

*University of Louisville*  
**Institutional Animal Care and Use Committee**  
**Meeting Minutes**  
Thursday, 15 October 2020, 9:00 AM  
*Teleconference*

**Members Present:**

Dr. Pascale Alard  
Dr. Geoffrey Clark  
Dr. Cynthia Corbitt\*  
Dr. Swati Joshi-Barve\*  
Dr. Amanda LeBlanc  
Dr. Ben Lovely  
Dr. David Magnuson  
Dr. Kenneth Palmer  
Dr. George Pantalos  
Dr. Karen Powell  
Dr. Mary Proctor  
Dr. Katie Emmer, *Alternate*  
*for Dr. Leslie Sherwood*  
Dr. David Samuelson  
Ms. Kathleen Smith  
Dr. Sucheta Telang

**Members Absent:**

Dr. Leslie Sherwood

**Additional Attendees:**

Dr. Katie Emmer  
Ms. Brigitte Foote  
Dean Toni Ganzel  
Ms. Cheri Hildreth  
Ms. Claire Kuszajewski  
Ms. Tegan Tulloch

\*Not present for the entire meeting; see notes below

**I. Call to Order and Approval of the Minutes from the Previous Monthly Meeting, 17 September 2020 (Attachment 1)**

Dr. Pantalos called the meeting to order at 9:12 AM with 13 voting members present.

The minutes from the previous meeting were presented for review. *A motion to accept the minutes was unanimously approved* (13 “in favor,” none opposed, no abstentions).

Ms. Kuszajewski, a visiting veterinary student from LMU, was introduced to the Committee.

**II. Ratification of Approved *Proposals* (Attachment 2)**

All Committee members had an opportunity to individually review “Proposals to Use Laboratory Animals in Research and Teaching” (*Proposals*) presented for IACUC approval. *The following proposals were ratified with all eligible votes in favor and abstentions due to a conflict of interest for the following:* 19549 (Martin [Powell]), 20739 (Powell), 20810 (Martin [Powell]), 20814 (Neimat [Powell]), 20816 (Abolins [Corbitt]), and 20817 (Proctor [Emmer]).

*New Proposals:* 20760 20787 20808

*Three Year Renewals:* 20810 20811 20817

*Modifications:* 17153 17169 18236 18336 18355 18356 18404 19490 19534 19545 19549 19603 19620 19625 19647 19665 20682 20693 20706 20739

*Annual Review:* 17120 19510

*Tissue:* 20814 20816

*Administrative Modification:* 18226 18234 18253 18327 18350 18398 19535 19545 19546 19661 20722 20726 20727 20772 20781

### III. Continuing Education, Policy Review, iRIS Improvements

#### A. SCAW Workshop Today (*Tulloch*)

Ms. Tulloch reminded the Committee that the Scientist for Animal Welfare's virtual IACUC training workshop is this afternoon. The Office of Research Services has purchased an institutional membership so all IACUC members may attend.

[Drs. Clark and Joshi-Barve joined following this discussion; voting member count = 15.]

### IV. Open Discussion / Full Committee Review

#### A. Full Committee Review: Modification to *Proposal 20764*, "Air Pollution and Heart Failure" (*LeBlanc, Pantalos, Powell, Emmer*)

As the Primary Reviewer, Dr. LeBlanc presented this modification to the Committee which requested an extension of satellite housing from 14 days to 14 weeks. The investigator has not provided appropriate and compelling scientific justification demonstrating the necessity of this extended duration of satellite housing. The primary justification currently provided is transportation stress caused by regularly moving the animals between the CMRU vivarium and the laboratory space. The investigator did not address the veterinary reviewer (Dr. Davison) comment that the use of control animals would account for any transportation stress concerns. Dr. Emmer noted that there is available CMRU vivarium and procedure space for the equipment and housing of these animals. The *Guide for the Care and Use of Laboratory Animals* (2011) clearly states, "Animals should be housed in facilities dedicated to or assigned for that purpose, not in laboratories merely for convenience" (p. 134). The Committee also discussed concerns about cage changing and sanitation if the laboratory assumes care of the animals for 14 weeks. The IACUC's recent semiannual inspections identified cage changing deficiencies in this satellite housing area maintained by the Diabetes and Obesity Center. There were also concerns about the performance of health checks and appropriate documentation by the laboratory staff. Dr. Pantalos added that, in addition to animal allergen concerns related to changing cages in the laboratory, loud chamber pumps are present in the satellite area that may stress animals and create occupational health and safety risks for research personnel.

