

**University of Connecticut
INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE**

***Minutes of Protocol & Policy Review Meeting
August 19, 2020***

IACUC CHAIRPERSON: Randall Walikonis *Randall Walikonis*

MEMBERS PRESENT: [REDACTED]
(alternate for [REDACTED])

ALT. MEMBERS PRESENT: [REDACTED]

NON-MEMBERS PRESENT: [REDACTED]

MEMBERS ABSENT: [REDACTED]

Meeting Start Time: 1:30 pm
Meeting End Time: 2:10 pm

Committee members were reminded at the onset of the meeting of the Conflict of Interest policy, which requires that they recuse themselves from the deliberation and voting on protocols for which they may have a real or perceived conflict of interest.

Vote to Approve June 24, 2020 Meeting Minutes

Vote – Yes: 11; No: 0; Abstain: 1

Vote to Approve July 15, 2020 Meeting Minutes

Vote – Yes: 11; No: 0; Abstain: 1

ANNOUNCEMENTS

1. [REDACTED] provided an update on the USDA Registration Renewal that was submitted electronically.
2. The university has received another FOI request; [REDACTED] and [REDACTED] are working to respond.
3. Fall meeting schedule, [REDACTED] will circulate a doodle poll seeking availability.

DEVIATION/ADVERSE EVENT/UNEXPECTED OUTCOME/ANIMAL WELFARE CONCERN REPORT

1. **Protocol [REDACTED] Adverse Event Report:** The IACUC discussed the adverse event report describing a Dorset ewe (R1019) that died after being restrained for catheter insertion in preparation for an IV glucose tolerance test. The animal was being restrained using a halter tied to a ring on the wall as well as manual restraint, and the ewe did not appear more stressed than normal, especially given the heat. After the catheter was placed, the restraint against the wall was released and the ewe fell to the ground. The animal was unresponsive, and although protocol staff attempted to revive the animal, including performing chest compressions, she could not be revived and died.

The IACUC notes that the incident was reported to the AV immediately, and that the PI took instant action to consult with the AV to explore alternative approaches to further mitigate the risks associated with restraint of livestock animals. The IACUC also notes that the PI made a self-report of the adverse event to the IACUC. The PI has made changes to the procedure when restraining animals for IV catheter placements, and animals will be untied during restraint to minimize the impact of the halter. The IACUC expects that the PI and protocol staff will continue to monitor weather conditions and adjust to earlier times during the day or different days during heat advisories, if possible. The IACUC found the corrective action to be acceptable and determined no further action was needed. A letter of acknowledgement will be sent to the PI from the Chair.

Vote to Acknowledge: (Yes: 11; No: 0; Abstain: 1)

ANIMAL CARE SERVICES REPORT

[REDACTED] discussed the June 2020 ACS Report.

TRAINING REPORT

The IACUC continues to utilize online training in-lieu of in-person training due to the pandemic. [REDACTED] will be presenting the Animal Science seminar online training on September 4.

POST APPROVAL MONITORING REPORT

No report.

PROTOCOLS RECEIVING ANNUAL REVIEW

The IACUC acknowledged the following protocols receiving annual review. The protocols were reviewed for issues by the Post Approval Monitor prior to the meeting.

1. [REDACTED]: "Teaching Field Methods for Trapping and Handling of Fish and Wildlife"
2. [REDACTED]: "Microneedle Transdermal Model Vaccine Drug Release Characterization and Evaluation"
3. [REDACTED]: "Investigating the effect of cheese, starter culture and probiotic supplementation on Inflammatory Bowel Disease and gut health in a mouse model."
4. [REDACTED]: "In vivo Regulation of Postsynaptic GABA_A Receptor Number and Synaptic Strength"
5. [REDACTED]: "Cellular Responses to Hepatotoxicants"
6. [REDACTED]: "Studies of the Visual Thalamocortical and Corticotectal Systems"
7. [REDACTED]: "Principles of Animal Nutrition"
8. [REDACTED]: "Effects of the Host Microbiota on the Immune Response of Zebrafish"
9. [REDACTED]: "Evolutionary Ecology of Winter Immunity and Microbiota in Amphibians"
10. [REDACTED]: "CB1 Receptor Modulators in Drug-Seeking Behaviors"
11. [REDACTED]: "Studies of Imprinted Gene Expression and Genome Stability in Mice"
12. [REDACTED]: "Molecular Structure and Function of Central Nervous System Postsynaptic Density Proteins"
13. [REDACTED]: "Laboratory Animal Science: ANSC 3272"

The following administrative issues were acknowledged by the IACUC:

FULL APPROVAL GRANTED – CONDITIONS MET:

1. [REDACTED]: "Nanodelivery therapeutic systems for substance use disorder"
2. [REDACTED]: "Biodegradable Piezoelectric Transducer Subcutaneous Characterization and Evaluation"

MAJOR MODIFICATIONS APPROVED BY DESIGNATED MEMBER REVIEW:

1. [REDACTED]: "Evolutionary Ecology of Winter Immunity and Microbiota in Amphibians"
2. [REDACTED]: "CB1 Receptor Modulators in Drug-Seeking Behaviors"
3. [REDACTED]: "Effects of Astaxanthin on Equine Deconditioning and Reconditioning"
4. [REDACTED]: "Development and Diseases of the Musculoskeletal System"
5. [REDACTED]: "Dynamics of Proteome and Metabolome during Bovine in vivo Oocyte Maturation"
6. [REDACTED]: "Analysis of Neural Stem Cells"

MINOR MODIFICATIONS APPROVED:

