



IACUC Meeting Minutes

Central & Waterfront Campus
January 15, 2020

The Institutional Animal Care and Use Committee (IACUC) met from **1:37-3:17 PM** in [REDACTED] room [REDACTED].

The meeting was called to order at 1:37 PM. A quorum was present and the committee was properly constituted.

Welcome & Introductions:

Review of Last Month's Minutes

MOTION: The motion was made and seconded to approve the IACUC minutes as written for the December IACUC meeting. The IACUC voted to approve the motion. (10-In favor, 0-Opposed, 1-Abstained)

Full Committee Review

IP01762	Antidepressant and weight gain
Overview: The protocol studies the relationship between anti-depressants and weight gain. The current modification requests to add a new euthanasia method that is conditionally acceptable by the AVMA guidelines.	
Discussion: The lab will be collecting pancreatic tissue and requires the blood pH to be maintained during euthanasia. The use of anesthetics has shown to change blood pH which would affect the results. Verification regarding personnel proficiency and training may be needed to meet the conditions in the AVMA guidelines. Personnel should be trained by DCM staff and perform the new euthanasia method under supervision for verification of proficiency. The pain category should not change with this new method as long as personnel are trained properly.	
Motion: A motion was made and seconded to send the modification to DMR. The IACUC voted and approved the motion. (11-For, 0-Against, 0-Abstained)	
IP00445	Liver and pancreatic cell therapy
Overview: Lab is requesting an exception to the transportation policy for movement of rodent cages.	
Discussion: The justification for requesting the exception is not scientific in nature. The IACUC recommended that the Researchers get a cart with multiple shelves to avoid having to stack cages during transit.	
Motion: A motion was made and seconded to send the modification to DMR. The IACUC voted and approved the motion. (11-For, 0-Against, 0-Abstained)	

IACUC Policies & Standard Procedures:

- Transport of Rodents on OHSU Central & Waterfront Campuses
 - Introduction of new DCM SOP Transportation of Rodents on the Central & Waterfront Campuses

Motion: A motion was made and seconded to table the policy. The IACUC voted and approved the motion. (11-For, 0-Against, 0-Abstained)

OLAW Correspondence:

- Report to OLAW – deviation from standards in the Guide
 - Failure to provide adequate supply of drinking water due to miscommunication between animal care personnel
 - Resulted in the death of four animals and humane euthanasia of a fifth animal

Motion: A motion was made and seconded to approve the mitigation plan. The IACUC voted and approved the motion. (10-For, 0-Against, 1-Abstained)

Update from IACUC Office:

<An IACUC member left the meeting>

- Semiannual Inspection (draft) Report to IO
- OLAW Annual Report ready for chair & IO signatures (due Jan 31)
- Lab report
- Semi-Annual inspection IACUC Members requested for February 2020 for lab.

DCM Update:**IACUC Continuing Education:**

- Conflict of Interest

<An IACUC member left the meeting>

LSAP Update:

- None conducted for December.

Next Meeting: February 19, 2020

Adjournment: 3:17 PM



IACUC Meeting Minutes

Central & Waterfront Campus

February 19, 2020

The Institutional Animal Care and Use Committee (IACUC) met from **1:30-4:30 PM** in [REDACTED], Room [REDACTED].

The meeting was called to order at 1:32. A quorum was present and the committee was properly constituted.

Welcome and Introductions:

Review of January Minutes:

MOTION: The motion was made and seconded to approve the IACUC minutes as written for the January IACUC meeting. The IACUC voted to approve the motion. (7-For, 0-Against, 6-Abstained)

<Two IACUC members joined the meeting>

DCM Update:

- USDA routine inspection
 - DCM presented a summary of the USDA inspection report on January 21.
- Marmoset
 - The IACUC discussed an adverse event involving a marmoset. Pathology reports indicated the presence of a cranial abscess.
 - The IACUC discussed the potential source of the abscess and methods for improving surgical procedures.
 - The laboratory voluntarily delayed future surgeries until SOPs are reviewed and revised.
- DCM is consulting with the laboratory to modify approved SOPs and align them closely with recommendations of the Association of Primate Veterinarians. DCM will observe the next surgical procedure once the SOPs have been reviewed and revised.