The IACUC agreed that the investigator should be provided an opportunity to address the above detailed concerns. The Committee voted to return the *Proposal* to Designated Review and require revisions to secure approval of this modification. Dr. LeBlanc will outline and forward contingencies that must be met to the investigator including providing compelling scientific justification demonstrating the necessity and duration of satellite housing; addressing the use of control animals to account for transportation stress; addressing occupational health and safety concerns; detailing cage change and sanitation practices; and, detailing performance of health checks by research staff. The Committee also agreed that a subcommittee should be convened to review current satellite housing procedures and the IACUC policy "Laboratory and Satellite Rodent Housing." A motion to return the modification of IACUC *Proposal 20764* to Designated Review and require revisions to secure approval was **unanimously approved** (15 "in favor," none opposed, no abstentions).

### V. Old Business

#### A. Follow Up Report: *Proposal 20706*, "Model development for emerging human coronaviruses in the ferret" – *No Report Expected*

#### B. Humane Endpoints *Burkholderia* *Proposal 19657* (*Pantalos*) – *No Report Expected*

#### C. Humane Endpoints *Pseudomonas* *Proposal 19498* (*Pantalos*)

The IACUC subcommittee has drafted a letter to the Principal Investigator discussing the IACUC's expectations. The subcommittee is requesting a meeting with the PI. A report will be provided to the Committee after the subcommittee meets with the PI.

D. PETA Open Records Request (*Pantalos*)

Dr. Pantalos has contacted Sherry Pawson to obtain the official response to PETA's open record request, but has been unable to connect with her.

E. USDA APHIS Inspections (*Pantalos*) (**Attachment 3**)

The annual USDA APHIS inspections recently concluded; no noncompliant items were identified.

F. Required Training Update: Semi-Annual Report to the Institutional Official, *Preliminary* (*Pantalos*) (**Attachment 4**)

The training with Dr. Davison required by members of one laboratory regarding a significant deficiency identified during the semiannual inspections was recently completed.

G. Update: Report of Concern *Proposal 18265* (*Tulloch*) (**Attachment 5**)

Ms. Tulloch reached out to request an update from the PI regarding future surgeries, as the IACUC has required that the first three surgeries be observed by Dr. Davison. The investigator has no surgeries currently planned due to occupancy limits in place because of the COVID-19 pandemic. Ms. Hildreth stated that the investigator may contact DEHS to determine options available. Ms. Tulloch will email the investigator and inform him that DEHS can be consulted to determine appropriate ways to conduct surgeries and remain compliant with university guidelines.

## VI. New Business

A. Semi-Annual Report to the Institutional Official, *Final*, (**Attachment 6**) which includes the Semi-Annual Program Review Subcommittee Report and Recommendations (**Attachments 7A through 7P**) (*Tulloch, Joshi-Barve, Samuelson*)

The Committee reviewed and approved the final report to the Institutional Official with the following changes: correct "flood" to "food" in the semi-annual program review report; and, change the responsible individual for RRC room 36 pest trap monitoring finding from CMRU veterinary staff to CMRU husbandry staff.

*A motion to accept the final semiannual report to the Institutional Official with the above changes was unanimously approved* (15 "in favor," none opposed, no abstentions). The IACUC Office will add signatures electronically to the letter to the Institutional Official for all of the IACUC members present.

B. Adverse Event Report Proposal 19606 (*Pantalos*) (**Attachment 8**)

Dr. Pantalos summarized this adverse event which is detailed in the attached letter. The IACUC agreed that the PI's responses are adequate and appropriate.

*A motion to request send a letter thanking the investigator for the adverse event and requesting a follow-up report of the pilot study was unanimously approved* (15 "in favor," none opposed, no abstentions).

C. Adverse Event Report Proposal 18388 (*Pantalos*) (**Attachment 9**)

Dr. Pantalos summarized this adverse event which is detailed in the attached letter. The IACUC agreed that the responsible individual should attend a training session with the IACUC Chair and Attending Veterinarian to ensure that cage identities are confirmed prior to conducting any procedures with animals. The importance of reporting adverse events to the IACUC will also be

discussed. Dr. Proctor will discuss cryopreservation and breeding of rare strains with the affected investigator.