1. [REDACTED]: "Teaching Field Methods for Trapping and Handling of Fish and Wildlife"
2. [REDACTED]: "Microneedle Transdermal Model Vaccine Drug Release Characterization and Evaluation"
3. [REDACTED]: "In vivo Regulation of Postsynaptic GABA_A Receptor Number and Synaptic Strength"
4. [REDACTED]: "Heterosynaptic Plasticity and Encoding in Neocortex"
5. [REDACTED]: "Principles of Animal Nutrition"
6. [REDACTED]: "Molecular and Cellular Physiology of Spike Frequency and Epilepsy Associated KCNQ Channels"
7. [REDACTED]: "Effects of the Host Microbiota on the Immune Response of Zebrafish"
8. [REDACTED]: "Cellular and Whole Animal Mechanisms of Chemoreception"
9. [REDACTED]: "Cellular Neurophysiology of Hypothalamic Neural Circuits Governing Arousal and Energy Balance"
10. [REDACTED]: "Propargyl-Linked Antifolates (PLAs) for the Treatment of Rheumatoid Arthritis (RA)"
11. [REDACTED]: "Horse Practicum and Community Riding"
12. [REDACTED]: "Horse Practicum and Community Riding"
13. [REDACTED]: "Generation of Hyper-immune Bovine Colostrum against PT-gliadin"
14. [REDACTED]: "Generation of Hyper-immune Bovine Colostrum against PT-gliadin"
15. [REDACTED]: "Cellular and Molecular Characterization of Respiratory Control in vivo"
16. [REDACTED]: "Dynamics of Proteome and Metabolome during Bovine in vivo Oocyte Maturation"

EXEMPTIONS APPROVED:

None.

RECIPROCATIONS APPROVED:

1. [REDACTED]: "Genomic Ecology of Tidal Marsh Sparrows"

OLD BUSINESS

1. Make-up Facilities Inspection for Spring 2020/COVID Delay are planned for the next two weeks. Please contact [REDACTED] if you would like to participate in a particular inspection.
2. ANSCI Coyote sightings: Ongoing coyote sightings and incidents in which coyotes were threatening livestock and approaching people were brought to the attention of the IO by the AV and a state permit was sought and issued to the IO to allow a trapper to be hired to trap and remove the coyotes from the horsebarn hill area. Some members expressed their disappointment with this decision, as this is a seasonal threat; other methods have been taken to reduce the coyote threat in the past, and there have been no reported injuries to livestock in recent years. [REDACTED] noted that this group of coyotes seem to be losing

their fear of people and human activity, and were presenting a growing safety concern for both people and animals that had to be mitigated.

NEW BUSINESS

1. Presentation of Draft Protocol Review Form for IACUC Members: [REDACTED] presented a new tool that can be used by IACUC members to support their review of protocols. Members were asked to try using the tool on a voluntary basis and provide feedback on its utility.

Meeting adjourned 2:10 pm

**University of Connecticut
INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE**

***Minutes of Protocol & Policy Review Meeting
September 16, 2020***

IACUC CHAIRPERSON: Randall Walikonis *Randall Walikonis*

MEMBERS PRESENT: [REDACTED] (alternate for [REDACTED])

ALT. MEMBERS PRESENT:

NON-MEMBERS PRESENT: [REDACTED]

MEMBERS ABSENT: [REDACTED] (alternate for [REDACTED]) (alternate for [REDACTED])

Meeting Start Time: 1:30 pm
Meeting End Time: 3:34 pm

Committee members were reminded at the onset of the meeting of the Conflict of Interest policy, which requires that they recuse themselves from the deliberation and voting on protocols for which they may have a real or perceived conflict of interest.

[REDACTED] joined at 1:33 pm and [REDACTED] joined at 1:34 pm.

Vote to Approve August 19, 2020 Meeting Minutes

Vote – Yes: 9; No: 0; Abstain: 1

ANNOUNCEMENTS

None.

REVIEW OF COVID DELAY/SPRING 2020 SEMIANNUAL FACILITIES INSPECTION REPORT

The IACUC reviewed the COVID Delay/Spring 2020 Semiannual Facilities Inspection Report for inspection sites completed to date. The IACUC discussed the condition of the sites, classified any deficiencies as minor or significant and set dates for correction.

A major point of emphasis is the deteriorating condition of ceilings throughout housing areas in Animal Science facilities. Animal Science will be asked to provide a plan to address these deficiencies, including objectives and timelines.

■ left at 2:15 pm.

Vote to APPROVE: (Yes: 9; No: 0; Abstain: 0)

DEVIATION/ADVERSE EVENT/UNEXPECTED OUTCOME/ANIMAL WELFARE CONCERN REPORT

1. **Protocol ■ Adverse Event Report:** The IACUC discussed the adverse event report describing an incident in which protocol staff arrived to discover that three research sheep pens (pens 1/2, pen 3 and pen 5) at Livestock Unit 2 (beef and sheep barn) had been opened between 6:30 PM on 8/16/20 and their arrival that morning. The sheep in those pens were loose in the barn and intermingling; upon discovery animals were separated and placed back in the appropriate pens. The PI noted that when the students left the night before, all animals were in place and all gates were securely latched. Since the integrity of the experiment relies on these breeding age animals being kept separate, Tufts veterinary staff and the AV were consulted and the PI decided to treat all ewes over 4 months of age with prostaglandin to abort any unintentional pregnancies. The IACUC notes that this incident is one of several reported recently around the animal science facilities in which unauthorized access and/or trespassing after hours by students has been observed and reported by public safety and other sources. Although there was no direct evidence, the assumption is that students were responsible for this incident. The IACUC understands that the Animal Science department is working closely with the Attending Veterinarian, the Institutional Official and representatives from Public Safety to complete an assessment of these areas and to deploy security strategies, which could include cameras, at these locations. The IACUC will continue to monitor developments in this area and is confident that a solution will be reached to address these concerns.

