



NIA/IRP – ACUC Minutes
Monday, March 09, 2020
1:03 PM – 1:49 PM, Room 04C211



Members Present: Jeff Long, Bernadette Zamora, [Redacted by agreement]
[Redacted by agreement] (via Webex), [Redacted by agreement] (via Webex)

Members Absent: [Redacted by agreement]

Observers Present: [Redacted by agreement] (via Webex), [Redacted by agreement] (via Webex)

The Chair, Dr. Jeff Long, called the meeting to order at 1:03 pm.

Pursuant to the ARAC *Guideline for Review, Approval, & Post Approval Monitoring of Animal Study Proposals Including Designated Member Review*, the use of Designated Member Review (DMR) alone, or DMR following Full Committee Review (FCR) has been approved by the committee. The quorum of members present at a convened meeting may decide by unanimous vote to use DMR subsequent to FCR when modifications are needed to secure approval. However, any member of the committee may request to see the revised protocol and/or request FCR of the protocol at any time.

For those Animal Study Proposals (ASPs) requiring modifications subsequent to FCR, the standing Designated Reviewers remain the original reviewers, the Attending Veterinarian, and the committee Chair.

The Delegated Reviewers for Appendix, Policy, and Standard Operating Procedure (SOP) review remain the Attending Veterinarian and the ACUC Chair.

New Business:

- Approve February Minutes – The Chair referred the committee to the minutes from the February meeting. The minutes were unanimously approved as written.
- Incident Reports -

Noncompliance:

On February 25, 2020, NIA animal care staff discovered 4 mice dead in their home cage. An investigation uncovered that the mice were euthanized via isoflurane, but the investigator failed to use a secondary method to ensure death and returned the cage to the rack. The NIA protocol for using isoflurane for euthanasia requires the use of a secondary, physical method of euthanasia to ensure death. The ACUC Chair was notified, at which point a subcommittee, composed of the ACUC Chair, the Regulatory Veterinarian, and the ACUC Program Coordinator, was appointed to investigate the incident. The Principal Investigator (PI) was also notified. After discussion, the ACUC concluded that this was a reportable incident of noncompliance. The following conditions were imposed:

- The animal facility access of the involved individual was suspended for a period of 3 weeks.
- The involved lab must complete training on proper euthanasia.

- The involved lab must complete training on use of Isoflurane vaporizer for survival procedures.
- The involved lab must submit an updated “Training and Experience” form to the ACUC.

The committee feels that these actions will prevent the recurrence of a similar incident in the future.

- The Chair motioned to have NIA ACUC Appendix: 362 – Use of Isoflurane for Euthanasia: the “Open-Drop” Method added to the April ACUC Agenda. The motion was unanimously approved.
- The Chair requested that the committee email any proposed changes to the IASP website that would be beneficial to all users to Acting Program Coordinator. The proposals will be forwarded to the Microsoft SharePoint Architect to address.

Protocol Business:

1. Initial Submissions

- NONE

2. DeNovo Renewals

- [Reviewers: Redacted by agreement] (PI: Redacted by agreement) “Structure and Organization of Memory in the Nonhuman Primate Brain” (*cc correspondence to* Redacted by agreement) Section K: Please remove extra verbiage after agents. **Disposition: Approved with Minor Administrative Changes**

- (b)(5)

Disposition: Tabled for DMR

3. Major Amendments

- (b)(5)

Disposition: Tabled for DMR

- (b)(5)

(b)(5)

Disposition: Tabled for DMR

- [Reviewers: Redacted by agreement] (PI: Redacted by agreement) “Diabetic cardiomyopathy and non-coding RNAs” Amendment #2 – request to add personnel and experimental procedures. (cc to correspondence Redacted by agreement)
Disposition: Approved

4. Annual Reviews

- (PI: Redacted by agreement) “Cardiotonic steroids in Dahl salt-sensitive rat model of an expedited aging and cardiovascular diseases”
Disposition: Approved
- (PI: Redacted by agreement) “Training for Investigators and Staff on Basic Animal Handling and ACUC Approved Procedures”
Disposition: Approved
- (PI: Redacted by agreement) “Evaluating the mechanisms of skeletal muscle regenerative capacity in mice utilizing an experimental immobilization protocol”
Disposition: Approved
- (PI: Redacted by agreement) “Study of Longitudinal Aging in Mice (SLAM)”
Disposition: Approved
- (PI: Redacted by agreement) “Investigation of the role of DNA damage in aging and the impact of dietary and pharmacological interventions to prevent aging and premature aging”
Disposition: Approved
- (PI: Redacted by agreement) “Epigenetic mechanisms of mammalian tissue aging”
Disposition: Approved

5. Notifications

- (PI: Redacted by agreement) “Age and vaccine responses to clinically relevant disease” Amendment #7 – request to add personnel.
Disposition: Approved (Administrative)
- (PI: Redacted by agreement) “Using mouse models to investigate the role of topoisomerase 3b-TDRD3 complex in Fragile X Syndrome and aging” Amendment #4 – request to add personnel.
Disposition: Approved (Administrative)

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- (PI: [Redacted by agreement]) “Generation and characterization of genetically modified mouse models for Neurodegenerative diseases” Amendment #21 – request to add Trypan blue dye for testing new stereotaxic coordinates.
Disposition: Approved (Administrative, VVC)
 - (PI: [Redacted by agreement]) “Development and characterization of mouse behavioral tests” Amendment #16 – request to add behavior testing for mice in DVC home cage activity experiment.
Disposition: Approved (Administrative, VVC)
 - (PI: [Redacted by agreement]) “Pharmacological strategies for the treatment of mild to moderate brain injury disease pathology” Amendment #3 – request to add pain relief by use of Buprenorphine SR-Lab and use of a topical antibiotic at the site of incision.
Disposition: Approved (Administrative, VVC)

The meeting was adjourned at 1:49 pm.