*A motion to require the responsible investigator attend a training session with the IACUC Chair and Attending Veterinarian on the topics of cage identity confirmation and reporting adverse events to the IACUC was unanimously approved* (15 “in favor,” none opposed, no abstentions).

D. Electronic Research Administration System Request for Proposal (ERA RFP) (*Tulloch, LeBlanc*)

The university is currently hosting campus presentations for electronic research administration (ERA) system vendors. The Committee was strongly encouraged to attend these presentations. The implementation of a new ERA system will affect the Committee in their roles as IACUC reviewers and as investigators.

E. \$8M NIH C06 Grant Award (*Tulloch, Proctor*)

Drs. Sherwood and Proctor were the recipients of an \$8 million grant that will be used to renovate two floors of the A-tower to create a centralized vivarium in the building. The projected completion date is October 2024.

F. Other Business

Dr. Pantalos congratulated the Committee on the recent compliment that the IACUC review of Dr. Kaufman’s proposal received from DOD ACURO. Dr. Magnuson recently conducted RBL facility inspections and noted that the CMRU and CPM staff are doing an excellent job.

## VII. Adjournment

The IACUC was reminded that the next meeting will occur via teleconference Thursday, 19 November 2020 at 9:00 a.m. *Meeting was adjourned at 10:51 AM.*

Investigator	Protocol	Original Approval	Submission Approval	Expiration	Species	Pain Class	Animals Approved
Lukashevich, Igor S	IACUC 17120	2018-01-19 00:	2020-09-29 00:	2021-01-18 00:	Guinea Pig	3	361
Annual Review						<b>Reviewers:</b> Corbitt, Cynthia, Ph.D. - Designated	
Guinea Pig Model for Immunogenicity and LCMV WE Challenge Study using ML29 DI Stocks.							
Chien, Sufan	IACUC 17153	2017-10-12 00:	2020-09-18 00:	2020-10-11 00:	Rabbit (Laboratory,	2	260
Modification						<b>Reviewers:</b> Pantalos, George - Designated	
Copy of Enhanced Energy Delivery for Wound Healing							
Guo, Yiru	IACUC 17169	2018-04-17 00:	2020-10-05 00:	2021-04-16 00:	Mouse (Laboratory)	2	1546
Modification						<b>Reviewers:</b> Pantalos, George - Designated	
iPSC, CSC, and other SC repair damaged heart in diabetic mice							
Srivastava, Sanjay	IACUC 18226	2018-04-20 00:	2020-09-21 00:	2021-04-19 00:	Mouse (Laboratory)	2	1242
Admin Mod - Study Site Change						<b>Reviewers:</b> Cantrell, Stacy	
Atherogenic Mechanisms of Arsenic in mice							
Srivastava, Sanjay	IACUC 18234	2018-05-15 00:	2020-09-22 00:	2021-05-14 00:	Rat (Laboratory)	2	316
Admin Mod- Study Site Change						<b>Reviewers:</b> Tulloch, Tegan N	
Atherogenic Mechanisms of Arsenic in Rats							
Clark, Geoffrey J	IACUC 18236	2018-06-21 00:	2020-09-29 00:	2021-06-20 00:	Mouse (Laboratory)	2	2811
Modification						<b>Reviewers:</b> Pantalos, George - Designated	
RAS AND RASSF							

