Members Present: T. Brabb  G. Grue  J. Muster
A. Burich  C. Hothckiss  M. Newman
E. Clark  P. Lang  J. Stoloff
S. Cunningham  S. Libby  J. Sullivan
C. Goodwin  M. Lucas  M. Tetrck
M. Gough  G. McLean

Members Absent: C. Carrier  S. Henderson  A. Leache
J. Clark  L. Kinman

Opening Business:
The IACUC Chair called the meeting to order at 2:29pm.

Protocol Review:
Dr. Fuller 4266-04 V.14 “Immunogenicity and Efficacy of Therapeutics SIV Vaccines in Nonhuman Primates”

The purpose of the research is to study a fatal inherited condition in people called Giant Axonal Neuropathy (GAN) that causes progressive nerve cell death due to the absence of function of a protein called gigaxonin. Affected patients slowly lose motor function, become quadriplegics and eventually die in their twenties or thirties. Of note, there is currently no treatment or cure for this disease. The lab is funded by Hannah’s Hope Fund, a not-for-profit public charity founded by the parents of an 11-year-old GAN patient named Hannah. Hannah’s Hope Fund funded studies that showed an adeno-associated virus gene therapy approach holds promise to help patients’ cells reverse the damage the disease causes by delivering a functional version of gigaxonin, and has potential to treat or cure the disease.

There is concern that patients’ immune systems may destroy treated cells, however, so the Fuller lab is conducting preclinical studies in non-human primates that test two immunosuppressive tolerization strategies to prevent patients from rejecting the treatment. This research tests possible options for Hannah and three other patients whose treatments will follow hers. Hannah is declining very rapidly and needs treatment by January 2015. Importantly, clinical trials for Hannah will begin in November or December 2014 based on this tolerization study.

The Significant Change, which was for the addition of one sedation timepoint in order to ensure uncontaminated samples, was summarized for the Committee. The PI was present to answer any questions raised by the IACUC.

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

Discussion: A question was raised regarding how many animals the Significant Change would apply to. The PI replied that it applied to 12 monkeys total. A member commented that it was nice to hear about a protocol that has such an important clinical application.

Vote on the Motion: The Significant Change was approved unanimously with 17 members voting in favor.

Attending Veterinarian’s Report:
Facility issues:

Humidity: No out of range humidity issues have been reported.

Temperature: No out of range temperatures have been reported.

Adverse events:

On September 3, 2014, a facility manager was checking procedures rooms in one of the centralized rodent animal facilities on a routine monthly check, and discovered a mouse live-trap on the floor of one of the procedure rooms. A dead mouse was in the trap. The traps in that facility were stored in an area where they were accessible by anyone in the facility and presumably someone borrowed the trap, loaded it, and placed it in the procedure room, but did not continue to monitor it. DCM has an SOP to monitor traps daily if they are placed. Live traps are typically used to recover dropped research mice. DCM has moved the traps in all facilities to less accessible locations to prevent such an occurrence in the future. Dr. Brabb passed a live trap around for the Committee to look at. The issue has been reported to OLAW.

Discussion: The Committee discussed the proper SOP for the use of traps and also discussed the possible circumstances associated with this event.

Protocol #3441-05: The purpose of the protocol is to study therapies for treatment of glioblastoma (tumor of the brain) using a mouse model. The members of the laboratory wanted to change how the treatment (a nanoparticle) was being delivered from a systemic method to an intracranial delivery method. Some time ago, a significant change was drafted to make this change but was never submitted. When the current post-doc wanted to change the route in his therapy trial to intracranial, the lab members mistakenly thought the new route was approved. Thus, an unapproved surgery on August 25, 2014, was done on five mice to administer the nanoparticles intracranially. Appropriate technique and analgesics were used, and the significant change has been submitted. This issue has been reported to OLAW.

Motion: A member moved to send the PI a letter of counsel asking her to identify a plan for better tracking and communication to her lab members of changes in the protocol. The letter should encourage the PI to utilize the IACUC liaisons in this process. A member seconded the motion.