Respectfully submitted,

Approved,

[Redacted by agreement]

Jeff Long, Ph.D.
Chair, NIA ACUC
13 April 2020

13 April 2020

Members Present: Jeff Long, Bernadette Zamora, [Redacted by agreement]

[Redacted by agreement]

Members Absent: [Redacted by agreement]

Observers Present: [Redacted by agreement]

The Chair, Dr. Jeff Long, called the meeting to order at 1:03 pm.

Pursuant to the ARAC *Guideline for Review, Approval, & Post Approval Monitoring of Animal Study Proposals Including Designated Member Review*, the use of Designated Member Review (DMR) alone, or DMR following Full Committee Review (FCR) has been approved by the committee. The quorum of members present at a convened meeting may decide by unanimous vote to use DMR subsequent to FCR when modifications are needed to secure approval. However, any member of the committee may request to see the revised protocol and/or request FCR of the protocol at any time.

For those Animal Study Proposals (ASPs) requiring modifications subsequent to FCR, the standing Designated Reviewers remain the original reviewers, the Attending Veterinarian, and the committee Chair.

The Delegated Reviewers for Appendix, Policy, and Standard Operating Procedure (SOP) review remain the Attending Veterinarian and the ACUC Chair.

New Business:

- Approve March Minutes – The Chair referred the committee to the minutes from the March meeting. The minutes were unanimously approved as written.
- Incident Reports – The acting ACUC Coordinator referred the committee to the OLAW acceptance letter received on March 24, 2020 closing out the incident from the previous meeting.
- USDA Pain & Distress Categories – The Chair brought up the document “Guidelines for Preparing USDA Annual Reports and Assigning USDA Pain & Distress Categories” and referred the committee to Example C6 regarding exsanguination while animals are under deep anesthesia being classified as Column C. The committee unanimously agreed.
- Review of Spring Semiannual Facility Inspection Findings [Redacted by] – The spring semiannual facility inspections were conducted as follows:
 - [Redacted by] Animal Facility: 03/28/2020 (after the committee unanimously agreed to use qualified ad hocs to perform the inspection)
 - [Redacted by]: 03/16/2020
 - [Redacted by] (Waiver)
- Semiannual Program Review [Redacted by agreement] – The committee conducted a program review using the NIH OACU “Semiannual Self-Assessment Summary” checklist. All program areas

were found to be acceptable. It was noted, and approved by the committee, that the following species are currently housed in the same holding room: guinea pigs and rats (1 room), mice and rats (1 room). The animals are housed such that there is no visible contact between species and the cage changes are scheduled on different days. It was also noted that the NIA/CMS Disaster Plan was undergoing annual review.

- ACUC Appendix Review [Zamora/Long]
 - NIA ACUC Appendix: 362 - Use of Isoflurane for Euthanasia: the “Open-Drop” Method
Disposition: Approved

Protocol Business:

1. Initial Submissions

- NONE

2. DeNovo Renewals

- (b)(5)

Disposition: Tabled for DMR

- [Reviewers: Redacted by agreement] (PI: Redacted by agreement) “Development and refinement of mouse behavioral tests”
Disposition: Approved
- [Reviewers: Redacted by agreement] (PI: Redacted by agreement) “Biosynthesis of cardiotonic steroids in rodents”
Disposition: Approved

3. Major Amendments

- [Reviewers: Redacted by agreement] (PI: Redacted by agreement) “Investigating the Comparative Physiological and Metabolic Effects of Genetic Interventions in Aging using Dietary Manipulations” Amendment #9 – addition of experimental procedure. (cc correspondence to Redacted by agreement)
Disposition: Approved (Redacted by agreement) **recused from voting)**
- Reviewers: Redacted by agreement (PI: Redacted by agreement) “Aging Interventions in Rhesus Monkeys” Amendment #21 – addition of experimental procedure and personnel. (cc correspondence to Redacted by agreement)
Disposition: Approved

- Reviewers: [Redacted by agreement] (PI: [Redacted by agreement]) “LCS mouse breeding and calcium homeostasis by rodents, guinea pig and rabbit ASP” Amendment #14 – addition of experimental procedure. (cc correspondence to [Redacted by agreement]). Section F: Remove verbiage about sending cages to cagewash. They are only cleaned by hand.

Disposition: Approved with Minor Administrative Changes

- Reviewers: [Redacted by agreement] (PI: [Redacted by agreement]) “Cell Culture Models for Neurodegenerative Diseases” Amendment #10 – addition of experimental drug.