Investigator	Protocol	Original Approval	Submission Approval	Expiration	Species	Pain Class	Animals Approved
Baba, Shahid P	IACUC 18253	2018-09-10 00:	2020-09-22 00:	2021-09-09 00:	Mouse (Laboratory)	3	1884
Admin mod - study site change						<b>Reviewers:</b> Tulloch, Tegan N	
Carnosine Metabolism in Diet-Induced Obesity							
Conklin, Daniel	IACUC 18327	2018-09-27 00:	2020-09-22 00:	2021-09-26 00:	Mouse (Laboratory)	2	38818
Admin mod - study site change						<b>Reviewers:</b> Tulloch, Tegan N	
Models of wound healing; treatment and interventions							
Guo, Yiru	IACUC 18336	2018-12-05 00:	2020-10-05 00:	2021-12-04 00:	Mouse (Laboratory)	2	1630
Modification						<b>Reviewers:</b> Pantalos, George - Designated	
Copy of Protection of ischemic myocardium							
Nystoriak, Matthew A	IACUC 18350	2018-10-02 00:	2020-09-21 00:	2021-10-01 00:	Mouse (Laboratory)	2	3726
Admin Mod- Study Site Change						<b>Reviewers:</b> Tulloch, Tegan	
Calcium signaling in the vasculature							
Hetman, Michal	IACUC 18355	2018-09-26 00:	2020-09-22 00:	2021-09-25 00:	Mouse (Laboratory)	2	441
Modification						<b>Reviewers:</b> Pantalos, George - Designated	
Role of the circadian gene expression regulation in pathogenesis of SCI							
Gobejishvili, Leila	IACUC 18356	2019-01-09 00:	2020-10-05 00:	2022-01-08 00:	Mouse (Laboratory)	2	3658
Modification						<b>Reviewers:</b> Pantalos, George - Designated	

Investigator	Protocol	Original Approval	Submission Approval	Expiration	Species	Pain Class	Animals Approved
The role of cAMP/PDE4 in liver injury and fibrosis							
Haberzettl, Petra	IACUC 18398	2019-01-08 00:	2020-09-22 00:	2022-01-07 00:	Mouse (Laboratory)	2	9492
Admin Mod - Study Site Change					Reviewers: Tulloch, Tegan		
Air pollution, diet-induced obesity and circadian rhythm							
Baba, Shahid P	IACUC 18404	2019-01-10 00:	2020-09-22 00:	2022-01-09 00:	Mouse (Laboratory)	2	13718
Admin Mod - Study Site Change					Reviewers: Tulloch, Tegan N		
Protective effects of Carnosine							
Petruska, Jeffrey C	IACUC 19490	2019-05-30 00:	2020-09-24 00:	2022-05-29 00:	Mouse (Laboratory)	2	15552
Admin Mod - Strain Addition					Reviewers: Tulloch, Tegan N Hopp, Torsten A, Ph.D. - IBC Reviewer		
Mouse Maintenance, Breeding, Cryopreservation, and Retrieval Protocol							
Howland, Dena R	IACUC 19510	2019-09-19 00:	2020-10-05 00:	2022-09-18 00:	Cat	2	112
Annual Review					Reviewers: Corbitt, Cynthia, Ph.D. - Designated		
Effects of Training and Extracellular Matrix Changes on Motor Recovery Post-SCI							
Conklin, Daniel	IACUC 19534	2019-10-17 00:	2020-09-15 00:	2022-10-16 00:	Mouse (Laboratory)	2	5544
Modification					Reviewers: Pantalos, George - Designated		
General Inhalation Protocol							

Investigator	Protocol	Original Approval	Submission Approval	Expiration	Species	Pain Class	Animals Approved
-Gregg, Ronald G Admin Mod - Study Site change Isolation of congenital stationary night blindness genes	IACUC 19535	2020-01-13 00:	2020-10-05 00:	2023-01-12 00:	Mouse (Laboratory)	2	5376
<b>Reviewers:</b> Tulloch, Tegan							
Cai, Jun Modification	IACUC 19545	2020-06-16 00:	2020-09-22 00:	2023-06-15 00:	Mouse (Laboratory)	3	2585
<b>Reviewers:</b> Pantalos, George - Designated							
Neuronal and oligodendroglial modulations on axonal regeneration in the CNS							
Cai, Jun Modification	IACUC 19545	2020-06-16 00:	2020-09-22 00:	2023-06-15 00:	Mouse (Laboratory)	3	2585
<b>Reviewers:</b> Pantalos, George - Designated							
Neuronal and oligodendroglial modulations on axonal regeneration in the CNS							
Cai, Jun Admin Mod - Title Change	IACUC 19545	2020-06-16 00:	2020-09-22 00:	2023-06-15 00:	Mouse (Laboratory)	3	2585
<b>Reviewers:</b> Tulloch, Tegan							
Neuronal and oligodendroglial modulations on axonal regeneration in the CNS							
Cai, Lu Admin mod - study site change	IACUC 19546	2019-08-08 00:	2020-09-23 00:	2022-08-07 00:	Mouse (Laboratory)	2	870
<b>Reviewers:</b> Tulloch, Tegan N							
Role of Nf2 and Sulforaphane in Murine Pulmonary Arterial Hypertension							
Martin, Robert C Modification	IACUC 19549	2019-12-13 00:	2020-10-05 00:	2022-12-12 00:	Pig (Domestic)	2	48
<b>Reviewers:</b> Pantalos, George - Designated							
Copy of Training Physicians for Use of a Hepatic Hemostatic Assist Devices, Surgical Resection, Stapling devices and Ablations in pig livers, pancreas, and lung.							