Vote to Acknowledge: (Yes: 9; No: 0; Abstain: 0)

2. **Protocol [REDACTED] Adverse Event Report:** The IACUC discussed the adverse event report describing an incident that happened during routine weighing of animals. The PI describes a series of events in which ram R1068 was in the chute and being urged to walk up on to the scale. As the animal entered the scale area, he attempted to jump out of the chute over the front gate. During this, his hind leg became tangled in the gate and when he landed the weight of his body caused his leg to be broken. He was immediately removed from the gate, carried to a nearby box stall, and Tufts was immediately called. A Tufts veterinarian arrived within an hour, evaluated the animal, and in consultation with the AV, the decision was made to euthanize the animal. The IACUC acknowledges that the incident was reported to the AV immediately, and that the PI took instant action to contact emergency veterinary help; the PI also made a self-report of the adverse event to the IACUC. The IACUC further notes that this is the second handling related mishap under this protocol since August 19, 2020 that has resulted in the death or necessary euthanasia of an animal. Although the IACUC understands that on occasion, accidents may occur, there is concern regarding the relative frequency of such incidents that has been observed recently under this protocol. The IACUC determined that a letter should be sent to the PI from the IACUC Chair, detailing these concerns and directing the PI to review her procedures and provide retraining to students. This training should focus on the practices when handling and running animals through chutes and scales to ensure personnel understand the steps necessary to maintain the animal under the secure control of the handler, to prevent recurrence of this or similar incidents.

Vote to send Letter from IACUC Chair (Yes: 9; No: 0; Abstain: 0)

3. **Protocol [REDACTED] Unexpected Outcome Report:** The IACUC discussed the unexpected outcome in which subsets of mice experienced unexpected morbidity and mortality after injection with various adjuvants. After investigation it was determined that mice who received freshly made adjuvant mixtures fared well, whereas the mice that received adjuvants that had been previously mixed and stored frozen prior to thawing and injection did poorly. The PI consulted with the AV and reviewed the data, confirming that the adjuvants were handled in accordance with the protocol. During discussion at the IACUC meeting, a member familiar with the adjuvants in use indicated that the description in the protocol may not be accurate for all adjuvants used; the IACUC agreed that this member should reach out to the PI directly to further explore the possibility that the adjuvants were mixed/stored improperly. In the interim, the PI has directed his staff to mix all adjuvants fresh prior to use. The IACUC will revisit this report at a future meeting.

4. **Protocol ██████ Adverse Event Report:** The IACUC discussed the unexpected outcome in which a group of cows escaped the confines of the beef unit after a gate was left open by protocol staff after working with the animals. Barn staff worked to catch the animals and Tufts veterinary staff checked all animals; only minor scratches were reported. Retraining has already been provided to protocol staff; the AV also noted that he intends to be present for invasive procedures under this protocol moving forward. The IACUC determined that the corrective actions were appropriate and no further action was warranted.

Vote to Acknowledge: (Yes: 9; No: 0; Abstain: 0)

ANIMAL CARE SERVICES REPORT

████ discussed the July 2020 ACS Report.

TRAINING REPORT

The IACUC continues to utilize online training in-lieu of in-person training due to the pandemic.

POST APPROVAL MONITORING REPORT

████ has been working on routine PAM activities.

PROTOCOLS RECEIVING ANNUAL REVIEW

The IACUC acknowledged the following protocols receiving annual review. The protocols were reviewed for issues by the Post Approval Monitor prior to the meeting.

1. ██████: "Repair of Rodent Calvarial Defect Using Ultrasound-Stimulated Electric Stimulation"
2. ██████: "Method of Dissolution for Nanosuspension/Nanoparticles"
3. ██████: "The Effects of Antibiotics on Allergic Airway Disease in Mice"

The following administrative issues were acknowledged by the IACUC:

FULL APPROVAL GRANTED – CONDITIONS MET:

1. ██████: "Physiology and Anatomy Frog Teaching Experiments-Fall, Spring, Summer"
2. ██████: "Functional Electrode Stimulation System for Precision Limb Coordination"
3. ██████: "Mechanisms of non-coding RNAs in alcoholic and non-alcoholic liver diseases"
4. ██████: "Study of a Robotic Manipulator Designed for In Vitro Fertilization of Zebrafish Eggs"

MAJOR MODIFICATIONS APPROVED BY DESIGNATED MEMBER REVIEW:

1. [REDACTED]: "ACS Training Protocol for Mice, Rats and Zebrafish"
2. [REDACTED]: "Microneedle Transdermal Model Vaccine Drug Release Characterization and Evaluation"
3. [REDACTED]: "NGS2 Cells in the Neural Network"
4. [REDACTED]: "Plain Stamp Style Shoes for Management of Hind End Lameness in Equines"

MINOR MODIFICATIONS APPROVED:

1. [REDACTED]: ""Synaptic and Circuit Representations of Safety""
2. [REDACTED]: "Evaluation of Serine Dipeptide Lipids on Cholesterol Metabolism and Atherosclerosis"
3. [REDACTED]: ""Evolutionary Studies in Slender Salamanders (Batrachoseps) and Skinks (Plestiodon)""
4. [REDACTED]: "Reciprocal Genetics of Recently-evolved Vertebrate Immunity and Peritoneal Helminth Counter-adaption"
5. [REDACTED]: "Field Herpetology – EEB3898-12"
6. [REDACTED]: "Ecology and Evolution of Lungless Salamanders (Family Plethodontidae) in the Eastern United States"
7. [REDACTED]: "Afferent Mechanisms of Colorectal Hypersensitivity"
8. [REDACTED]: "Microneedle Transdermal Model Vaccine Drug Release Characterization and Evaluation"
9. [REDACTED]: "The Effects of Antibiotics on Allergic Airway Disease in Mice"
10. [REDACTED]: "UConn Sheep Unit General Husbandry Protocol"
11. [REDACTED]: "Poor Maternal Nutrition Across Generations: Roles for Oxidative Stress, Metabolism, and Inflammation"
12. [REDACTED]: "UConn Polo Practicum"
13. [REDACTED]: "Molecular and Cellular Physiology of Spike Frequency and Epilepsy Associated KCNQ Channels"
14. [REDACTED]: "Cellular and Whole Animal Mechanisms of Chemoreception"
15. [REDACTED]: "Understanding the Role of RNA Processing in Mammalian Development"
16. [REDACTED]: "Understanding the Role of RNA Processing in Mammalian Development"
17. [REDACTED]: "Effects of Astaxanthin on Equine Deconditioning and Reconditioning"
18. [REDACTED]: "Generation of Hyper-immune Bovine Colostrum against PT-gliadin"

EXEMPTIONS APPROVED:

None.