Full Committee Review

IP00907	Immune-based therapeutic approaches for acute myeloid leukemia
<p>Overview: This three year renewal uses mice as a model to study therapies for acute myeloid leukemia. Overall, the protocol was well written with a strong discussion of the 3-Rs. The protocol was called to full committee review due to a request for delayed weaning of pups.</p> <p>Discussion: Delayed weaning in the protocol was to be augmented by nutritional supplementation with kitten milk replacer powder. The investigator's prior institution routinely used this supplement, and described its use in published research reports. Veterinarians clarified that KMR is not a sterile product, and they would recommend using sterile, mouse-specific supplements. The laboratory needs to specify the removal of a first litter of pups prior to the birth of a second litter as per OHSU IACUC policy.</p> <p>Motion: A motion was made and seconded to send the protocol to Designated Member Review. The IACUC voted and approved the motion. (15-For, 0-Against, 0-Abstained)</p>	

IACUC Policies & Standard Procedures:

- Transfer Stations and Biologic Safety Cabinets Certification
 - EHS wanted to include requirements for certifying chemical fume hoods to match with information in the OHSU Laboratory Safety Manual.
 - The IACUC office will add the safety manual to the references section of the policy.

Motion: A motion was made and seconded to approve the policy with edits. The IACUC voted and approved the motion.
(15-For, 0-Against, 0-Abstained)

- Humane Intervention and Endpoints for Laboratory Animals

Motion: A motion was made and seconded to approve the policy as written. The IACUC voted and approved the motion.
(15-For, 0-Against, 0-Abstained)

- Modifications to an Animal Research Protocol

Motion: A motion was made and seconded to approve the policy as written. The IACUC voted and approved the motion.
(15-For, 0-Against, 0-Abstained)

- Surgery, Multiple Survival

Motion: A motion was made and seconded to approve the policy as written. The IACUC voted and approved the motion.
(15-For, 0-Against, 0-Abstained)

- Pathogen Screening of Biological Material to be introduced into Rodents

Motion: A motion was made and seconded to approve the policy as written. The IACUC voted and approved the motion.
(15-For, 0-Against, 0-Abstained)

OLAW Correspondence:

- Final report to OLAW 1/30/2020
 - The Animal Care and Use Director provided an overview on the report to OLAW regarding the death of the prairie voles. OLAW's response indicated the institution had appropriately managed the deviation from the standards and no further actions were required at this time.

<An IACUC member left the meeting>

Update from IACUC Office:

- Expanding period for semi-annual inspections to April/May and Oct/Nov
 - Inspections will still occur at six month intervals but will occur over two-month spans
 - No impact on the schedules for the semi-annual reports
- Signing the Semiannual Report to the IO
 - The IACUC signed off on the letter to the IO

Motion: A motion was made and seconded to approve the letter as written. The IACUC voted and approved the motion.
(14-For, 0-Against, 0-Abstained)

- Update: fish non-standard housing pilot study conducted
 - The Assistant Research Integrity Officer provided an update on a previously approved pilot study

- Average measurements for zebrafish mortality in the experimental conditions were the same as mortality under conditions in previous publications.
- There was a question regarding the step-wise procedures for euthanasia. The ARIO will clarify with the PI.
- The veterinarian noted that Finquel, a trade name for MS222, should be taken off the protocol with the next 3-year renewal.
- Non-affiliated member attendance: some good news
 - The ARIO reported that the non-affiliated members had a high attendance record for both campuses and thanked them for their service.

IACUC Continuing Education: none

LSAP Update:

- January
 - 22 labs were inspected – no issues

Next Meeting: March 18, 2020

Adjournment: 3:05



IACUC Meeting Minutes

Central & Waterfront Campus
March 18, 2020

The Institutional Animal Care and Use Committee (IACUC) met from **1:30-4:36 PM** via teleconference.