Investigator	Protocol	Original Approval	Submission Approval	Expiration	Species	Pain Class	Animals Approved
Egilmez, Nejat K Modification	IACUC 19603	2019-09-23 00:	2020-10-05 00:	2022-09-22 00:	Mouse (Laboratory)	2	1518
Reviewers: Pantalos, George - Designated							Overcoming anti-PD-1 resistance in lung cancer and IL-10 NanoCap for Therapy of Familial Adenomatous Polyposis and mechanisms of resistance to immune therapy in NSCLC.
Srivastava, Sanjay Modification	IACUC 19620	2019-10-10 00:	2020-09-18 00:	2022-10-09 00:	Mouse (Laboratory)	1	168
Reviewers: Pantalos, George - Designated							Effect of Fortilin inhibition on Atherosclerosis
Severson, William E Modification	IACUC 19625	2020-01-24 00:	2020-09-17 00:	2023-01-23 00:	Mouse (Laboratory)	3	1800
Reviewers: Pantalos, George - Designated							Screening of antivirals for SARS-CoV in mice
Hill, Bradford G Modification	IACUC 19647	2020-01-24 00:	2020-09-22 00:	2023-01-23 00:	Mouse (Laboratory)	2	12163
Reviewers: Pantalos, George - Designated							Interventions for obesity, CVD, and diabetes
Srivastava, Sanjay Admin mod - study site change	IACUC 19661	2019-12-18 00:	2020-09-22 00:	2022-12-17 00:	Mouse (Laboratory)	2	4958
Reviewers: Tulloch, Tegan N							Impact of VOCs exposure on cardiometabolic disease
McCall, Maureen A Modification	IACUC 19665	2020-01-31 00:	2020-09-18 00:	2023-01-30 00:	Pig (Domestic)	2	640
Reviewers: Pantalos, George - Designated							Gene therapy for blinding eye diseases

Investigator	Protocol	Original Approval	Submission Approval	Expiration	Species	Pain Class	Animals Approved
McCall, Maureen A Modification Gene therapy for blinding eye diseases	IACUC 19665	2020-01-31 00:	2020-10-09 00:	2023-01-30 00:	Pig (Domestic)	2 <b>Reviewers:</b> Pantalos, George - Designated	640
Guo, Yiru Modification Copy of Molecular Basis of Preconditioning and the roles of Cyclooxygenase-2 in Heart Failure Progression.	IACUC 20682	2020-03-24 00:	2020-10-05 00:	2023-03-23 00:	Mouse (Laboratory)	2 <b>Reviewers:</b> Pantalos, George - Designated	334
Gupta, Ramesh Modification Cancer prevention in chemical induced and xenograft models	IACUC 20693	2020-05-07 00:	2020-09-22 00:	2023-05-06 00:	Mouse (Laboratory)	2 <b>Reviewers:</b> Pantalos, George - Designated	3372
Severson, William E Modification Model development for emerging human coronaviruses in the ferret	IACUC 20706	2020-02-28 00:	2020-09-22 00:	2023-02-27 00:	Ferret	3 <b>Reviewers:</b> Pantalos, George - Designated	121
Liu, Yongqing Admin mod - study site change Sphere-induced Stem Cells and Tumor Stem Cells for Preclinical Treatments of Disorders in Murine Models	IACUC 20722	2020-07-13 00:	2020-09-16 00:	2023-07-12 00:	Mouse (Laboratory)	3 <b>Reviewers:</b> Tulloch, Tegan	499
Moore, Joseph B Admin mod - study site change Functional studies of lncRNAs regulated in cardiovascular disease	IACUC 20726	2020-05-14 00:	2020-09-21 00:	2023-05-13 00:	Mouse (Laboratory)	2 <b>Reviewers:</b> Cantrell, Stacy	9150