Disposition: Approved

- (b)(5)

Disposition: Tabled for DMR

- (b)(5)

Disposition: Tabled for DMR

- (b)(5)

Disposition: Tabled for DMR

- (b)(5)

Disposition: Tabled for DMR

4. Annual Reviews

- (PI: [Redacted by agreement]) “Pre-clinical pharmacology of anti-inflammatory agents and neurotrophic/neuroprotective agents in rodents”

Disposition: Approved

- (PI: [Redacted by agreement]) “The study of the immune system from development to aging and neurological diseases”
Disposition: Approved
- (PI: [Redacted by agreement]) “Effects of Aging on the Proliferative Capacity of Arterial Mural Cells in Rats”
Disposition: Approved
- (PI: [Redacted by agreement]) “Magnetic Resonance Imaging (MRI) Studies for External Collaboration”
Disposition: Approved
- (PI: [Redacted by agreement]) “Insulin Signaling in Brain Physiology and Pathology”
Disposition: Approved

5. Notifications

- (PI: [Redacted by agreement]) “DNA repair deficient mice in aging and neuronal degeneration.” Amendment #37 – request to add personnel.
Disposition: Approved (Administrative)
- (PI: [Redacted by agreement]) “Neurobiological Markers of Cognitive Aging” Amendment #2 – request to add an approved procedure.
Disposition: Approved (Administrative, VVC)
- (PI: [Redacted by agreement]) “Mouse breeding protocol” Amendment #11 – request to add strains with no adverse phenotypes.
Disposition: Approved (Administrative, VVC)
- (PI: [Redacted by agreement]) “LCS mouse breeding and calcium homeostasis by rodents, guinea pigs and rabbit ASP” Amendment #15 – request to add personnel.
Disposition: Approved (Administrative)
- (PI: [Redacted by agreement]) “Diabetic cardiomyopathy and non-coding RNAs” Amendment #2 – request to add personnel and ACUC approved procedure.
Disposition: Approved (Administrative, VVC)

The meeting was adjourned at 3:01 pm.

Respectfully submitted,

Approved,

[Redacted by agreement]

15 June 2020

Jeff Long, Ph.D.
Chair, NIA ACUC
15 June 2020

Members Present:	Jeff Long, [Redacted by agreement]	Bernadette Zamora, [Redacted by agreement]
	[Redacted by agreement]	
	[Redacted by agreement]	
Members Absent:	[Redacted by agreement]	
Observers Present:	[Redacted by agreement]	

The Chair, Dr. Jeff Long, called the meeting to order at 1:05 PM.

Pursuant to the ARAC *Guideline for Review, Approval, & Post Approval Monitoring of Animal Study Proposals Including Designated Member Review*, the use of Designated Member Review (DMR) alone, or DMR following Full Committee Review (FCR) has been approved by the committee. The quorum of members present at a convened meeting may decide by unanimous vote to use DMR subsequent to FCR when modifications are needed to secure approval. However, any member of the committee may request to see the revised protocol and/or request FCR of the protocol at any time.

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The Delegated Reviewers for Appendix, Policy, and Standard Operating Procedure (SOP) review remain the Attending Veterinarian and the ACUC Chair.

New Business:

- Approve April Minutes – The Chair referred the committee to the minutes from the April meeting. The minutes were unanimously approved as written.
- Incident Reports – Saturday afternoon (5/16/2020) the following mouse/rat rooms had temperatures above the Guide recommended range of 68-79°F for rodents: [Redacted by agreement] (81°F), [Redacted by agreement] (80°F), [Redacted by agreement] (79.6°F). The rabbit [Redacted by agreement] had a temperature of 74.7 °F and 76.7 °F at 4:25 and 5:20 PM (Guide recommended temperature range for rabbits is 61-72 °F). The problem was immediately detected by the CMS and [Redacted by agreement] facility staff and the issue was resolved that same afternoon by opening the doors, using fans or repositioning the chiller where applicable. There were no animal-related health or welfare issues.

After discussion, the committee decided that the Lab Chief of the affected rooms should be notified when temperatures are found to be out of range and that this incident did not meet the threshold for reporting to OLAW.

- Special Discussion Topics
 - Training and Experience Form – Should periodic updates be required? How often? – The committee discussed the NIA Training & Experience form and unanimously agreed that they should be checked during the 3-year renewal. If they are older than 3 years, the

Investigator will be notified and asked to submit an updated form. Other ideas are currently being explored for potential changes in the future.

- Cervical Dislocation without Anesthesia – Should the ACUC be tracking/confirming technical proficiency? How? – The committee discussed tracking/confirming technical proficiency in physical methods of euthanasia and decided that a CMS Veterinarian will need to evaluate the proficiency for all lab staff planning to do cervical dislocation (with and without anesthesia), decapitation using a guillotine, and CMS surgery training.
- Accounting for Rodent Pups – Implementing update to CMS SOP3290 “Breeding Rodents” to count the number of pups at Day 6 and deducting from the total number of approved animals in the ASP. – The committee discussed the upcoming implementation of counting pups at Day 6 (or first manipulation) against the total approved animal numbers for each ASP. The NIA “Breeding Rodents” SOP will be updated, and the CMS will be coming up with a plan to implement this soon. The committee was encouraged to send any ideas for smooth implementation to the ACUC Coordinator.

