

RELATED WEBSITES

IACUC website—for forms, policies, guidelines, links for Occupational Health & Animal Qualifications info, etc.: www.purdue.edu/animals

Occupational Health Info: <https://www.purdue.edu/research/regulatory-affairs/animal-research/occupational-health.php>

IACUC Newsletter

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE AND THE LABORATORY ANIMAL PROGRAM



DECEMBER 2023

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New Position Filled within the IACUC Office

Bethany Schoon has been hired as the Assistant IACUC Administrator within the IACUC office. Beginning December 1, a significant amount of my time will be devoted to the Purdue Excellence in Research Administration (PERA) IACUC Module. I will be working closely with Huron onboarding the IACUC module. This will eventually replace Coeus which is the software we currently use. I will still be in the IACUC office but my attention will focus on the IACUC software implementation for the next several months.

The Assistant IACUC Administrator position was created a few months ago to “back fill” some of my daily responsibilities to free up my time. I’m very pleased that we were able to hire Bethany into the position. Bethany has already been, and will continue to be, a huge asset to the IACUC office.

Effective immediately, please direct all IACUC related emails and phone calls (that you would normally send to me) to Bethany. Her contact info is: bbona-gur@purdue.edu, (765) 496-5340. Bethany and I will meet on a regular basis to assure there is no disruption related to IACUC issues.

Please let Bethany or I know if you have any questions or concerns. Thank you.

Lisa Snider
IACUC Administrator



Holiday Moratorium Schedule

- For the Winter Recess – The ordering deadline will be noon on Wednesday, December 13, 2023, for delivery dates up to December 20, 2023. The University is closed from December 22rd through January 1st. There will be no animal deliveries on campus from December 20, 2023 through January 4, 2024.
- This same schedule will be followed for Drug Distribution Center orders.
- Please plan accordingly.

Assistance Available for Creating and Formatting Search Strings

The IACUC office is offering assistance with creating or formatting search strings that will be listed in the Alternative Search tab in Coeus Lite. If you would like assistance with this, please contact Nancy Mantick, IACUC Protocol Analyst, at mantick@purdue.edu (email is the preferred mode of contact), and provide your keywords for your searches. Making sure your search strings are formatted properly before submitting your new protocol or renewal can help it move more smoothly through the IACUC approval process. Please contact Nancy **PRIOR TO** submitting your protocol application (or triennial renewal) for assistance with search strings.

New Online Form for Self-Reporting of Adverse Events and/or Non-Compliance

The IACUC Committee is pleased to introduce a new online form to report all adverse and non-compliance events. Principal investigators and lab personnel may now notify IACUC of issues by using the online Adverse Event Reporting Form. Completed forms must be sent to the IACUC email address: IACUC@purdue.edu. The link to the new form is: www.purdue.edu/research/oevprp/regulatory-affairs/animal-research/docs/Purdue%20IACUC%20Noncompliance%20-%20Adverse%20Event%20Reporting%20Form.pdf

As a reminder, adverse events are incidents that lead to unanticipated injury or illness, unrelieved pain or distress, or the death of an animal. Non-compliance events occur when an IACUC protocol, policy, guideline, SOP, or procedure is not followed.

Adverse events and non-compliance issues must be promptly reported to the IACUC office.

Revised Policy of ATP Testing of Hand-washed Equipment

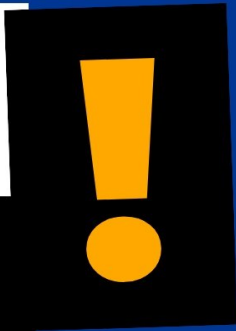
Revisions to the ATP Testing of Hand-washed Equipment Policy were approved during the November 15th IACUC meeting. For labs that can provide LAP with one year of data showing that their sanitation methods are effective, the frequency of testing may be reduced to semiannual testing (every 6 months). A minimum of 12 months of records must be provided to LAP for evaluation and approval to be exempt from monthly testing. In areas, specifically agricultural or aquatic housing, where 0-10 results may be unachievable, food surfaces (calf nursing bottles, nonporous food dishes) should be less than or equal to 100 RLU's. For housing equipment, a reduction of at least 25% is required. The link to the ATP Policy is: www.purdue.edu/research/oevprp/regulatory-affairs/animal-research/docs/policies/ATP%20testing%20of%20hand-washed%20equipment%20policy.pdf

Luminometers are available to check out from the LAP Drug Distribution Center, located in LILY 2-110. Please email Elisa Strange at the Drug Distribution Center DDCLAP@purdue.edu to schedule use. Swabs may also be purchased from the Drug Distribution Center by filling out the ATP Swab Requisition Form, found on the DDC Sharepoint drive or by emailing a request for the form to the DDCLAP@purdue.edu email. Training will be required for first time users of the LAP device.

2024 IACUC Meeting Dates

Meeting Date	Deadline for Protocol Submission
January 17	December 20
February 21	January 24
March 20	February 21
April 17	March 20
May 15	April 17
June 19	May 22
July 17	June 19
August 21	July 24
September 18	August 21
October 16	September 18
November 20	October 23
December 18	November 20

**WE
WANT
YOU**



TO TEST HANDWASHED EQUIPMENT

- BACTERIA GONE!**
- MICROBES GONE!**
- BIOHAZARD MATERIAL GONE!**

IACUC POLICY

Purpose: To validate the cleaning requirements of equipment involved in animal use and monitor the effectiveness of a cleaning program to ensure cleaning and disinfection of surfaces in close proximity to research animals.