Investigator	Protocol	Original Approval	Submission Approval	Expiration	Species	Pain Class	Animals Approved
-Moore, Joseph B Admin Mod - study site change Functional studies of RNA editing events in cardiovascular disease	IACUC 20727	2020-06-01 00:	2020-09-21 00:	2023-05-31 00:	Mouse (Laboratory)	2	15000
<b>Reviewers:</b> Tulloch, Tegan							
Powell, Karen S Modification  Large Animal Procedures Training-Swine	IACUC 20739	2020-06-09 00:	2020-10-05 00:	2023-06-08 00:	Pig (Domestic)	2	40
<b>Reviewers:</b> Pantalos, George - Designated							
Ratajczak, Mariusz Initial Review  Role of inflammasome and ATP/Ado in stem cell homing	IACUC 20760	2020-10-05 00:	2020-10-05 00:	2023-10-04 00:	Mouse (Laboratory)	3	372
<b>Reviewers:</b> Corbitt, Cynthia, Ph.D. - Designated							
O'Toole, Timothy E Admin mod - study site change Endothelial Progenitor Cells and Particulate Air Pollution	IACUC 20772	2020-07-27 00:	2020-09-21 00:	2023-07-26 00:	Mouse (Laboratory)	2	3436
<b>Reviewers:</b> Cantrell, Stacy							
Conklin, Daniel Admin mod - study site change Cardioprotective Mechanisms of Glutathione S-transferase P	IACUC 20781	2020-08-14 00:	2020-09-22 00:	2023-08-13 00:	Mouse (Laboratory)	2	6234
<b>Reviewers:</b> Tulloch, Tegan N							
Diamond, Gill Initial Review  Innate immune mechanisms of periodontal disease and inflammatory bowel disease	IACUC 20787	2020-09-15 00:	2020-09-15 00:	2023-09-14 00:	Mouse (Laboratory)	2	12
<b>Reviewers:</b> Samuelson, David J, Ph.D. - Designated							

Investigator	Protocol	Original Approval	Submission Approval	Expiration	Species	Pain Class	Animals Approved
Diamond, Gill Initial Review  A Novel Antiviral Compound for Topical Treatment of HSV-1 Infection	IACUC 20808	2020-09-30 00:	2020-09-30 00:	2023-09-29 00:	Mouse (Laboratory)	2	400
<b>Reviewers:</b> LeBlanc, Amanda J - Designated							
Martin, Robert C 3YR  LEDC ABLATION OF HUMAN PANCREATIC ADENOCARCINOMA A MURINE MODEL	IACUC 20810	2020-10-02 00:	2020-10-02 00:	2023-10-01 00:	Mouse (Laboratory)	2	768
<b>Reviewers:</b> LeBlanc, Amanda J - Designated							
Proctor, Mary L 3YR  Mouse Quality Assurance/Surveillance Monitoring Program	IACUC 20811	2020-10-02 00:	2020-10-02 00:	2023-10-01 00:	Mouse (Laboratory)	1	1838
<b>Reviewers:</b> LeBlanc, Amanda J - Designated							
Neimat, Joseph S Tissue  Deep brain stimulation tissue protocol	IACUC 20814	2020-10-05 00:	2020-10-05 00:	2023-10-04 00:	Tissue Only	Tissue Only	
<b>Reviewers:</b> Pantalos, George - Designated							
Abolins-Aols, Mikus Tissue  Neural signaling in response to stress in songbirds	IACUC 20816	2020-10-06 00:	2020-10-06 00:	2023-10-05 00:	Tissue Only	Tissue Only	
<b>Reviewers:</b> Pantalos, George - Designated							

Investigator	Protocol	Original Approval	Submission Approval	Expiration	Species	Pain Class	Animals Approved
Hetman, Michal	IACUC 20817	2020-09-18 00:	2020-09-18 00:	2023-09-17 00:	Rat (Laboratory)	1	41
3YR						<b>Reviewers:</b> Corbitt, Cynthia, Ph.D. - Designated	

Ribosomal biogenesis and neural cell morphogenesis.



## Inspection Report

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UNIVERSITY OF LOUISVILLE  
511 S Floyd St Research Resources  
LOUISVILLE, KY 40202

Customer ID: 897  
Certificate: 61-R-0001  
Site: 001  
UNIVERSITY OF LOUISVILLE

Type: FOCUSED INSPECTION  
Date: 16-SEP-2020

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No non-compliant items identified during this inspection.