The meeting was called to order at 1:30 PM. A quorum was present and the committee was properly constituted.

Welcome & Introductions: 3rd year vet students: [REDACTED]

Review of Last Month's Minutes:

MOTION: The motion was made and seconded to approve the IACUC minutes as written for the February IACUC meeting. The IACUC voted to approve the motion. (13-In favor, 0-Opposed, 3-Abstained)

Full Committee Review:

IP02957	Molecular and physiological basis of mechanosensitive ion channels
Overview: The overall research goal is to define how specific proteins detect and respond to physical stimuli, and understand how this response governs mammalian physiology.	
Discussion: The Committee reviewed and discussed the various established behavioral assessments that are used to study the animals' response to physical stimuli. Specifically, the IACUC would like the PI to include the years of experience working with this model and clarify how pressure is controlled for consistency in the pinprick assay. Lastly, the Committee would like the PI to address whether similar cage designs are utilized for the different assays and any effects this may have upon the studies or the stress experienced by the animals.	
Motion: A motion was made and seconded to send the modification to DMR. The IACUC voted and approved the motion. (16-For, 0-Against, 0-Abstained)	
IP01839	Using zebrafish as a model to evaluate circulating tumor cells
Overview: With this modification the PI is requesting to add a new location outside of DCM.	
Discussion: The Committee would like the PI to estimate how often animals will be transported from [REDACTED] to [REDACTED] for imaging during the 8 day to 3 month period. The PI should also address if there are known stresses due to transport that may result in mortality.	
Motion: A motion was made and seconded to send the modification to DMR. The IACUC voted and approved the motion. (16-For, 0-Against, 0-Abstained)	
<2 IACUC members joined the meeting>	
IP00360	Delivery of therapeutics using nanoparticles to treat cancer tumor and organ fibrosis
Overview: This 3-year renewal aims to study the delivery of siRNA and drugs using nanoparticles to treat cancer tumors and organ fibrosis in the mouse model.	
<An IACUC member left the meeting>	
Discussion: The protocol includes exceptions to institutional IACUC policy, including single housing and wire bottom caging, both of which were well justified. Additionally, the protocol requests that the total mass of tumors may exceed 10% of the mouse's body weight. In instances where these exceptions may occur, the PI should establish a baseline body condition score and estimate the approximate number of mice in which multiple tumor burden may exceed 10% of the animals' body weight.	

Once multiple tumors have been identified or if ulcerated or necrotic tumors have been identified, mice should be monitored daily. The protocol also includes serial blood collection. The PI should list personnel performing the procedures and clarify that only personnel with documented training and demonstrated proficiency will be performing serial retro-orbital blood collection procedures. Lastly, the protocol includes fasting. The PI should provide additional information about how the duration of fasting was determined and whether the duration could be decreased.

Motion: A motion was made and seconded to send the modification to DMR. The IACUC voted and approved the motion. (17-For, 0-Against, 0-Abstained)

<An IACUC member returned to the meeting>

IACUC Policies & Standard Procedures:

Review & Reporting of Animal Welfare Concerns

- Policy due for 3-year review
- Administrative changes only

Motion: A motion was made and seconded to approve the policy as written. The IACUC voted and approved the motion. (18-For, 0-Against, 0-Abstained)

Transportation of Rodents on OHSU Campus

- Policy due for 3-year review
- DCM to have authority to oversee transportation
- If a personal vehicle is requested then it comes before the IACUC
- Rabbits described in the policy have been removed since the policy applies to rodents only

Motion: A motion was made and seconded to approve the policy with incorporated changes. The IACUC voted and approved the motion. (17-For, 0-Against, 1-Abstained)

Submental blood collection

- New standardized procedure
- Novel method-currently described in mice only

Motion: A motion was made and seconded to approve the standard procedure as written. The IACUC voted and approved the motion. (18-For, 0-Against, 0-Abstained)

OLAW Correspondence:

- Report to OLAW – unapproved activity – euthanasia of rats
 - Corrective measures have been identified
 - Reviewed draft memo to IO

Motion: A motion was made and seconded to report the incident to OLAW via the IO. The IACUC voted and approved the motion. (18-For, 0-Against, 0-Abstained)

- Report to OLAW – USDA citation during enhanced oversight
 - Response from OLAW was reviewed with the Committee

Update from IACUC Office:

- New format for 2-Day list presented
- Senate Bill 638 update
- Reviewed lab report

DCM Update:

- COVID-19 plan
 - Updates are being communicated as needed
 - Levels of research operations reviewed

IACUC Continuing Education:

- OLAW Guidance on Use of Telecommunications for IACUC meetings

LSAP Update:

- No significant findings to report

Additional Items from the Floor

Flexibility for core facilities

- Core Policy updated to reflect the following:
 - Approve transfer of animals from an investigator's lab through DCM to the [REDACTED] for cryopreservation without requiring the investigator's protocol to include the name of the core facility director and description of the euthanasia. Animals to be euthanized at the core facility must be accounted for in the investigator's protocol.

Motion: A motion was made and seconded to approve the policy with incorporated changes. The IACUC voted and approved the motion. (18-For, 0-Against, 0-Abstained)

Memo to OHSU from IACUC regarding research concerns for COVID-19 plan

- IACUC reviewed and discussed

Next Meeting: April 15, 2020

Adjournment: 4:36pm



IACUC Meeting Minutes

Central & Waterfront Campus

April 15, 2020

The regular meeting is scheduled from **1:30-4:30 PM** via teleconference

The meeting was called to order at 1:32. A quorum was present and the committee was properly constituted.

Welcome and Introductions:

Review of March Minutes:

MOTION: The motion was made and seconded to approve the IACUC minutes as written for the March IACUC meeting. The IACUC voted to approve the motion. (16-In favor, 0-Opposed, 2-Abstained)

Full Committee Review

IP03077	SARS-CoV-2 Susceptible Mouse Alleles by i-GONAD (COVID-19 Research)
<p>Overview: Initial protocol to develop a transgenic mouse model for SARS-CoV-2. The protocol was brought to full committee for discussion of biosafety issues. There is a large demand for this particular model.</p> <p>Discussion: The lab has extensive experience creating transgenic mouse lines. Tail vein blood collection on pups was reviewed and deemed acceptable by the veterinarians. No animal welfare concerns.</p> <p>The main biosafety concern is how to respond if animals test positive for SARS-CoV-2. Proper safety and containment practices would mitigate the risk of accidental infection of animals from animal care staff. If animals were to test positive to SARS-CoV-2, they could potentially infect other animals and animal care staff. Micro-isolating cages could mitigate the risk, but micro-isolating caging isn't currently available in the facility.</p> <p>The IBC will evaluate risks and advise on best practices. After IBC approval, the IACUC will be updated on the status of the protocol.</p> <p>Motion: A motion was made and seconded to send the protocol to Designated Member Review. The IACUC voted and approved the motion. (18-For, 0-Against, 0-Abstained)</p>	

IACUC Policies & Standard Procedures:

- Tissue Collection for Genotyping Genetically Altered Mice and Rats

Motion: A motion was made and seconded to approve the policy as written. The IACUC voted and approved the motion. (18-For, 0-Against, 0-Abstained)

OLAW Correspondence:

- Request for waiver of 6-month semi-annual facilities inspection requirement
 - Waiver has been approved
 - IACUC office will inform the IACUC on inspection process updates
- Program review as planned

Update from IACUC Office:

- Cage change during Modified Operations
 - Informing IACUC of cage change modifications during crisis
- IACUC office staffing
- Animal Research Task Force
 - 82 exemption requests have been submitted to the task force.
- Additional information has been added to the eIACUC landing page
- IACUC office is working remotely
- SAEN letter to Dr. Jacobs and Oregonian article
 - The IACUC vice chair updated the IACUC on a recent animal rights activist letter to OHSU's president. OHSU spoke with the Oregonian addressing this concern.