RECIPROCATIONS APPROVED:

None.

OLD BUSINESS

█ asked about coyote situation from last meeting. █ mentioned they have trapped three animals and the permit extension is until September 17. Trapper thinks there are two additional coyotes. █ will keep the IACUC updated on the proceedings.

NEW BUSINESS

Consent for the following items to be approved by the Policies and Procedures Subcommittee:

SOP Number	Title	Comment
SOP 2-007	Feed and Bedding Storage	Only added section 3.4.2 to extend shelf life of rabbit food (see attached product stability sheet).
SOP 4-005	Environmental Enrichment for Laboratory Animals	Added a couple minor edits such as a statement about switching our enrichment rather than taking it away completely, and adding forage boards for chickens.
SOP 4-006	Chicken Husbandry in Electric Brooders	Cleaned up and replacing SOP 1009
SOP 4-016	Quarantine Room Husbandry	Cleaned up and replacing SOP 2034
P-011	Policy on Protocol Oversight During Principal Investigator Absence	New policy for protocol oversight in absence of PI
P-012	Policy on Obtaining ACS Vivarium Access	New policy for obtaining and retaining vivaria access. Also see attached form #2202.
G-0020	Guidance for Satellite Animal Housing	New guidance for satellite animal housing

P-011 should be revised to accommodate PIs on sabbatical and focus more on PIs that leave the university/do not properly designate alternate contacts.

SOP 2-007 should be revised to be less strict on room numbers.

SOP 4-005 should be revised to say recommended rather than expected. Shavings should be added.

█ left at 3:31 pm.

Vote to Approve all (except P-011) with the edits noted above: (Yes: 8; No: 0; Abstain: 0)

P-011 will be brought to a future meeting for review.

Meeting adjourned 3:34 pm

**University of Connecticut
INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE**

***Minutes of Protocol & Policy Review Meeting
October 14, 2020
WebEx***

IACUC CHAIRPERSON: Randall Walikonis *Randall Walikonis*

MEMBERS PRESENT: [REDACTED] (alternate
for [REDACTED] (alternate for [REDACTED])

ALT. MEMBERS PRESENT: [REDACTED]

NON-MEMBERS PRESENT: [REDACTED]

MEMBERS ABSENT: [REDACTED]

Meeting Start Time: 1:30 pm
Meeting End Time: 3:00 pm

Committee members were reminded at the onset of the meeting of the Conflict of Interest policy, which requires that they recuse themselves from the deliberation and voting on protocols for which they may have a real or perceived conflict of interest.

[REDACTED] and [REDACTED] joined at 1:31 pm.

Vote to Approve September 16, 2020 Meeting Minutes

Vote – Yes: 11; No: 0; Abstain: 1

ANNOUNCEMENTS

There will be two meetings in October to complete the semiannual program review and discussion of the inspection findings.

REVIEW OF REMAINING LOCATIONS SPRING/COVID-19 DELAYED 2020 SEMIANNUAL FACILITIES INSPECTION REPORT

The IACUC reviewed the October 2020 Semiannual Facilities Inspection Report for inspection sites completed to date. The IACUC discussed the condition of the sites, classified any deficiencies as minor or significant and set dates for correction.

Vote to APPROVE: (Yes: 12; No: 0; Abstain: 0)

REVIEW OF DOCUMENTATION FOR OCTOBER 2020 SEMIANNUAL PROGRAM EVALUATION

- a. **Blank IACUC Semiannual Program Review Checklist**
- b. **Exceptions to the Guide/PHS Policy**
- c. **Copy of Spring/COVID Delay 2020 Semiannual Report**
- d. **List of Active Animal Protocols**
- e. **PHS Animal Welfare Assurance**
- f. **Documentation to be signed in support of NOT-OD-09-035: "IACUC Actions Following Full Committee Review (FCR)"**

■ left at 2:15 pm.

DEVIATION/ADVERSE EVENT/UNEXPECTED OUTCOME/ANIMAL WELFARE CONCERN REPORT

1. **Protocol ■ Adverse Event Report:** The IACUC discussed the adverse event report describing an incident in which protocol staff arrived to discover an adult cow stuck inside the feed bunk. This was the first instance of such an event, and upon inspection, the bunker itself and the bars surrounding it were intact. It was unclear how the animal managed to find herself inside the bunker, but she may have been upended into it by other animals as they crowded around each other at the bunker. Staff worked to free her from the bunker and performed a brief examination to check for injury, the animal appeared to be fine. The AV confirmed later that the animal was not injured as a result. This appeared to be an unexpected incident, with no apparent cause or issue to be corrected. The IACUC determined that no further action was necessary and voted to acknowledge the report.

Vote to Acknowledge: (Yes: 11; No: 0; Abstain: 0)

2. **Protocol [REDACTED] Adverse Event Report:** The IACUC discussed the adverse event report describing an incident in which mice experienced unexpected morbidity and mortality after their body temperatures dropped after being gavaged with ethanol. Although animals were placed on a heating pad to support the maintenance of temperature, the pad was malfunctioning. During the review of protocol procedures with ACS staff, it was determined that protocol staff failed to follow the procedures as described in the approved protocol. These lapses included: (1) stopping the daily feeding of the alcohol diet early, and gavaging the mice at Day 15 as opposed to Day 30; (2) failing to maintain a written record of daily weights for the mice; and, (3) failing to provide ongoing monitoring of the unconscious mice after gavage to ensure appropriate supportive care (temperature) was provided. The IACUC notes that the PI and her staff have met with the ACS veterinary staff to discuss the need for modifications to the protocol to ensure the approved procedures are in keeping with the experimental needs. The IACUC determined that a letter should be written to the PI summarizing the incident and noting the following corrective actions: (1) a protocol modification should be submitted as soon as possible; (2) the PI and lab staff should receive refresher training on the proper documentation to be maintained as described under this protocol.