○ ACUC Appendix Review [Zamora/Long]

- (b)(5)

Disposition: Tabled for DMR

- (b)(5)

Disposition: Tabled for DMR

- (b)(5)

Disposition: Tabled for DMR

- (b)(5)

Disposition: Tabled for DMR

- NIA Emergency Operation Procedures [Zamora/Long]
 - EOP 100 – Coordinated Response to a Pandemic
Remove wording “public health crisis like the COVID-19”.
Disposition: Approved with Minor Administrative Changes
 - EOP 200 – Staff Workload Adjustment Plan Due to Staffing Reductions
Disposition: Approved
 - EOP 201 – Rodent Colony Breeding Management Instructions during a Staffing Shortage
Remove the sentence “Male mice required to rescue a line may be kept until 52-weeks of age as viable sperm recovery of the line might be possible” as no company will accept mice at that age.
Disposition: Approved with Minor Administrative Changes
 - EOP 300 – Recommended Disinfection and Vivarium Work Schedule During a Public Health Crisis like COVID-19
Disposition: Approved
 - EOP 301 – Facility Cleaning, Disinfection and Re-Opening after Exposure to COVID-19 Virus
Disposition: Approved
 - EOP 302 – Safe Re-Opening of [Redacted] Animal Research Facility after Prolonged Lockdown Due to a Highly Infectious Disease Agent
Remove the word “infectious” and replace with “contagious”.
Disposition: Approved with Minor Administrative Changes

Protocol Business:

1. Initial Submissions

- NONE

2. DeNovo Renewals

- NONE

3. Major Amendments

- NONE

4. Annual Reviews

- (PI: [Redacted by agreement]) “Age and Vaccine Responses to Clinically Relevant Disease”
- (PI: [Redacted by agreement]) “Cancer Escape and Immunotherapy”

- (PI: [Redacted by agreement]) “Nonhuman Primate Holding”
- (PI: [Redacted by agreement]) “Pre-clinical pharmacological agents in a model of mild traumatic brain injury (mTBI): effects of age and a repeated mTBI”
- (PI: [Redacted by agreement]) “Heart and Conduction System Aging”
- (PI: [Redacted by agreement]) “Impact of IL33 treatment on frailty in aging mice”
- (PI: [Redacted by agreement]) “Mitochondria and Neurological Diseases”

5. Notifications

- (PI: [Redacted by agreement]) “Rodent Health Surveillance Program (Sentinel Monitoring)” Amendment#2 – Change in Principal Investigator.
Disposition: Approved (DMR)
- (PI: [Redacted by agreement]) “Training for Investigators and Staff on Basic Animal Handling and ACUC Approved Procedures” Amendment#4 – Change in Principal Investigator.
Disposition: Approved (DMR)
- (PI: [Redacted by agreement]) “Antibody Diversity in Mice Deficient for DNA Repair Enzymes” Amendment #5 – Request to add COVID-related experiment.
Disposition: Approved (DMR)
- (PI: [Redacted by agreement]) “Role of marinobufagenin in salt sensitive hypertension, vascular dementia and aging in rodents” Amendment #21 – Request to keep retired breeders for age-related study.
Disposition: Approved (Administrative, VVC)
- (PI: [Redacted by agreement]) “Role of marinobufagenin in salt sensitive hypertension, vascular dementia and aging in rodents” Amendment #22 – Addition of new mouse strain.
Disposition: Approved (Administrative, VVC)
- (PI: [Redacted by agreement]) “Breeding Protocol for Immune Deficient Mice” Amendment #3 – Request to keep retired breeders for age-related study.
Disposition: Approved (Administrative, VVC)
- (PI: [Redacted by agreement]) “Age and Vaccine Responses to Clinically Relevant Disease” Amendment #9 – Request to keep retired breeders for age-related study.
Disposition: Approved (Administrative, VVC)
- (PI: [Redacted by agreement]) “The study of the immune system from development to aging and neurological diseases” Amendment #11, #13, #16, #17 – Request to change strain name suffixes to accommodate updates on genotypic and/or phenotypic testing results.
Disposition: Approved (Administrative, VVC)

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- (PI: [Redacted by agreement]) “Holding and Colony Maintenance of NIA Owned Mice, Rats, and Rabbits” Amendment#4 – Change in Principal Investigator.
Disposition: Approved (DMR)
 - (PI: [Redacted by agreement]) “Holding and Colony Maintenance of NIA Owned Mice, Rats, and Rabbits” Amendment#5 – Removal of holding location.
Disposition: Approved (Administrative)
 - (PI: [Redacted by agreement]) “Aging Interventions in Rhesus Monkeys” Amendment #22 – Request to add COVID-related experiment.
Disposition: Approved (DMR)
 - (PI: [Redacted by agreement]) “Biosynthesis of cardiotonic steroids in rodents” Amendment #11 – Request to keep retired breeders for age-related study.
Disposition: Approved (Administrative, VVC)
 - (PI: [Redacted by agreement]) “Socially housing mature rats – Compatibility and impact on anxiety” Amendment#4 – Change in Principal Investigator.
Disposition: Approved (DMR)

The meeting was adjourned at 2:09 PM.