This inspection and exit interview were conducted with various facility representatives.

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**Prepared By:** REBECCA NANNEY  
USDA, APHIS, Animal Care  
**Title:** VETERINARY MEDICAL  
OFFICER

**Date:**  
17-SEP-2020

**Received by Title:** Facility Representative

**Date:**  
17-SEP-2020



### Species Inspected

Cust No	Cert No	Site	Site Name	Inspection
897	61-R-0001	001	UNIVERSITY OF LOUISVILLE	16-SEP-2020

Count	Scientific Name	Common Name
000000	NONE	NONE
000000	Total	

## Analgesia Training Sign-in Sheet

**TYPE OF TRAINING - Hands-on**

**DATE AND TIME - Thursday, October 1, 2020**

**INSTRUCTOR - Dr. Steven Davison**

**LOCATION - RRC Necropsy**

[illegible]



## Institutional Animal Care and Use Commit

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**From:** Zhang,Huang-Ge  
**Sent:** Monday, October 12, 2020 11:15 AM  
**To:** Institutional Animal Care and Use Commit  
**Cc:** Zhang,lifeng; Teng,Yun  
**Subject:** Re: IACUC 18265

Tegan,

with the 6-feet distal rule, my team can not do any surgeries because it requires at least two persons working together.

Thanks for asking.

Huang-Ge

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**From:** Institutional Animal Care and Use Commit <[iacuc@louisville.edu](mailto:iacuc@louisville.edu)>  
**Sent:** Monday, October 12, 2020 10:39 AM  
**To:** Zhang,Huang-Ge <[huangge.zhang@louisville.edu](mailto:huangge.zhang@louisville.edu)>  
**Subject:** RE: IACUC 18265

Good Morning Dr. Zhang,

I'm touching base with you on your future plans for surgeries under IACUC 18265. Last year, you indicated that depending on cell culture results you may schedule surgeries sometime between October and December 2020. As a reminder, the IACUC has required that Dr. Steven Davison observe the first three surgeries performed by your laboratory following your noncompliance last year. Please let me know the current status of your work so that I may provide the IACUC with an update. Thank you!

Best,

Tegan

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**From:** Zhang,Huang-Ge  
**Sent:** Tuesday, October 8, 2019 4:39 PM  
**To:** Institutional Animal Care and Use Commit,Service Account <[iacuc@louisville.edu](mailto:iacuc@louisville.edu)>  
**Subject:** RE: IACUC 18265

Depending on the cell culture results, if every results as I predicted, the earliest months could be 10/2020 – 12/2020

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**From:** Institutional Animal Care and Use Commit,Service Account <[iacuc@louisville.edu](mailto:iacuc@louisville.edu)>  
**Sent:** Tuesday, October 08, 2019 4:36 PM  
**To:** Zhang,Huang-Ge <[huangge.zhang@louisville.edu](mailto:huangge.zhang@louisville.edu)>  
**Subject:** RE: IACUC 18265

Hi Dr. Zhang,

Do you have a time frame for when one will be scheduled? They've asked for an update/estimation.

Thanks!

Best,

Tegan

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**From:** Zhang,Huang-Ge

**Sent:** Tuesday, October 8, 2019 4:35 PM

**To:** Institutional Animal Care and Use Commit,Service Account <[iacuc@louisville.edu](mailto:iacuc@louisville.edu)>

**Subject:** RE: IACUC 18265

Tegan,

No surgery has been scheduled and I will let me know once we plan to do.

Thanks,

Huang-Ge

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10-1-2020

To  
IACUC committee*Ref: Reporting Adverse Event to IACUC #19606*

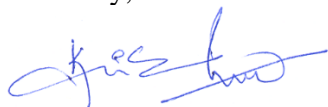
During experimental dextran sodium sulphate (DSS)-induced colitis in germ free (GF) mice, most of the mice (16 out of 18) either died or displayed morbid (forced to euthanize) at day 7 post DSS exposure.