Vote to Write Letter from Chair: (Yes: 11; No: 0; Abstain: 0)

ANIMAL CARE SERVICES REPORT

[REDACTED] discussed the August 2020 ACS Report.

TRAINING REPORT

The IACUC continues to utilize online training in-lieu of in-person training due to the pandemic.

POST APPROVAL MONITORING REPORT

[REDACTED] has been working on routine PAM activities.

PROTOCOLS RECEIVING ANNUAL REVIEW

The IACUC acknowledged the following protocols receiving annual review. The protocols were reviewed for issues by the Post Approval Monitor prior to the meeting.

1. [REDACTED]: "UConn Poultry Unit General Husbandry"
2. [REDACTED]: "Murine Behavioral Neurogenetics Facility; Behavioral Phenotyping Services for Genetic Mouse Models"
3. [REDACTED]: "Third statewide assessment of mercury contamination in fish tissue from Connecticut lakes"
4. [REDACTED]: "Cellular and Whole Animal Mechanisms of Chemoreception"
5. [REDACTED]: "Cellular Neurophysiology of Hypothalamic Neural Circuits Governing Arousal and Energy Balance"

6. [REDACTED]: "Understanding the Role of RNA Processing in Mammalian Development"
7. [REDACTED]: "Propargyl-Linked Antifolates (PLAs) for the Treatment of Rheumatoid Arthritis (RA)"

The following administrative issues were acknowledged by the IACUC:

FULL APPROVAL GRANTED – CONDITIONS MET:

None

MAJOR MODIFICATIONS APPROVED BY DESIGNATED MEMBER REVIEW:

1. [REDACTED]: "Measurements of Immune Function in Murine Systems"
2. [REDACTED]: "Next Generation Delivery of Chemically Modified Nucleic Acids for Gene Editing as well as Targeting for Treating Genetic Disorders and Malignant Diseases"
3. [REDACTED]: "Microneedle Transdermal Model Vaccine Drug Release Characterization and Evaluation"
4. [REDACTED]: "Studies of the Visual Thalamocortical and Corticotectal Systems"
5. [REDACTED]: "Cellular and Whole Animal Mechanisms of Chemoreception"

MINOR MODIFICATIONS APPROVED:

1. [REDACTED]: "The Hawaiian Bobtail Squid, *Euprymna scolopes*, as a Model for Host-Microbe Research"
2. [REDACTED]: "UConn Poultry Unit General Husbandry"
3. [REDACTED]: "Murine Behavioral Neurogenetics Facility; Behavioral Phenotyping Services for Genetic Mouse Models"
4. [REDACTED]: "UConn Beef General Husbandry"
5. [REDACTED]: "UConn Swine Unit General Husbandry"
6. [REDACTED]: "UConn Dairy Unit General Husbandry"
7. [REDACTED]: "UConn Sheep Unit General Husbandry Protocol"
8. [REDACTED]: "UConn Horse Unit General Husbandry Protocol"
9. [REDACTED]: "Third statewide assessment of mercury contamination in fish tissue from Connecticut lakes"
10. [REDACTED]: "Rabbit Medial Femoral Condyle Defect Repair"
11. [REDACTED]: "Investigating the Strongyle Load on Hematology of Horses"
12. [REDACTED]: "Generation of Hyper-immune Bovine Colostrum against PT-gliadin"
13. [REDACTED]: "Dynamics of Proteome and Metabolome during Bovine in vivo Oocyte Maturation"

EXEMPTIONS APPROVED:

1. [REDACTED]: "Effects of Forest Fragmentation on Lepidopteran Herbivores of Contrasting Diet Breadth"

2. [REDACTED]: "Poxviral infections of sheep and goats and the emergence of Peste des Petit Ruminants (PPR) in Kazakhstan: prevalence of diseases and genetic characterization of circulating viruses"

RECIPROCATIONS APPROVED:

None.

OLD BUSINESS

The response from the PI on the [REDACTED] Adverse Event Letter from IACUC Chair was discussed.

NEW BUSINESS

The IACUC discussed adopting the ACS Vivarium Orientation Training as an IACUC Retraining Option. [REDACTED] agreed to work with [REDACTED] on adding IACUC-centric content to the training module.

Meeting adjourned 3:00 pm

**University of Connecticut
INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE**

*Minutes of Protocol & Policy Review Meeting
October 28, 2020
WebEx*

IACUC CHAIRPERSON: Randall Walikonis *Randall Walikonis*

MEMBERS PRESENT: [REDACTED] (alternate for [REDACTED])
[REDACTED] (alternate for [REDACTED])

ALT. MEMBERS PRESENT: [REDACTED]

NON-MEMBERS PRESENT: [REDACTED]

MEMBERS ABSENT: [REDACTED]

Meeting Start Time: 1:30 pm
Meeting End Time: 2:14 pm

Committee members were reminded at the onset of the meeting of the Conflict of Interest policy, which requires that they recuse themselves from the deliberation and voting on protocols for which they may have a real or perceived conflict of interest.

ANNOUNCEMENTS

None.

SEMIANNUAL REPORT

Completion of Activities: The following documents were distributed at the meeting:

1. **Semiannual Facilities Inspection Report:** The IACUC reviewed the list of facilities and labs that had been inspected to date and characterized the findings and set completion dates as required by the regulations.

Vote to Approve Semiannual Facilities Inspection Report (Yes: 10; No: 0; Abstain: 0)

2. **Semiannual Program Review Checklist:** The IACUC reviewed the Semiannual Program Review Checklist. The IACUC found all of the areas under review to be acceptable. The IACUC made a notation related to future development of a more formalized procedure when incoming animals are brought into ANSCI facilities for research projects.