Respectfully submitted,

Approved,

[Redacted by agreement]

13 July 2020

Jeff Long, Ph.D.
Chair, NIA ACUC
13 July 2020



NIA/IRP – ACUC Minutes
Monday, July 13, 2020
1:06 PM – 1:37 PM, Conducted in WebEx

Members Present:	Jeff Long,	Redacted by agreement	Bernadette Zamora	Redacted by agreement
	Redacted by agreement			
	Redacted by agreement			
Members Absent:	Redacted by agreement			
Observers Present:	Redacted by agreement			

The Chair, Dr. Jeff Long, called the meeting to order at 1:06 PM.

Pursuant to the ARAC *Guideline for Review, Approval, & Post Approval Monitoring of Animal Study Proposals Including Designated Member Review*, the use of Designated Member Review (DMR) alone, or DMR following Full Committee Review (FCR) has been approved by the committee. The quorum of members present at a convened meeting may decide by unanimous vote to use DMR subsequent to FCR when modifications are needed to secure approval. However, any member of the committee may request to see the revised protocol and/or request FCR of the protocol at any time.

For those Animal Study Proposals (ASPs) requiring modifications subsequent to FCR, the standing Designated Reviewers remain the original reviewers, the Attending Veterinarian, and the committee Chair.

The Delegated Reviewers for Appendix, Policy, and Standard Operating Procedure (SOP) review remain the Attending Veterinarian and the ACUC Chair.

New Business:

- Approve June Minutes – The Chair referred the committee to the minutes from the June meeting. The minutes were unanimously approved as written.
- Incident Reports – No new incidents reported.
- NIA Standard Operating Procedure Review [Redacted by agreement]/[Long] – The Chair informed the committee that these are independent non-human primate SOPs for the LBN and OSD labs, [Redacted by agreement] and [Redacted by agreement] respectively. The modifications that were needed have been made and they are going to be accessible by all of the reviewers after being posted to the NIA ACUC website <https://niairpkiosk.irp.nia.nih.gov/acuc>.

- NIA NHP SOPs – [Redacted by agreement]
- NIA NHP SOPs – [Redacted by agreement]

Disposition: Approved

- Special Discussion Topics
 - Cervical Dislocation without Anesthesia – Should the ACUC be tracking/confirming technical proficiency? How? – The Chair updated the committee on this topic from the June meeting, as we do want to track technical proficiency on these procedures. The ACUC Coordinator is working with the IASP Programmer to update the training section of

the website so that we can check a box or add a date when an individual has been trained by a CMS Veterinarian. After this is added, the record is attached to their profile in the system. Since this is a new requirement, no one is currently out of compliance. [Redacted by [Redacted]] suggested that they may go lab by lab as they do with surgical training, but this will not occur during Phase A or Phase B of the labs returning to the [Redacted by [Redacted]] Dr. Bernadette Zamora suggested that it may be a good idea to schedule the training when we are reviewing an ASP and see that the lab will be doing cervical dislocation without anesthesia or using a guillotine.

- Training and Experience Form – Should periodic updates be required? How often? – The Chair provided an update on this topic from the June meeting. A longer term and more ambitious goal is to integrate the entire Training and Experience Form into the training section of the IASP website. This means that all skills of each user will be attached to their profile and can be updated as needed eliminating the need to upload a PDF copy of the form. The ACUC Coordinator will be working with the programmer on this but it is not expected to be completed anytime soon.

Protocol Business:

1. Initial Submissions

- [Reviewers: [Redacted by agreement]] (PI: [Redacted by agreement]) “Longitudinal study of the effect of ketogenic diet on the central nervous system and gut microbiome in aging rodents” (cc correspondence to [Redacted by agreement]) Section F: Add verbiage that individuals performing the tail vein blood withdrawal will reach out to CMS for training if needed.

Disposition: Approved with Minor Administrative Changes

- (b)(5)

Disposition: Tabled for FCR

2. DeNovo Renewals

- NONE

3. Major Amendments

- [Reviewers: [Redacted by agreement]] (PI: [Redacted by agreement]) “Pre-clinical pharmacology of anti-inflammatory agents and neurotrophic/neuroprotective agents in rodents” Amendment #13 – addition of strains for experimental procedure.

(cc correspondence to [Redacted by agreement])

Disposition: Approved

- [Reviewers: Redacted by agreement] (PI: Redacted by agreement) “Pre-clinical pharmacological agents in a model of mild traumatic brain injury (mTBI): effects of age and a repeated mTBI” Amendment #5 – addition of strains for experimental procedure.
(cc correspondence to Redacted by agreement)
Disposition: Approved
- [Reviewers: Redacted by agreement] (PI: Redacted by agreement) “Aging Interventions in Rhesus Monkeys” Amendment #23 – modification of experimental procedures. (cc correspondence to Redacted by agreement)
Disposition: Approved (Mattison recused from voting)

4. Annual Reviews

- (PI: Redacted by agreement) “Rodent Health Surveillance Program (Sentinel Monitoring)”
Disposition: Approved
- (PI: Redacted by agreement) “Socially housing mature rats – Compatibility and impact on anxiety”
Disposition: Approved

5. Notifications

- NONE

The meeting was adjourned at 1:37 PM.