We subjected GF mice with 2.5% DSS in drinking water for 7 days (9-22-2020 to 9-29-2020). We observed mice once in two days and noted the body weight. Mice were losing expected bodyweight. However, prior to changing back to regular water on day 7, we observed this adverse event. As per literature, GF mice that were subjected to 2% or 4% DSS in drinking water did not display this kind of severe phenotype (J Crohns Colitis 10 :1324-1335). Therefore, we selected lower DSS (2.5%), which is similar to our experiments in SPF mice.

The potential reason for this adverse event in GF mice as follows. It is possible that batch of DSS that was in this experiment may have different level of susceptibility. To avoid this adverse event, we will reduce the days of exposure from 7 days to 5 days as well as reduce DSS to 2% from 2.5%. We will perform pilot experiment with minimal animals (n=3) to determine whether 2% DSS treatment for 5 days would result in expected phenotype.

Please do not hesitate to contact me, if you any questions.

Sincerely,



(Venkatakrishna Rao JALA)

## Institutional Animal Care and Use Commit

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**From:** Emery,Doug  
**Sent:** Wednesday, September 30, 2020 2:15 PM  
**To:** Sherwood,Leslie C  
**Cc:** Institutional Animal Care and Use Commit; Liu,Yongqing; Dean,Douglas C.  
**Subject:** FW: Big mistake to euthanize your mice

Dr. Sherwood,

I needed to bring to your attention the email that we (Dr. Liu) received from Dr. Li. In the email below, Dr. Li states that he accidentally euthanized a cage of our mice. This is very disturbing to us because this is not an accident but a negligent act on Dr. Li's part by not following protocol and checking the cage card prior to euthanizing any animal to make sure that it is not only the correct animal(s), but his animal(s).

Furthermore, the animals that he negligently euthanized were our Zeb1 male mice from the Salk Institute and are extremely difficult to reproduce. We now have to contact Salk to determine if the animals are still available and if they would gift us more for our research. These animals are extremely important to Dr. Liu's research and a major factor in obtaining new funding.

We ask your assistance in a few manners. Firstly, I think it is very important to provide training for Dr. Li and anyone in his laboratory group on the proper method of euthanizing animals. This was a tremendously egregious, negligent act on his part. We hope that we are the only PI affected by this carelessness.

Secondly, if these animals are still available at Salk and they are willing to provide us additional breeders, we would like for the RRF to expedite the replacement animals' arrival in any manner possible, perhaps by allowing the animals to ship and to be quarantined while the health records are being readied for the import. This will help eliminate some of the delay in these animals' arrival, if available.

Thirdly, any costs associated with the potential replacement of these animals should be funded by Dr. Li. We would ask your assistance in mediating that funding, if necessary.

We appreciate any assistance you and the RRF may be able to provide in rectifying this major issue. If you need additional information or would like to discuss this further, please feel free to contact me, Dr. Liu, or Dr. Dean.

Thanks,

Doug



**Doug Emery**

Research Manager

School of Medicine - Brown Cancer Center

University of Louisville

[REDACTED] Louisville, KY 40202

**O:** 502-852-3748 | **F:** 502-852-4595 | **E:** [doug.emery@louisville.edu](mailto:doug.emery@louisville.edu)

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**From:** "Liu,Yongqing" <yongqing.liu@louisville.edu>

**Date:** Tuesday, September 29, 2020 at 3:12 PM

**To:** "Emery,Doug" <doug.emery@louisville.edu>

**Subject:** FW: Big mistake to euthanize your mice

**From:** Li,Qingsheng <qingsheng.li@louisville.edu>

**Sent:** Tuesday, September 29, 2020 3:00 PM

**To:** Liu,Yongqing <yongqing.liu@louisville.edu>

**Subject:** RE: Big mistake to euthanize your mice

Dear Dr. Liu,

My name is Qingsheng Li from the Department of Microbiology and Immunology. We have mice shared barrier \_\_\_\_\_ with your mice. I accidentally euthanize one cage of your mice (P14Thy1.1/1.2 ZEB1 F/F CD4cre, Dob, 4/30/19, 4 males) while I tried to reduce our cages in \_\_\_\_\_. I am so sorry for my mistake. I don't know you still have the same strain mice. We do have B6 background CD4cre mice, but may not be useful for you.

I tried to call 502-852-8669 and say "I am so sorry" to you, but I failed to find you.

Here is my personal phone number: \_\_\_\_\_

Please let me know what I can compensate for your lost mice.

Sincerely yours,

Qingsheng Li