Vote to Approve Semiannual Program Evaluation (Yes: 10; No: 0; Abstain: 0)

3. As part of the Semiannual Program Evaluation, the following documents were also available for the IACUC members' review at the meeting:
 - a. Exceptions to the Guide/PHS Policy
 - b. List of Active Animal Protocols
 - c. PHS Animal Welfare Assurance
 - d. Copy of Spring/COVID Delay 2020 Semiannual Report
4. The IACUC membership has unanimously approved the use of designated member review following full committee review for the next 6-month cycle. The signed document will be filed with this cycle's semiannual report documentation.

DEVIATION/ADVERSE EVENT/UNEXPECTED OUTCOME/ANIMAL WELFARE CONCERN REPORT

1. **Protocol [REDACTED] Unexpected Outcome Report:** The IACUC discussed the unexpected outcome report describing a series of incidents in which cows on study experienced ketosis, metritis, difficult births and other “routine” ailments commonly associated with calving. The PI and study staff felt it was important to document these incidents, as these animals were on study at the time of calving. The PI reports that most dairy cows require additional calcium immediately after calving, and that all animals are observed closely for metritis, ketosis, and GI upset. All animals recovered, and only one death was reported: a stillborn bull calf. The IACUC determined that no further action was necessary and voted to acknowledge the report.

Vote to Acknowledge: (Yes: 10; No: 0; Abstain: 0)

OLD BUSINESS

None.

NEW BUSINESS

The IACUC briefly discussed the paper on reproducibility that was submitted as member education by CS.

Meeting adjourned 2:14 pm

ANNOUNCEMENTS

████ informed the IACUC that the annual USDA inspection occurred on November 3-4, no non-compliant items were identified.

████ will be sending out a doodle poll to identify possible days/times for the spring meeting schedule.

REVIEW OF SEMIANNUAL REPORT TO THE IO

████ presented the final draft of the complete Fall 2020 report, including the cover letter to the Institutional Official. The IACUC reviewed and voted to approve the report, with a majority of members signing.

Vote to Approve Semiannual Report to the IO: (Yes: 10; No: 0; Abstain: 0)

DEVIATION/ADVERSE EVENT/UNEXPECTED OUTCOME/ANIMAL WELFARE CONCERN REPORT

1. **Protocol █████ Protocol Deviation Report:** The IACUC discussed the protocol deviation report describing a incident in which, on the weekend days of October 17 & 18, 2020, a post-surgical rat was observed by protocol staff to be losing weight and lethargic, and these observations were noted in the animal record. Despite these observations, ACS staff was not alerted until the following Monday (October 19, 2020). After several days of supportive care, the animal's condition did not improve, and it was humanely euthanized on October 22, 2020. The IACUC notes that the PI and his lab staff met with ACS veterinary and training staff to discuss the incident, and that the PI made a self-report of the adverse event to the IACUC. The IACUC determined that retraining for listed protocol personnel in humane endpoints and animal welfare reporting was indicated. The IACUC determined that a letter from the IACUC Chair should be drafted and sent to the PI summarizing the incident and required corrective actions.

Vote to Send Letter from Chair: (Yes: 10; No: 0; Abstain: 0)

████ left the meeting at 1:56 and returned at 1:57 pm.

2. **Protocol █████ Unexpected Outcome/Adverse Event Report:** The IACUC discussed the unexpected outcome/adverse event report describing an incident in which an axolotl died approximately 24 hours after amputation surgery, apparently a result of desquamation that occurred after exposure to the 0.5% sulfamerazine used as an antibiotic treatment after surgery. Upon further investigation it was determined that this antibiotic and concentration was selected during the vet consult with the AV with a goal of developing the most appropriate plan for post-op care for these animals, and that the 0.5% sulfamerazine mixture was selected and prepared according to the literature and approved protocol and that such an outcome was unexpected. The IACUC acknowledges

that the incident was reported to the AV immediately, and that the PI took instant action to consult with the AV to explore alternative approaches to further mitigate the risks associated with post-surgical drug treatments in axolotls. The IACUC notes that after further research in collaboration with the AV the PI has modified his protocol use a 0.1% sulfamerazine concentration in 40% Holfreter's Solution, as well as to use gauze soaked in tank water instead of Shieldex to eliminate it as a possible cause. The IACUC determined that the corrective actions already taken were appropriate and voted to acknowledge the report.

Vote to Acknowledge: (Yes: 10; No: 0; Abstain: 0)

ANIMAL CARE SERVICES REPORT

█ discussed the September 2020 ACS Report.

TRAINING REPORT

The IACUC continues to utilize online training in-lieu of in-person training due to the pandemic.

POST APPROVAL MONITORING REPORT

█ has been working on routine PAM activities.

PROTOCOLS RECEIVING ANNUAL REVIEW

The IACUC acknowledged the following protocols receiving annual review. The protocols were reviewed for issues by the Post Approval Monitor prior to the meeting.

1. █ : "Use of Domestic Farm Animals in Animal Science Training"
2. █ : "Heterosynaptic Plasticity and Encoding in Neocortex"
3. █ : "UConn Beef General Husbandry"
4. █ : "In Vitro-In Vivo Correlations of Parenteral Drug Products"
5. █ : "Use of Companion Animals in Teaching ANSC 1676 / SAAS 276"
6. █ : "Evaluation of Dairy Lipids on Gut Microbiota Composition and Colitis Development"

The following administrative issues were acknowledged by the IACUC:

FULL APPROVAL GRANTED – CONDITIONS MET:

1. [REDACTED]: "Novel Upstream Regulation of the Hippo Pathway"
2. [REDACTED]: "Isolation of Macrophages from Pigs"
3. [REDACTED]: "A New Paradigm in Sperm Sorting for Sex Selection"
4. [REDACTED]: "Measurements of Immune Function in Murine Systems"
5. [REDACTED]: "Mycoplasma pneumoniae Vaccine Development"
6. [REDACTED]: "Phenotypic and genotypic effects of ocean warming, acidification, and hypoxia on coastal marine fish"
7. [REDACTED]: "Identification of Human Liver Stem Cells and their Differentiation in vivo"
8. [REDACTED]: "Abundance of Medium and Large Sized Mammals in Exurban Landscapes"
9. [REDACTED]: "Mechanosensing and the Integration of Cytoskeleton Function in Moving Cells"
10. [REDACTED]: "ACS Training Protocol for Mice, Rats and Zebra Fish"

MAJOR MODIFICATIONS APPROVED BY DESIGNATED MEMBER REVIEW:

1. [REDACTED]: "Nanocarriers for Enhancing the Effects of Cancer Chemotherapy"
2. [REDACTED]: "Investigating the effect of cheese, starter culture and probiotic supplementation on Inflammatory Bowel Disease and gut health in a mouse model."
3. [REDACTED]: "Nanomaterials delivery platform against arthritis"
4. [REDACTED]: "Nanomaterials delivery platform against arthritis"
5. [REDACTED]: "In Vivo Performance Testing of Implant Drug Products"
6. [REDACTED]: "Evaluation of Dietary Factors on Energy Metabolism, Inflammation, and Fibrosis"
7. [REDACTED]: "Understanding the Role of the Minor Spliceosome in Limb Regeneration"
8. [REDACTED]: "Investigation of Cannabinoids"
9. [REDACTED]: "Generation of Hyper-immune Bovine Colostrum against PT-gliadin"

MINOR MODIFICATIONS APPROVED:

1. [REDACTED]: "Reciprocal Genetics of Recently-evolved Vertebrate Immunity and Peritoneal Helminth Counter-adaption"
2. [REDACTED]: "Mechanisms of Neocortical Development"
3. [REDACTED]: "ACS Animal Holding Protocol for Laboratory Animals"
4. [REDACTED]: "Department of Animal Science Holding Protocol"
5. [REDACTED]: "UConn Dairy Unit General Husbandry"
6. [REDACTED]: "Poor Maternal Nutrition Across Generations: Roles for Oxidative Stress, Metabolism, and Inflammation"
7. [REDACTED]: "Poor Maternal Nutrition Across Generations: Roles for Oxidative Stress, Metabolism, and Inflammation"
8. [REDACTED]: "Evaluation of Dietary Factors on Energy Metabolism, Inflammation, and Fibrosis"

9. [REDACTED]: "Cellular Neurophysiology of Hypothalamic Neural Circuits Governing Arousal and Energy Balance"
10. [REDACTED]: "Understanding the Role of RNA Processing in Mammalian Development"
11. [REDACTED]: "Use of Companion Animals in Teaching ANSC 1676 / SAAS 276"
12. [REDACTED]: "Investigation of Cannabinoids"
13. [REDACTED]: "Investigation of Cannabinoids"
14. [REDACTED]: "Cellular and Molecular Characterization of Respiratory Control in vivo"
15. [REDACTED]: "Age Related Changes in Learning and Memory"
16. [REDACTED]: "Dynamics of Proteome and Metabolome during Bovine in vivo Oocyte Maturation"
17. [REDACTED]: "Neuropharmacology of effort-related aspects of motivation"
18. [REDACTED]: "Modeling and treating autoimmunity disease and cancer in mice"

EXEMPTIONS APPROVED:

1. [REDACTED]: "Ecology of Eastern Coyotes at McLean Game Refuge"

RECIPROCATIONS APPROVED:

None.

OLD BUSINESS

None.

NEW BUSINESS

Consent for the following items to be approved by the Policies and Procedures Subcommittee:

SOP Number	Title	Comment
SOP 5-017	Rabbit Intubation	added V-gel for a second method of intubation
G-0021	Guidance for Blood Collection Volume and Frequency in Laboratory Animals (formerly SOP 2021)	replacing SOP 2021, nothing has changed just re-formatted into a guidance
G-0022	Guidance for Blood Sample Collection Methods from Rodents	new guidance that goes in more detail on rodent blood collection
G-0024	Guidance for Fish and Aquatic Amphibian Anesthesia	new guidance, replacing SOP 2002

Vote to Approve all with the edits noted above: (Yes: 10; No: 0; Abstain: 0)

Meeting adjourned 2:09 pm

**University of Connecticut
INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE**

***Minutes of Protocol & Policy Review Meeting*
December 16, 2020
WebEx**

IACUC CHAIRPERSON: Randall Walikonis *Randall Walikonis*

MEMBERS PRESENT: [REDACTED]
(alternate for [REDACTED])

ALT. MEMBERS PRESENT: [REDACTED]

NON-MEMBERS PRESENT: [REDACTED]

MEMBERS ABSENT: [REDACTED]

Meeting Start Time: 1:30 pm
Meeting End Time: 2:14 pm

Committee members were reminded at the onset of the meeting of the Conflict of Interest policy, which requires that they recuse themselves from the deliberation and voting on protocols for which they may have a real or perceived conflict of interest.

Vote to Approve November 18, 2020 Meeting Minutes
Vote – Yes: 9; No: 0; Abstain: 2

ANNOUNCEMENTS

█ informed the IACUC that another FOIA request has been made requesting specific protocols associated with animals identified as a result of a previous FOI request. She is working with the public records office to respond.

█ joined at 1:35 pm and left at 1:37 pm.

ANNUAL REVIEW OF PROTOCOLS INVOLVING USDA SPECIES

Protocol No. █: "Neuronal Mechanisms for Sound Analysis in the Awake Rabbit Auditory System"

Primary Reviewer: █

The IACUC reviewed the continuation and the updated search for alternatives to Category D procedures provided by the PI as part of the annual review process.

Vote to Approve: (Yes: 10; No: 0; Abstain: 0)

DEVIATION/ADVERSE EVENT/UNEXPECTED OUTCOME/ANIMAL WELFARE CONCERN REPORT

None.