Respectfully submitted,

Approved,

Redacted by agreement

Jeff Long, Ph.D.
Chair, NIA ACUC
13 July 2020

13 July 2020



NIA/IRP – ACUC Minutes
Monday, August 10, 2020
1:03 PM – 1:45 PM, Conducted in WebEx



Members Present: Jeff Long, Bernadette Zamora,	Redacted by agreement
Redacted by agreement	
Redacted by agreement	
Members Absent:	Redacted by agreement
Observers Present:	Redacted by agreement
Redacted by agreement	

The Chair, Dr. Jeff Long, called the meeting to order at 1:03 PM.

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The Delegated Reviewers for Appendix, Policy, and Standard Operating Procedure (SOP) review remain the Attending Veterinarian and the ACUC Chair.

New Business:

- Approve July Minutes – The Chair referred the committee to the minutes from the July meeting. The minutes were unanimously approved as written.
- Incident Reports – On the evening of July 30, 2020 the [Redacted] experienced a power outage. Most of the animal rooms in the vivarium rose above the alarm set point for out of range temperatures. The problem was immediately detected by the CMS and a staff member placed spot coolers in the rooms and continued to monitor temperatures throughout the outage. Power was restored to the [Redacted] a little after 1AM, and the rooms were monitored until they fell back into the normal operating range. There were no animal-related health or welfare issues.

After discussion, the ACUC concluded that this was not an OLAW reportable incident.

Noncompliance:

On July 20, 2020 a request was submitted to the NIA Comparative Medicine Section that stated in part that an NIA investigator would administer a drug to mice that was later identified by NIA veterinarians as not being included on the relevant Animal Study Proposal (ASP). Although the experiment was stopped before the drug was delivered, a subsequent investigation revealed the investigator did previously administer a drug to mice that was not included on the relevant ASP. The mice did not experience negative health consequences from the drug administration.

The ACUC Chair was notified, at which point a subcommittee, composed of the ACUC Chair, the Regulatory Veterinarian, and the ACUC Program Coordinator, was appointed to investigate the incident. The Principal Investigator (PI) was also notified.

After discussion, the ACUC concluded that this was an OLAW reportable incident of noncompliance. The following conditions were imposed:

- The facility access of the involved individual was suspended for a period of 2-weeks.
- The involved lab must complete the OACU “Using Animals in NIH Intramural Research: REFRESHER” course.
- The involved lab must provide the NIA Veterinarian for Regulatory and Policy Compliance a description of measures in place that ensures the investigators maintain up-to-date knowledge of procedures and compounds approved for animal work conducted under their approved protocols.

The committee feels that these actions will prevent the recurrence of a similar incident in the future.

○ ACUC Appendix Review [Zamora/Long]

- NIA ACUC Appendix: 314 – Behavioral Assessments of Rodents
The ACUC Coordinator will make the following administrative modification: Remove the names of authors no longer at the NIA.
Disposition: Approval

Protocol Business:

1. Initial Submissions

- [Reviewers: Redacted by agreement] (PI: Redacted by agreement) “Role of CD8 T cell in Alzheimer’s disease” – The ACUC Coordinator will make the following administrative modification: Section M – Fix misspelling of procedure room.
Disposition: Approval

2. DeNovo Renewals

- NONE

3. Major Amendments

- (b)(5)

Disposition: Modifications Required to Secure Approval (FCR)

- [Reviewers: Long/[Redacted by agreement]] (PI: [Redacted by agreement]) "Rodent Health Surveillance Program (Sentinel Monitoring)" Amendment #3 – Change in Principal Investigator.
Disposition: Approval
- [Reviewers: Long/[Redacted by agreement]] (PI: [Redacted by agreement]) "Training for Investigators and Staff on Basic Animal Handling and ACUC Approved Procedures" Amendment #6 – Change in Principal Investigator.
Disposition: Approval
- [Reviewers: Long/[Redacted by agreement]] (PI: [Redacted by agreement]) "Holding and Colony Maintenance of NIA Owned Mice, Rats, and Rabbits" Amendment #6 – Change in Principal Investigator.
Disposition: Approval

4. Annual Reviews

- (PI: [Redacted by agreement]) "Investigating the Comparative Physiological and Metabolic Effects of Genetic Interventions in Aging using Dietary Manipulations"
Disposition: Approval
- (PI: [Redacted by agreement]) "Using mouse models to investigate of the role of topoisomerase 3b-TDRD3 complex in Fragile X Syndrome and aging"
Disposition: Approval

5. Notifications

- (PI: [Redacted by agreement]) "Pre-clinical pharmacology of anti-inflammatory agents and neurotrophic/neuroprotective agents in rodents." Amendment#13 – request to add mouse strains with no adverse phenotypes.
Disposition: Approval (Administrative)
- (PI: [Redacted by agreement]) "Regulation of Immunoglobulin Gene Expression in B Lymphocytes" Amendment #2 – request to add mouse strain with no adverse phenotypes.
Disposition: Approval (Administrative)
- (PI: [Redacted by agreement]) "Regulation of Immunoglobulin Gene Expression in B Lymphocytes" Amendment #3 – request to use aged and retired breeders in ongoing aging studies.
Disposition: Approval (VVC)
- (PI: [Redacted by agreement]) "DNA Repair Deficient Mice in Aging and Neurodegeneration" Amendment #1 – request to add new procedure.
Disposition: Approval (VVC)
- (PI: [Redacted by agreement]) "NF-kappB, inflammation and Aging" Amendment #7 – request to add personnel and use aged and retired breeders in ongoing aging studies.
Disposition: Approval (VVC)