DCM Update:

- Current status
 - Fully staffed
 - Supplies are ok
 - Donated PPE to clinical staff

IACUC Continuing Education: none

LSAP Update:

- No issues

Next Meeting: May 20, 2020

Adjournment: 3:30



IACUC Meeting Minutes

Central & Waterfront Campus
May 20, 2020

The regular meeting is scheduled from **1:30-4:30 PM** via teleconference.

The meeting was called to order at 1:32pm. A quorum was present and the committee was properly constituted.

Welcome & Introductions: None

Review of Last Month's Minutes:

- Update to minutes format
- Administrative items will appear on the agendas for IACUC member review

MOTION: The motion was made and seconded to approve the IACUC minutes as written for the April IACUC meeting. The IACUC voted to approve the motion. (18-In favor, 0-Opposed, 0-Abstained)

Full Committee Review: None

IACUC Policies & Standard Procedures: None

OLAW Correspondence:

- Update on Assurance
 - Renewal submitted in January
 - Clarifications regarding training programs and accrediting veterinary schools requested
 - Substantive change request:
 - Remove CWC Non-Affiliated (NA) member from WC Committee as the alternate NA member and vice versa
 - Serving on one committee establishes an affiliation
 - Waiting to hear whether the additional changes have been accepted
 - IACUC Director to follow-up

<One member left the meeting>

Update from IACUC Office:

- Semiannual memo to the IO with corrected typos or improper entry information.
 - The IACUC leadership met with the Institutional Official (IO) to review results and recommendations
 - One typographical error was identified and two clarifications were required
 - Making a change to the report will require a Committee action
 - The revised document is posted for detailed review
 - A signature page will be circulated to indicate approval of the revised document
 - Changes are as follows:
 - Facility inspection report section

- Failed to classify one item as major or minor, updated to minor
- Finding changed from non-pharmaceutical grade citation to expired drug
- Noted that training records for all laboratory personnel should be readily available for IACUC

MOTION: The motion was made and seconded to approve the amended memo to the IO as written. The IACUC voted to approve the motion. (17-In favor, 0-Opposed, 0-Abstained)

- Changes in IACUC office staffing
 - Specialist has resigned from the Institution
- Changes in IACUC membership
 - One member stepping off the Committee
- Public records requests
 - Have had a number of these requests recently
 - Specifically asking for notifications to the veterinarian for animals euthanized due to Covid-19
 - Inconsistencies between department and institutional guidelines
 - Consider memo to IO about focus of COVID-related messaging
 - IACUC Director to draft memo
- Lab report
 - Included procedures for checking animals during modified operations
 - Several SOPs were revised and approved by DCM
 - Included guidelines from APV
 - Timeline for lab activities
 - Health logs-no change from previous reports

<One member rejoined the meeting>

<One member left the meeting>

DCM Update:

- Return to Research
 - Overview: Laboratory Research Restart Guidelines
 - Return to Research Plan – Basic Science/Laboratories
- Lab diet expiration dates
 - Per the *Guide*, lab diets expire 6 months from mill date
 - Manufacturer did some research and found that rodent diets can last up to 9 months from mill date
 - DCM has additional feed and wants to extend storage based on nutritional quality assurance from the manufacturers
 - Will extend diets to 9 months where appropriate, with the exception of custom diets (expiration dates are typically included for these)
 - Guidance will be posted in DCM
 - Exception letter will be sent to DCM and kept on file

MOTION: The motion was made and seconded to approve the global exception. The IACUC voted to approve the motion. (17-In favor, 0-Opposed, 0-Abstained)

IACUC Continuing Education:

- Webinar: “How Animal Rights Activists Are Leveraging the COVID-19 Pandemic and Why Research Organizations Should Pay Attention”
- Webex on compassion fatigue May 29 1:30pm
 - Invitation will be posted on weekly research message

LSAP Update:

- None conducted in April

Next Meeting: June 17, 2020

Adjournment: 2:57pm