ANIMAL CARE SERVICES REPORT

█ discussed the October 2020 ACS Report.

TRAINING REPORT

The IACUC continues to utilize online training in-lieu of in-person training due to the pandemic.

POST APPROVAL MONITORING REPORT

█ is working with █ to ensure that non-invasive urine collection for glucose readings is included in his recently renewed protocol █.

PROTOCOLS RECEIVING ANNUAL REVIEW

The IACUC acknowledged the following protocols receiving annual review. The protocols were reviewed for issues by the Post Approval Monitor prior to the meeting.

1. █: "The Hawaiian Bobtail Squid, *Euprymna scolopes*, as a Model for Host-Microbe Research"

2. [REDACTED]: "Reducing the colonization of Salmonella Enteritidis (SE)/ Salmonella Heidelberg (SH) and Campylobacter jejuni in chickens with beta-resorcyate (BR), sodium picolinate, alpha lipoic acid , and nanoemulsions of trans-cinnamaldehyde and caprylic acid, and assess the inhibitory effect of trans-cinnamaldehyde, carvacrol, beta-resorcyate and caprylic acid on transfer of antibiotic resistance from Salmonella to commensal E. coli"
3. [REDACTED]: "Mycoplasma gallisepticum Virulence and Vaccine"
4. [REDACTED]: "Methods for serially multiplexed labeling in EM reconstructions of brain tissue"
5. [REDACTED]: "Effects of Deepwater Horizon Oil on Mouse Reproductive and Immune Functions Upon Oral Exposure"
6. [REDACTED]: "Nanomaterials delivery platform against arthritis"
7. [REDACTED]: "Nanomatrix for fracture repair"
8. [REDACTED]: "Epigenetic Mechanisms in Primary Neurons"
9. [REDACTED]: "Satellite Cell Isolation from Sheep Muscle"
10. [REDACTED]: "Effects of Astaxanthin on Equine Deconditioning and Reconditioning"
11. [REDACTED]: "Promoting Growth and Reducing the Colonization of Salmonella enteritidis in Broiler and Layer Chickens Using Probiotics"
12. [REDACTED]: "Horse Practicum and Community Riding"

The following administrative issues were acknowledged by the IACUC:

FULL APPROVAL GRANTED – CONDITIONS MET:

1. [REDACTED]: "Focused Ultrasound Stimulation for Spinal Cord Injury"
2. [REDACTED]: "Neurotechnologies for Brain-Machine Interfaces"
3. [REDACTED]: "Physiology and Neurobiology Experiment Rodents"
4. [REDACTED]: "GlucoWizzard Multisensor Trial"

MAJOR MODIFICATIONS APPROVED BY DESIGNATED MEMBER REVIEW:

1. [REDACTED]: "Neutron-Activatable Nanoparticles for Targeted Radionuclide Therapy"
2. [REDACTED]: "Poor Maternal Nutrition Across Generations: Roles for Oxidative Stress, Metabolism, and Inflammation"
3. [REDACTED]: "CB1 Receptor Modulators in Drug-Seeking Behaviors"
4. [REDACTED]: "Modeling and treating immunodeficiency, autoimmunity disease and cancer in mice"
5. [REDACTED]: "Biodegradable Piezoelectric Transducer Subcutaneous Characterization and Evaluation"

MINOR MODIFICATIONS APPROVED:

1. [REDACTED]: "Next Generation Delivery of Chemically Modified Nucleic Acids for Gene Editing as well as Targeting for Treating Genetic Disorders and Malignant Diseases"
2. [REDACTED]: "Mechanisms of Neocortical Development"

3. [REDACTED]: "The Hawaiian Bobtail Squid, Euprymna scolopes, as a Model for Host-Microbe Research"
4. [REDACTED]: "Mycoplasma gallisepticum Virulence and Vaccine"
5. [REDACTED]: "Methods for serially multiplexed labeling in EM reconstructions of brain tissue"
6. [REDACTED]: "Nanomaterials delivery platform against arthritis"
7. [REDACTED]: "Epigenetic Mechanisms in Primary Neurons"
8. [REDACTED]: "Satellite Cell Isolation from Sheep Muscle"
9. [REDACTED]: "Poor Maternal Nutrition Across Generations: Roles for Oxidative Stress, Metabolism, and Inflammation"
10. [REDACTED]: "Tissue Engineering to Enhance Biosensor Function in vivo: Diabetic Rat Model"
11. [REDACTED]: "The role of lncRNAs in P450-mediated drug metabolism and drug-induced liver injury"
12. [REDACTED]: "Cellular Neurophysiology of Hypothalamic Neural Circuits Governing Arousal and Energy Balance"
13. [REDACTED]: "Effects of Astaxanthin on Equine Deconditioning and Reconditioning"
14. [REDACTED]: "Horse Practicum and Community Riding"
15. [REDACTED]: "Neuropharmacology of effort-related aspects of motivation"
16. [REDACTED]: "Biodegradable Piezoelectric Transducer Subcutaneous Characterization and Evaluation"
17. [REDACTED]: "Mechanisms of non-coding RNAs in alcoholic and non-alcoholic liver diseases"
18. [REDACTED]: "Study of a Robotic Manipulator Designed for In Vitro Fertilization of Zebrafish Eggs"

EXEMPTIONS APPROVED:

1. [REDACTED]: "Effect of LED lighting on bat foraging activity"

RECIPROCATIONS APPROVED:

None.

OLD BUSINESS

None.

NEW BUSINESS

[REDACTED] and [REDACTED] asked for an update on contingency plans to backfill any COVID related staffing shortages in ACS. [REDACTED] suggested that they would pull in personnel from labs in an emergency.

[REDACTED] left at 2:01 pm.

MEMBER EDUCATION

The IACUC discussed the Lab Animal Protocol Review Column by Jerald Silverman: **“Should a primate pair put asunder be reunited?”**

Meeting adjourned 2:14 pm