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- (PI: [Redacted by agreement]) “Pre-clinical pharmacological agents in a model of mild traumatic brain injury (mTBI): effects of age and a repeated mTBI” Amendment #5 – request to add mouse strains with no adverse phenotypes.
Disposition: Approval (Administrative)
 - (PI: [Redacted by agreement]) “LCS mouse breeding and calcium homeostasis by rodents, guinea pigs and rabbit ASP” Amendment #16 – request to increase the maximum weight of rabbits to 5 Kg.
Disposition: Approval (VVC)
 - NIA ACUC Policy 001 “Reporting Animal Welfare Concerns”
Disposition: Approval (Administrative)

The meeting was adjourned at 1:45 PM.

Respectfully submitted,

[Redacted by agreement]

10 August 2020

Approved,

Jeff Long, Ph.D.
Chair, NIA ACUC
10 August 2020



NIA/IRP – ACUC Minutes
Monday, September 14, 2020
1:02 PM – 2:01 PM, Conducted in WebEx



National Institute
on Aging
Intramural Research Program

Members Present: Jeff Long,	Redacted by agreement	Bernadette Zamora,	Redacted by agreement
Redacted by agreement			
Redacted by agreement			
Members Absent:			
Observers Present: Redacted by agreement			

The Chair, Dr. Jeff Long, called the meeting to order at 1:02 PM.

Pursuant to the ARAC *Guideline for Review, Approval, & Post Approval Monitoring of Animal Study Proposals Including Designated Member Review*, the use of Designated Member Review (DMR) alone, or DMR following Full Committee Review (FCR) has been approved by the committee. The quorum of members present at a convened meeting may decide by unanimous vote to use DMR subsequent to FCR when modifications are needed to secure approval. However, any member of the committee may request to see the revised protocol and/or request FCR of the protocol at any time.

For those Animal Study Proposals (ASPs) requiring modifications subsequent to FCR, the standing Designated Reviewers remain the original reviewers, the Attending Veterinarian, and the committee Chair.

The Delegated Reviewers for Appendix, Policy, and Standard Operating Procedure (SOP) review remain the Attending Veterinarian and the ACUC Chair.

New Business:

- Approve August Minutes – The Chair referred the committee to the minutes from the August meeting. The minutes were unanimously approved as written
- Incident Reports – No new incidents reported.
- Special Discussion Topics
 - Accounting for rodent pups at day 6 and deducting from the total number of approved animals in the ASP – Redacted by agreement informed the committee that CMS is currently trying to transition to counting pups at six days and using those numbers against the protocols. CMS has developed a breeder tracking spreadsheet that will be used to track the pups, it will be sent to the appropriate individuals to track against each ASP.
 - Training & Experience Form on the IASP website – The ACUC Coordinator updated the committee on the status of integrating the form into the website to track everyone's training records. The programmer has been working on updating the profile page so that the coordinator can add detailed training information to an individual's profile so that it is visible to reviewers when checking the co-investigator page of a protocol. It was agreed upon that training dates will be checked for each co-investigator during the 3-year renewal process.

- Using HyChecks to validate the efficiency of sanitization of laboratory equipment – Dr. Bernadette Zamora informed the committee about how CMS is using HyChecks to test a sampling of equipment in the animal facility. The investigators are not involved in scheduling the testing, she will reach out to let investigators know she is doing the test.
 - Consistency of drug recommendations for pain management after surgery – The CMS veterinary staff will meet to discuss recommendations given to investigators when reviewing their protocols.
 - Fall Semiannual Inspection – The Chair reminded the committee that they should feel welcome to participate if they want/can participate. [Redacted by agreement] asked if any of the areas will be inspected virtually. The NIA will not be using this option.
- ACUC Policy Review [Zamora/Long]
- NIA ACUC Policy 012 – Animal Adoption/Retirement
 - Animal Adoption Agreement
 - Adoption Memo
- The ACUC Coordinator will make the following administrative modification: Make the eligible species information more general in both the policy and agreement.
- Disposition: Approval**

Protocol Business:

1. Initial Submissions

- NONE

2. DeNovo Renewals

- NONE

3. Major Amendments

- [Reviewers: [Redacted by agreement] (PI: [Redacted by agreement] “Mouse breeding, maintenance, tissue harvest, and health assessment” Amendment #7 – addition anesthesia method. (cc correspondence to [Redacted by agreement])
Disposition: Approval
- [Reviewers: [Redacted by agreement] (PI: [Redacted by agreement] “Neurobiological Markers of Cognitive Aging” Amendment #4 – addition of 2 experiments. (cc correspondence to Jeff Long)
Disposition: Approval (Long recused from voting)