Discussion: A question was raised as to how the issue was discovered. The Committee was informed that the mice had clinical signs associated with the glioblastoma and veterinary services discovered what had happened when responding to a sick animal report. Members of the group thought it was approved. The Committee discussed levels of response to the group from the Committee. The PI was aware that she needs a better method for ensuring that members of her lab know what is approved.

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

Protocol Monitoring:

It was reported that there are 17 protocols on the veterinary monitoring program. No protocols have been added to or removed from protocol monitoring this month, and many of protocols on veterinary monitoring were inactive during this time period. Those that were active progressed as expected, thus there are no detailed updates this month.

Protocol Review Continued
Dr. Yang 4120-01 V.50 “MR Imaging of Stem Cell-Gene Therapy of Atherosclerosis”

This protocol uses interventional radiology to develop enhanced techniques for chemotherapeutic delivery for different types of cancer. Last week, after a pig was anesthetized, but prior to the surgery, the MRI broke. The purpose of this significant change is to allow a second anesthetic event for an animal if there is mechanical failure of the imaging equipment prior to any surgery being performed. The group is asking for only one additional anesthetic event and this will be done only if the veterinary staff feels it is clinically appropriate. The timing of the second event will be evaluated by the veterinary staff as to potential harm to the animal. The group agrees they will confirm that the machines are working prior to anesthesia to minimize the potential for needing a second anesthetic event.

**Motion:** A motion for approval of the Significant Change was made and seconded.

**Discussion:** A question was raised as to whether the group had checked the MRI prior to the start of the procedure. It was noted that the MRI was in use prior to the initiation of the experiment and was functional.

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

**Approval of the August 21, 2014 IACUC Meeting Minutes**

The IACUC Chair called for approval of the minutes.

**Motion:** A motion for approval of the Meeting Minutes was made and seconded.

**Discussion:** None

**Vote on the Motion:** The minutes were approved with 11 members voting in favor and 6 members abstaining.

**Protocol Review Continued**

**Dr. Maggio-Price 2436-12 V.140 “Inflammatory Bowel Disease, Colon Cancer and Infectious Agents”**

It was explained to the Committee that the purpose of the protocol is to study viral and bacterial triggers involved in the development of intestinal inflammation and cancer using mouse models. One area of interest for the group is Mouse Norovirus (MNV) Infection, a relatively recently discovered mouse virus that is closely related to human Norovirus and can be a complicating factor in disease models. In general, MNV does not cause clinical disease in mice, except for a few strains of virus in a few unique strains of mice. The group recently started an experiment examining how two different strains of virus affect one of these susceptible strains of mice. Based on previous literature, their original plan was to weigh the mice 6 out of 7 days of the week but the handling associated with weighing the animals is stressful to them. This change proposes to drop that weighing to once weekly, as they are not finding any significant weight changes, even in the one mouse that did develop clinical disease. They will continue to monitor the mice at least once daily visually during the week and one day on the weekend. They have included a caveat that if animals are identified as losing weight (>10% BW loss), they will be weighed more frequently.

**Motion:** A motion for approval of the Significant Change was made and seconded.
Discussion: A member asked how many experiments have been done. A member replied that they are halfway through the experiments and are basing the request for the Significant Change on the data.

Vote on the Motion: The motion passed unanimously with 16 members voting in favor. One member recused herself from the vote.

Dr. Daniel, 4354-01 “Muscle’s Energetic Versatility Arises From Its Crystalline and Multi-Component Structure“

This new protocol involves euthanasia of bullfrogs in order to study the molecular basis of force generation in muscle. The group proposes to euthanize the frogs by double pithing. Double pithing involves mechanical disruption of the brain and spinal cord, and is used rather than decapitation in amphibians because the CNS of amphibians is tolerant to hypoxic and hypotensive conditions. Thus decapitation alone is not believed to result in rapid loss of consciousness. Double pithing has been widely used for frogs in studies such as this one, where chemical euthanasia (anesthetic overdose) or anesthetizing the animals prior to physical euthanasia would interfere with the research. Other groups have been approved and trained for double pithing of unanesthetized frogs at UW in the past, when there was scientific justification.

