

University of Washington
April 21, 2016 IACUC Meeting

| | | | |
|------------------|----------------|------|----|
| Members Present: | AB | CJ | MB |
| | AF | JB | MG |
| | AS | JM | MT |
| | CG (Scientist) | JPVH | PB |
| | CG (Public) | JS | SL |
| | CH | JPI | TB |
| Members Absent: | JM | KL | ML |

Opening Business

The IACUC Chair called the meeting to order at 2:30pm.

Approval of the IACUC Meeting Minutes

The IACUC Chair called for the approval of the March 17, 2016 IACUC meeting minutes.

Motion: A motion to approve the minutes as written was made and seconded.

Discussion: None

Vote on the Motion: The meeting minutes were approved with 13 members voting in favor and five abstentions.

Protocol Review

Gallagher 4096-01 V.65, “ Molecular and Biochemical Effects of Pollutants in Salmon” – TB summarized study & sig change, explaining why the FCR was called for. Member of the lab was present for questions.

TB summarized the study and Significant Change and explained that an FCR was called for because of the request to include an LC50 dose. A member of the lab was present to answer any questions.

This is an environmental study with the goal to elucidate design principles for less-toxic alternatives to industrial compounds.

The zebrafish embryos/larvae, are exposed to chemicals from ~6 hours post-fertilization to 96 hours post-fertilization (90 hr. exposure). Zebrafish typically hatch between 48 hpf and 72 hpf so some will be undergoing exposure when they hatch. The sub-lethal dose selected is 1%, 5%, 10%, 20%, and 40% of the LC50 dose determined by the collaborator. The Gallagher lab relies on their collaborators to provide information on the LC50 dose for the different chemicals however for one chemical the dose appears to be significantly off.

For this significant change they are adding

1. 17 additional “green” chemicals to be screened and an additional concentration of each chemical (1% of LC50)

These chemicals are added to larva and two outputs are measured:

Whole body gene expression

Tissue specific expression with ISH (in situ hybridization)

University of Washington
April 21, 2016 IACUC Meeting

A subset they evaluate:

- Lateral line hair cell damage
 - Olfactory ability
2. Adding a fish with mutations in the gene for nrf2 to look at specific effect related to the expression of this gene. (nrf2 = protein that responds to oxidative stress/free radicals by increasing the production of anti-oxidants; nuclear-factor erythroid 1-related factor 2)
 3. Adding an LC50 experiment for one (hydroquinone) of the 25 chemicals they will be screening.
 - a. Collaborator's typically provide this dose
 - b. Initial dose (5% of this LD50) resulted in death of 100% of the embryos
 - c. Suspect that it is related to strain of zebrafish
 - d. How do?
 - I. 4 replicates of 10 embryos/larvae per tx, 7 point concentration range (10x4x7=280 larvae)

Discussion: The Committee discussed the proposed study and the effect on the fish embryos/larva, including potential pain perception. Additionally, pain perception was discussed. The lab member left the meeting after this discussion.

Motion: A motion was made and seconded to approve the Significant Change.

Vote on the Motion: The Significant Change was approved unanimously with 18 members voting in favor.

Attending Veterinarian's Report

Facility issues:

- **Humidity:** Humidity has been low in several centralized and decentralized animal facilities, although it is improving.
- **Temperature and lights:** No issues reported.

Protocol Monitoring: There are 15 protocols on the veterinary monitoring program. Eight involve surgery, seven other procedures including one that involves tumor monitoring and two that involve monitoring of behavioral tests. One that involves surgery in NHPs was added last month following a post-surgical abscess. One surgery has been observed, and there were no concerns about aseptic technique.

Adverse events: None

HBA Committee:

Finishing seizure protocols. Still have two to consider from last time.
Finalized SOP for how decisions are communicated and processed from the committee.
Reviewed two additional protocols to consider to categorize as unrelieved pain and distress (footpad injections of adjuvants in mice, arthritis protocol in mice).
Discussed clinical cases and adverse events.

OAW Director's Report – Summary slide in folder

University of Washington
April 21, 2016 IACUC Meeting

The Committee was reminded that the Deficiencies at a Glance spreadsheet was in the meeting folder for review.

Hoverboard - AS updated the IACUC on the status of HoverBoard.

UW Structural Compliance Program – DA (see presentation in folder)

The committee had questions regarding the composition of the compliance group and how the group would interact with the different departments through the University. It was explained that there would be an emphasis for standardization of processes and methods of communication.

IACUC SOPs and Policies:

Guillotine Maintenance – LI explained the changes and passed around the polyethylene tubing, which would be used as part of the proposed process changes. TB read the proposed changes to the policy for the Committee. MT asked if the Committee had an ability to define a finite number of animals rather than the general number of between 15-20 animals prior to sharpening the blade. TB replied that the actual number varies by device. CG asked how the tubing was selected and it was explained that it was based on the UW shop recommendations as well as what other institutions are doing.

Motion: A motion was made and seconded to approve the changes to the SOP.

Vote on the Motion: The SOP was approved unanimously with 18 members voting in favor.

Reassessment of Previous Noncompliance – Dr. Sullivan explained that the final item on the agenda was the review of a non-compliance with protocol #4262-01 due to an unapproved survival surgery that occurred on July 15, 2014, and resulted in the suspension of an employee's privileges to work with animals at the University of Washington. New information had become available to share with the committee before reconsideration of the previous decision.

As permitted by the Washington State Open Public Meetings Act, the Committee went into Executive Session in order to consider the issue involving an employee. Anyone who was not an IACUC member, or alternate, was required to leave the meeting, and the remote feed was turned off. The Committee would reconvene at 4:03pm. The Committee came out of executive session at 4:03pm but was not able to reconvene the meeting until 4:13pm due to technical difficulties. The Committee had not completed their discussion so went back into Executive Session and reconvened the meeting at 4:45pm.

Motion: A motion was made and seconded to suspend the employee from working with animals. The IACUC defined the parameters of the employee's suspension from working with animals for a period of 2 years from the date of the incident to July 15, 2016. The IACUC acknowledges that the employee had participated in bioethics training and also defined additional parameters that must be met before the suspension will be lifted. The employee must participate in retraining, including completion of the rat and mouse handling classes, the UW Animal Use Laws and Regulations training course and any other training deemed necessary (this would include Surgery Ia, and Surgery II, if she will be performing surgery). The employee will be assigned a veterinary

University of Washington
April 21, 2016 IACUC Meeting

monitor to work with her for at least 6 months or longer as recommended by her veterinary monitor. The veterinary monitor will provide reports as necessary to the IACUC. Additionally, the employee will be required to attend 6 IACUC meetings so that she can better understand the regulatory requirements and processes associated with working with animals.

Discussion: The Committee continued to discuss the terms of the suspension and that monitoring by a veterinarian would continue, even if she joined another lab. The Committee also felt strongly that her success would be impacted by the support provided by the PI and members of the lab, and suggested that a letter be sent to the PI to include this concern. This matter was decided in a separate motion.

Vote on the Motion: The motion passed with 15 members voting in favor and 2 members opposed. MT was not present for the vote.

Letter to the PI: The Committee wanted the letter to the PI to stress that giving the employee the opportunity to have her animal use privileges reinstated is contingent on continual support from the PI and the members of the lab to maintain compliance with all animal use protocols and any other compliance-related areas that the lab is responsible for.

Vote on the Motion: The motion passed unanimously with 17 members voting in favor.

Closing Business:

The Meeting was brought to a close at 5:07 pm. The floor was opened to public comment.