, MT, LM, DC, ND, AZ, DK- alternate

Members Absent: CM- alternate,

Guests: LC, KL, JV, LS, JK

Review and approve IACUC Meeting Minutes from October 20, 2021.

The minutes were approved as written.

Announcements from the Chair: LS the VP for Research Development was introduced to the committee. She has assumed the role of supervising the ARC. Committee members introduced themselves.

I. Protocols Approved Since Last Meeting

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| Approval Date ↑ | Protocol # | Protocol Type |
|-----------------|-------------|---------------|
| 10/26/2021 | 2019-158-95 | Amendment |
| 11/16/2021 | 2021-38-86 | Renewal |
| 11/15/2021 | 2020-15-51 | Amendment |
| 10/22/2021 | 2021-181 | Original |
| 11/2/2021 | 2021-183 | Amendment |
| 11/13/2021 | 2020-36 | Amendment |

II. Unfinished Business

Semi Annual Facility Inspection Program Review Update: The final facility inspection is scheduled tomorrow Oct. 18 at 10:00.

III. New Business

A. Subcommittee Sex as a Variable: The subcommittee has determined there is a value to have some questions regarding sex as a variable on the form. A draft template will be presented in the December meeting.

B. Adverse Events
None

IV. Full Committee Review

Renewal Protocol: 2018 -37-83

The AV has reviewed the comments with the PI and investigator conducting the research prior to the meeting. Motion to return for modification send to DMR following FCR. Approved Items to be addressed included:

- incorporating refinements to oral gavage
- adding additional information regarding the use of non-pharmaceutical compounds
- removing experiments that are not expected to be utilized within the next three years.

V. PAM

PAM of protocols that will be conducted in the JRL in early December are being scheduled.

VI. AV Update

- A. Frog Status Update. The PI is obtaining RO water from the ARC for use with the frogs and exploring the possibility of installing a local RO system in the laboratory. Completed/closed
- B. Fish Status: There are no fish on the system currently. As such, the entire fish housing system will be decontaminated, brought back on line, and populated with fish with known health status from a reputable vendor. Completed/closed
- C. Mouse Status Update: Additional PCR testing was positive for Demodex. A treatment plan has been developed for the breeding room. The experimental room will be depopulated.

VII. IACUC Update

- A. Animal User and PI Training Checklist: The revised checklist was reviewed and discussed with the committee. The creation of an IACUC email was suggested. Motion to approve the checklist pending incorporation of the following changes. Approved
 - add a link to an intermediate page that contains species list where courses are selected to facilitate/clarify the process
 - list email as ARC@montana.edu.

The next step is to develop a written process and email templates for the IACUC and ARC and train ARC personnel. LS requested to be invited to the training.

- B. Biohazard and Chemical Hazard signage process: A written process for biohazardous and chemical hazard signage is being developed. Once complete, a training session will be scheduled with the ARC.

C. IACUC Policy Review and Updates:

1. Animal Adoption: The policy was inadvertently omitted from the meeting documents and will be reviewed at the December meeting.
2. Prompt Reporting to OLAW: Motion to approve the policy with correction of a typo. Approved
3. Reporting Animal Welfare Concerns: The policy was discussed. A committee member noted that it is unclear exactly what happens after the investigation process concludes. It was suggested to include links to the relevant policies. A motion was made to table this document and bring it back to the committee with revisions. Approved

VIII. Continuing Education:

When power calculations won't do: Fermi approximation of animal numbers

The article discusses alternative methods for determining animal numbers including feasibility, and wildlife numbers. It was suggested to post this article on the website for a reference for PI's or to add it to the Justification question on the questionnaire. A committee member requested additional time to review the article before a decision is made were to post it.

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INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

12:00 P.M.

** **

Meeting Minutes December 15, 2021

Members Present: MB, RB, MT, JB, ND, RJ, AZ, CM (alternate), DK (alternate)

Members Absent: LM, JM, DC, SS

Guests: LC, KL, JK

I. Protocols Approved Since Last Meeting

| Approval ... | Protocol # | Protocol Type |
|--------------|-------------|----------------|
| 12/10/2021 | 2021-37-83 | Renewal |
| 12/14/2021 | 2021-35-81 | Amendment |
| 11/29/2021 | 2019-93-124 | Interim Review |
| 12/7/2021 | 2020-88 | Interim Review |
| 11/18/2021 | 2020-44-132 | Amendment |
| 11/30/2021 | 2020-51 | Interim Review |
| 11/23/2021 | 2019-57-122 | Interim Review |
| 12/13/2021 | 2021-42-85 | Renewal |

II. Semi-Annual Facilities Inspection/Program Review Report to the IO

The purpose of this meeting was to review, discuss and edit the Semi-Annual Facilities Inspection/Program Review Report to the IO. Motion to approve the report as edited. Unanimously approved with no minority opinion.