The reason this was being discussed in full committee review was that the proposed euthanasia method of double pithing of unanesthetized frogs is not listed as an acceptable euthanasia method in the 2013 Edition of the AVMA Guidelines for the Euthanasia of Animals, although it is also not listed as an unacceptable method. The Guidelines state that pithing of unanesthetized frogs is "strongly discouraged". Pithing is not included in the Appendices at the end of the document that list acceptable, acceptable with conditions, and unacceptable methods. The previous (2007) version of the AVMA Guidelines was much clearer on the issue, and classified pithing of unanesthetized frogs as a conditionally acceptable method.

The PI was asked to provide detailed scientific justification for why the frogs cannot be anesthetized prior to double pithing, and has provided this justification in Item 27 of the revised protocol.

In the opinion of the presenter, the euthanasia method proposed is the most appropriate method for the species that will not interfere with the proposed research.

Motion: A motion for approval of the protocol was made and seconded.

Discussion: A question was raised as to who would train the group. It was explained that they would be trained and certified by the Aquatic Veterinarian through the Animal Use Training program. It was stressed that the procedure was not new to the UW, it was just being reviewed because of the change in the AVMA guidelines that left unclear the classification of pithing without anesthesia. The Committee discussed the method proposed.

Vote on the Motion: The protocol was approved with 15 members voting in favor and 2 members opposed.

Office of Animal Welfare Director’s Report

Copy to Committee Report
Since the August 21, 2014 meeting there were 90 items that were sent to the IACUC. There were 4 that were urgent and were sent via email and the rest were posted on Catalyst. There were 11 new projects and 30 renewals of which 5 were 3-year renewals requiring a complete Project Review Form. There were also 49 significant or minor changes. The IACUC has completed its approval process for most of these items, although some are awaiting final approval due to holds for items such as EH&S approval, OH review or revisions from PI’s.
Liaison Trend Report
It was reported that 49 meetings occurred with research groups. Of those meetings, 96% of the groups had no issue found. The liaisons assisted with 13 administrative changes and 4 protocol amendments and 3 protocols were archived.

Upcoming Workshops to assist researchers with protocol development:

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday, September 25, 2014</td>
<td>11:30-1:30pm</td>
<td>HSB E202 (Turner Conference Room)</td>
</tr>
<tr>
<td>Monday, September 29, 2014</td>
<td>1:00-3:00pm</td>
<td>SLU3.1 E130B</td>
</tr>
</tbody>
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Housekeeping Items:

Training:

- On-line IACUC member training – It was reported that less than a third of our members have completed the on-line course and a notification would be sent to members as appropriate.
- Feb. 23, 2015 – The annual NWABR IACUC member training is scheduled for February 23, 2015. Registration information will be coming out towards the end of the year.

Updates:

- Evaluation of database options for protocol submission is in progress.
- IACUC SharePoint site – A site will be created to store relevant documents for IACUC members.

Site Visits:

- Attire – Please do not wear shorts or open toed shoes on site visits. The option of supplying safety glasses and lab coats for site visitors was discussed.
- Interactions – It was explained that the OAW Director had received several recent comments that site visitors are perceived as being intimidating to the research groups. The OAW Director asked that the site visitors please make an extra effort to be friendly and helpful through the inspection process.

Project Review Form:

The updated project review form was circulated to the committee prior to the meeting. A member from OAW was in attendance in order to summarize the changes to the form so that the Committee could decide whether to move forward with this edited form or not.

The OAW Director noted that there had been discussion regarding making both versions of the PRF available on the OAW website - one being the new form that was edited and piloted last year and the other one being our previous form with or without the edits.

Discussion: Members of the Committee indicated that they couldn’t see what changes were made because track changes was not used. A member of OAW explained the process that was used to request feedback and incorporate
suggested changes. A member of the Committee highlighted some of the changes that were made, that were concerning.

