

University of Washington  
August 18, 2016 IACUC Meeting Minutes

Members Present:	AB	JM	ML
	AS	JPVH	NK
	CH	JS	SL
	CJ	JPI	TB
	JB	MG	

Members Absent:	CG	MT	PB
	CG	KL	SH

**Opening Business:**

The IACUC Chair called the meeting to order at 2:32pm.

**Approval of the IACUC Meeting Minutes**

The IACUC Chair called for the approval of the July 21, 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 9 members voting in favor and 3 abstentions. CJ and NK were not present for the vote.

**The Benefits of Research – JS**

This month's Benefit Story, on the development of a new treatment for Type 2 Diabetes, comes from Michael Schwartz's lab. Type 2 diabetes is the most common form of diabetes and is a major, and growing, cause of serious health problems around the world. In a study published recently in Nature Medicine [Scarlett et al., 'Central injection of fibroblast growth factor 1 induces sustained remission of diabetic hyperglycemia in rodents' Nature Medicine 22: 800-806 (2016)], the Schwartz group shows that a single injection of the naturally occurring protein Fibroblast Growth Factor 1 into the brain leads to sustained remission of diabetic symptoms in both rat and mouse models of Type 2 Diabetes. Curiously, the anti-diabetic effect is 'not secondary to weight loss, does not increase the risk of hypoglycemia, and involves a novel...mechanism for increasing glucose clearance from the blood stream.' The Schwartz group concludes 'that the brain has an inherent potential to induce diabetes remission and that brain [Fibroblast Growth Factor] receptors are potential pharmacological targets for achieving this goal.' We will continue to watch for exciting developments in the treatment of diabetes from the Schwartz group.

**Attending Veterinarian's Report**

**Facility issues:**

- **Humidity:** No recent reports of low humidity
- **Temperature and lights:** None

University of Washington  
August 18, 2016 IACUC Meeting Minutes

**Protocol Monitoring:** There are 15 active protocols on the veterinary monitoring program. Nine involve surgery, anesthesia and surgery, or restraint and surgery. Five involve other procedures including one that involves tumor monitoring.

TB updated the Committee on the protocol monitoring of the individual that was re-instated at the April 2016 IACUC meeting. This person has been performing procedures for about a month and currently the veterinarian has been present for any activity involving animals both by her and by others in the laboratory. We will be gradually allowing her more autonomy, first within the animal facility and eventually within the laboratory. So far, our interactions have been productive and the veterinarian doing the monitoring has expressed no concerns.

**Adverse events:**

On Sunday July 24, 2016 a cage was reported to veterinary services for not having a lixit valve. This cage was on a rack with auto-water, but the mice were unable to access water due to the lack of the valve in that particular cage. The group had already provided water and moist chow. One mouse was found dead in the cage and the other four mice were hunched, but normally hydrated and active, and did not require further treatment. The facility staff has recently reviewed the working guideline on what to do if there is a cage found without a water valve at a recent staff meeting and sent the email to the research staff about toggling the water valve. In addition, the supervisors are performing an additional re-training of their animal techs - at their facility meetings. This will include re-training with the cages side by side – one with and one without a water valve, asking them before they start if anyone can identify what is different between the two cages. They will also post the picture from the orientation guide that shows the two types of cages and place them in the washrooms and the resource stations. Lastly, the water bottle facilities will repaint cages as needed to spruce up any faded dots. The dots are present on cages that do not have lixit valves, as another reminder to staff that these cages require the use of water bottles. This event will be reported to OLAW.

**Harm Benefit Analysis Subcommittee:**

The HBA subcommittee met this month and discussed the potential clinical consequences of intestinal resections in non-human primates and discussed the proposed IACUC policy regarding this. The subcommittee also discussed clinical cases, research complications, and protocol monitoring. Tb reminded the IACUC that any interested IACUC member is always welcome to join this subcommittee.

**OAW Director's Report – STI (summary in meeting folder)**

STI informed the committee that the current CTC did not have many items so standard procedures and substances would be but on the agenda.

Response to noncompliance – The PI replied as required and STI read the PI's response to the Committee. The Committee did not have any questions regarding the response.