- [Reviewers: Redacted by agreement] (PI: Redacted by agreement) “Neurobiological Markers of Cognitive Aging” Amendment #5 – addition of 2 drugs. (cc correspondence to Redacted by agreement)
Disposition: Approval (Long recused from voting)
- [Reviewers: Redacted by agreement] (PI: Redacted by agreement) “Aging Interventions in Rhesus Monkeys” Amendment #25 – addition of experimental procedures. (cc correspondence to Redacted by agreement)
Disposition: Approval Redacted by agreement recused from voting)
- [Reviewers: Redacted by agreement] (PI: Redacted by agreement) “Using mouse models to investigate of the role of topoisomerase 3b-TDRD3 complex in Fragile X Syndrome and aging” Amendment #5 – modifications of 2 protocols in existing ASP. (cc correspondence to Redacted by agreement)
The ACUC Coordinator will make the following administrative modification: Section K - add descriptions under the table.
Disposition: Approval
- [Reviewers: Redacted by agreement] (PI: Redacted by agreement) “LCS mouse breeding and calcium homeostasis by rodents, guinea pig and rabbit ASP” Amendment #17 – addition of new strains. (cc correspondence to Redacted by agreement)
Disposition: Approval

- (b)(5)

Disposition: Modifications Required to Secure Approval (DMR)

- [Reviewers: Redacted by agreement] (PI: Redacted by agreement) “Thermoregulation and heart rate variability in transgenic mouse models” Amendment #3 – addition of new drugs. (cc correspondence to Redacted by agreement)
Disposition: Approval

- (b)(5)

Disposition: Modifications Required to Secure Approval (DMR)

- (b)(5)

(b)(5)

Disposition: Modifications Required to Secure Approval (FCR)

4. Annual Reviews

- (PI: [Redacted by agreement]) “Assessment of Primate Aging: Effects of Caloric Modification”
Disposition: Approval
- (PI: [Redacted by agreement]) “NF-kappaB, Inflammation and Aging”
Disposition: Approval
- (PI: [Redacted by agreement]) “Assessing Metabolic Function Across Lifespan in Mice”
Disposition: Approval
- (PI: [Redacted by agreement]) “Characterization of hematopoietic stem cell (HSC) and progenitor cell aging, identification of candidate age-regulated genes as targets for therapeutic intervention”
The ACUC Coordinator will make the following administrative modification: Correct answer to question 2 in regards to HPRD.
Disposition: Approval
- (PI: [Redacted by agreement]) “Effect of voluntary exercise and aging on heart rhythms and health in rats”
Disposition: Approval
- (PI: [Redacted by agreement]) “Targeting the regulatory pathway of senescent glial cells alleviates AB-load in an Alzheimer’s disease mouse model”
Disposition: Approval

5. Notifications

- (PI: [Redacted by agreement]) “The role of exercise, dietary and pharmacological interventions on rodent models of neurodegenerative disorders”
Amendment#1 – request to add personnel.
Disposition: Approval (Administrative)

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- (PI: [Redacted by agreement]) “Cardiotonic steroids in Dahl salt-sensitive rat model of an expedited aging and cardiovascular diseases” Amendment #5 – request to add personnel.
Disposition: Approval (Administrative)
 - (PI: [Redacted by agreement]) “Investigating the Comparative Physiological and Metabolic Effects of Genetic Interventions in Aging using Dietary Manipulations” Amendment #10 – request to add personnel.
Disposition: Approval (Administrative)
 - (PI: [Redacted by agreement]) “Forestalling Neurodegenerative Disorders” Amendment #2 – request to add personnel.
Disposition: Approval (Administrative)
 - (PI: [Redacted by agreement]) “Role of marinobufagenin in salt sensitive hypertension, vascular dementia and aging in rodents” Amendment #24 – request to remove personnel.
Disposition: Approval (Administrative)
 - (PI: [Redacted by agreement]) “The study of the immune system from development to aging and neurological diseases” Amendment #21 – request to add personnel.
Disposition: Approval (Administrative)
 - (PI: [Redacted by agreement]) “LCS mouse breeding and calcium homeostasis by rodents, guinea pig and rabbit ASP” Amendment #18 – request to add/remove personnel.
Disposition: Approval (Administrative)
 - (PI: [Redacted by agreement]) “Study of Longitudinal Aging in Mice (SLAM)” Amendment #23 – request to add personnel.
Disposition: Approval (Administrative)
 - (PI: [Redacted by agreement]) “Generation and Characterization of Genetically Modified Mouse Models for Neurodegenerative Diseases” Amendment #22 – request to add/remove personnel.
Disposition: Approval (Administrative)
 - (PI: [Redacted by agreement]) “Generation and Characterization of Genetically Modified Mouse Models for Neurodegenerative Diseases” Amendment #23 – request to add personnel.
Disposition: Approval (Administrative)
 - (PI: [Redacted by agreement]) “Generation and Characterization of Genetically Modified Mouse Models for Neurodegenerative Diseases” Amendment #24 – request to add new strain.
Disposition: Approval (VVC)
 - (PI: [Redacted by agreement]) “Development and refinement of mouse behavior tests” Amendment #1 – request to add personnel and experimental procedures.
Disposition: Approval (VVC)

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- (PI: Redacted by agreement) “Mitochondria and Neurological Diseases”
Amendment#8 – request to add personnel and modify research objectives.
Disposition: Approval (VVC)

The meeting was adjourned at 2:01 PM.

Respectfully submitted,

Approved,

Redacted by agreement

14 September 2020

Jeff Long, Ph.D.
Chair, NIA ACUC
14 September 2020