It was suggested that a copy with the highlighted changes be sent to the IACUC and a meeting of the subcommittee be held to review the changes and make recommendation to the IACUC at the next meeting.

The OAW Director commented that the OAW had put forth a lot of effort in revising the form and commented that perhaps, since we are moving toward an electronic database, the form revision be stopped.

The IACUC Chair asked the Committee what they would like to do. Members indicated that there are some things that need to change due to regulatory issues. The Committee felt that they wanted to review a final version at the next meeting. The subcommittee would meet and review the changes and make recommendations. The Committee felt that the subcommittee was properly constituted in order to adequately review the changes.

The Committee also discussed the use of the new PRF and it was confirmed that it would be available to the PIs for use.

**Site Visit Deficiency Completion Deadline Extension Requests:**

- Site: WaNPC I-Wing Vivarium J025  
  Deficiency: Chipped MMA floor needs to be sealed and repaired. Paint peeling on ceiling and wall also needs repair.

  The Primate Center would like to extend the deadline in order to coordinate shutting down the cage wash for repair.

  **Motion:** A motion to extend the deadline to March 31, 2015 was made and seconded.

  **Discussion:** A member summarized why the extension request was necessary.

  **Vote on the Motion:** The site visit extension was approve unanimously with 17 members voting in favor.

- Site: DCM Health Sciences T-wing Vivarium Dirty Cage Wash  
  Deficiency: Paint peeling on the ceiling needs to be repaired.

  Facilities Services would like to extend the deadline for the Dirty Cage Wash repair in the T-Wing. The proposed fix is short term and will eventually fail, so Facilities Services is currently investigating a longer-term strategy with the help of the Campus Engineering group to assist with providing a recommendation for a more permanent fix.

  **Motion:** A motion for approval of extending the deadline to March 31, 2015 was made and seconded.

  **Discussion:** The Committee discussed the specifics of the repair.

  **Vote on the Motion:** The deadline extension was approved unanimously with 17 members voting in favor.

**Review of Site Visit Deficiencies and Extension Requests:**

- Issues related to Occupational Health: It was noted that at the last meeting, the Committee discussed how to deal with facility issues discovered on IACUC site visits, that were relevant to, or more properly handled by EH&S. OAW
met with EH&S and it was determined that these EH&S issues would be assessed by EH&S and they would make recommendations back to the IACUC on appropriate corrective actions and timelines.

- **Review and Approval of Extension Requests:** The Committee discussed the proposed process for reviewing the extension requests as part of the CTC process and the pros and cons of making this change in the review method. The Committee wanted to make sure that the right person sees the extension request to make recommendations as a user. The process for negotiating the deadline should involve facility services and the department.

  **Motion:** A member moved to try the new reviewed method until January 1, 2015. The motion was seconded.

  **Discussion:** The Committee continued to discuss the review process. One of the members expressed concerns about losing the ability for better understanding of the request through open discussion during a meeting. The Committee had a number of concerns and questions regarding the process and it was suggested that a written proposal be brought back to the Committee at the next meeting. The Committee wanted to have all the extension requests in one document instead of listed individually. The Committee decided to move forward with voting on the proposed change.

  **Vote on the Motion:** The motion passed with 11 members voting in favor, 4 members opposed and 2 members abstaining.

**Pets – General Discussion:**
The UW Policy that indicates no pets does not include fish. The Attending Veterinarian commented that she would encourage people who kept pet fish to make arrangements for proper care.

**Policies and SOP's**

**Use of Antibiotics in Laboratory Animals**
The policy, which combines three current policies into one, was summarized for the Committee.

  **Motion:** A motion to approve the policy was made and seconded.

  **Discussion:** The Committee discussed how this would be applied to certain protocols. The Committee also discussed the practical application of the policy. Members of the Committee suggested changes and the author agreed to incorporate them into the policy.

  **Vote on the Motion:** The Policy was approved with 16 members voting in favor and one abstention.

**Closing Business:**
The meeting was brought to a close at 4:01 pm. The floor was opened to public comment.