**Protocol Review**

**Dr. Kojima 4310-01, V14 "A Neuronal Process of the Error Signal That Drives Saccade Adaptation"**

Jl presented the Significant Change to the Committee.

This is a request for a repair surgery for a non-human primate on a neuroscience study. Per IACUC policy, decisions regarding requests for repair surgeries must be made at convened meetings of the IACUC, relevant protocols can and should include provision for one or two repair surgeries, and these requests

University of Washington  
August 18, 2016 IACUC Meeting Minutes

must include justification of the need for that specific animal to continue in the study, as well as complete medical history.

Background: This group studies the role of different brain areas in the adaptation of eye movements by recording and stimulating the activity of neurons or by activating and inactivating areas of the brain. This project is intended to help neurologists diagnose which part of the brain is damaged based on a patient's eye movement deficits, as well as explore learning, memory, and decision-making processes.

Version 14 requests 1 repair surgery for A13004, a 6 year old male rhesus macaque, in the event that his eye coil, head stabilization hardware, or recording chamber require repair. The group reports that the animal had a left eye coil and head stabilization hardware implanted in November 2013. Conjunctival hyperplasia was noted in his left eye in December 2015. This excess conjunctival tissue was surgically removed in January of this year, but subsequently recurred. On July 21<sup>st</sup> surgery was performed to remove the eye coil from his left eye and implant an eye coil in his right eye. The group reports that this animal is well-trained in a behavioral task and has been producing valuable data.

Surgical history:

- Unremarkable – one repair surgery, as just described

Clinical history:

- Consistent with the group's write-up
- Persistent left eyelid edema since November 2015, one clinical surgery to remove hyperplastic tissue in January, and a draining tract that developed and was treated in June but recurred in July, which appears to have prompted the removal of the eye coil
- Seizure activity in November 2014 and April 2016 that responded to treatment with no subsequent deficits

Current implants:

- Head stabilization lugs
- Recording Chamber
- Right eye coil

Behavior:

This animal is currently being monitored by WaNPRC Behavior Management Services (BMS) for locomotor stereotypy. Locomotor Stereotypy is defined as stereotypic (repetitive) locomotion, e.g., pacing, flipping, twirling, bouncing, or rocking. This animal also has some alopecia. BMS has recommended standard environmental enrichment (EE) 7 days a week, as well as extra EE an additional 3 times per week for this animal. This animal is currently in a stable social environment via full-contact pair housing.

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

Discussion: None

Vote on the Motion: The Significant Change was approved unanimously with 14 members voting in favor.

**Policy Review**

Laparotomy, survival surgery, in non-human primates - TB

University of Washington  
August 18, 2016 IACUC Meeting Minutes

TB summarized the policy. The Committee was asked to review the policy and it would be put to a vote at the September meeting. The draft policy would be sent to researchers that are impacted by the policy for comment and the scoring system would be used in the next month to make sure it works as intended.

Discussion: NK asked for clarification as to whether or not euthanasia was required if it was determined that an animal could not have any further surgeries. It was clarified that it was not. The Committee discussed the proposed scoring system and also had some suggestions for clarification of the policy that TB would try to incorporate.

**HoverBoard** – GL updated the Committee on the status of the bulk migration of protocols. The PowerPoint presentation is in the IACUC meeting folder. GL also went over the types of notifications that reviewers would receive when assigned as primary reviewer and the process for completing the task. JS asked if there is a mechanism for primary reviewers to notify OAW that they are done with their review if they don't have questions. GL instructed the IACUC to leave a private comment indicating 'no questions' or some other indication that they are done with their review and explained that if there are no questions, OAW will assume that the review didn't happen.

STI reminded the IACUC that the HoverBoard team appreciates feedback and asked for members to keep the comments and suggestions coming. The Committee continued to discuss the online process. STI stressed that if members were having trouble they should call OAW for help with the process. It was noted that the original deadline for completion of the bulk migration had not changed and was still set for October 9, 2016.

Deficiencies at a Glance (DAAG) – The Committee was reminded that the summary of site visit deficiencies were in the meeting folder and that they should be looking at them each month. No questions about any so far. One IACUC member suggested adding species information to the DAAG. It was determined that this may be a possibility with the HoverBoard system.

**Closing Business:**

The Meeting was brought to a close at 3:25 pm. The floor was opened to public comment.