**TESTING TO BE
DONE MONTHLY
AND RESULTS
RECORDED IN
LAB NOTES.**

**ATP SWABS CAN BE PURCHASED &
LUMINOMETER RENTAL
CAN BE DONE THROUGH THE LAP DDC**

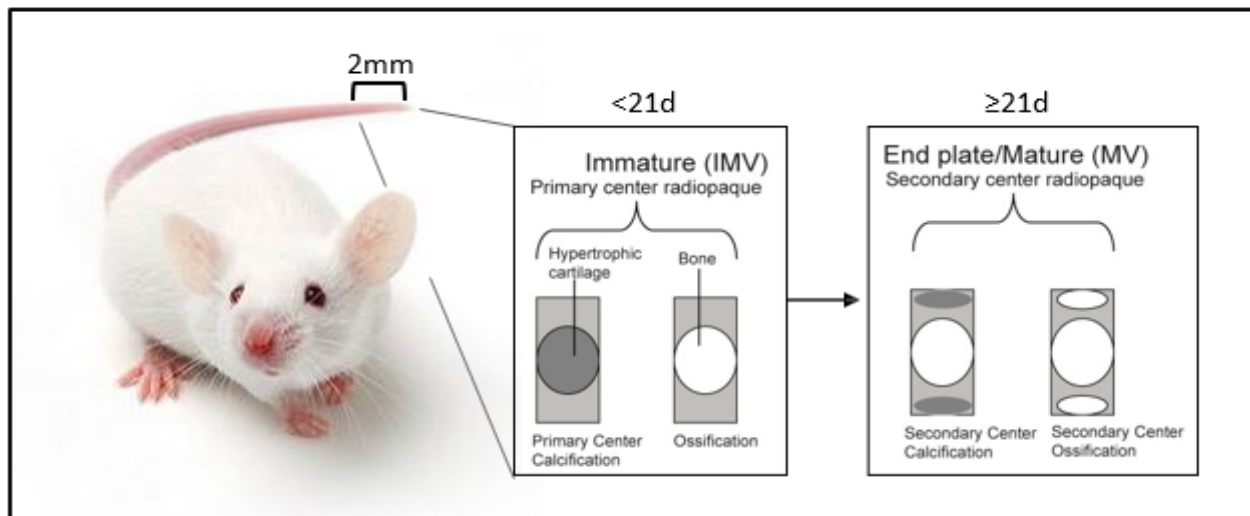
Lilly Hall 2-110
DDCLAP@Purdue.edu OR 765-496-1019

Mouse Tails: A refresher on the policy for tail biopsy genotyping and the science behind it

Policy brief: Tail biopsy should be limited to the smallest amount possible. Often, a biopsy of approximately 2 mm is sufficient. Anesthesia is required for mice ≥ 21 d unless there are IACUC-approved exceptions

Why is there a change at 21 days?

- At 21 days, many strains (including B6 and C3H) have fully matured and ossified vertebrae even at the most distal 2mm of the tail.¹



What are the welfare implications of biopsy after 21d?

- Mature vertebrae have periosteal and endocortical innervation, so cutting mature, ossified bone is thought to be painful.^{1,2}
- Mice >31 d show behavioral responses up to 1h or more post-biopsy

What are the effects on genotyping sample?

- DNA yield is higher in tail tip samples from preweaning animals. This possibly reflects increased cellularity and less mineralization.¹

Is there anything else I should know?

- Cutting mature vertebrae may be more likely to leave exposed bone post-tail biopsy, which may necessitate surgical amputation by LAP staff.

This is not a change to the current policy. Tail biopsy after 21d is still allowed with anesthesia unless withholding anesthesia is justified.

1. Hankenson FC, Garzel LM, Fischer DD, Nolan B, Hankenson KD. Evaluation of tail biopsy collection in laboratory mice (*Mus musculus*): vertebral ossification, DNA quantity, and acute behavioral responses. *J Am Assoc Lab Anim Sci.* 2008 Nov;47(6):10-8.
 2. Jones CP, Carver S, Kendall LV. Evaluation of common anesthetic and analgesic techniques for tail biopsy in mice. *J Am Assoc Lab Anim Sci.* 2012 Nov;51(6):808-14. PMID: 23294888; PMCID: PMC3508186.

Participants need to be familiar with their project/protocol and techniques required of their protocol, prior to attending class!

Spring 2024 Rodent Workshops!

I will be offering the following training workshops with a maximum of 9 participants in handling and injection sessions. Other techniques will be a maximum of 6 participants. (If you have any questions or special requests, please do not hesitate to contact me; 765-494-2521 or dowellc@purdue.edu)

These hands-on workshops are designed to introduce the participant to the basic techniques in the laboratory rat and mouse. **The Handling/Restraint workshop is a prerequisite for participation in all other workshops,** unless participant has had previous training and/or experience in this area. A minimum of 3 days' notice is requested for cancellation. **PLEASE be respectful, follow COVID-19 safety guidelines and cancel your appointment if you are unable to attend.**

Workshops are filled on a first-come, first-serve basis! Workshops are free to personnel tied to Purdue protocols, Purdue staff/faculty. You are encouraged to participate in workshops that are **directly related to techniques in your protocol.** *Participants must be familiar with their project/protocol and techniques required of their protocol prior to attending class!*

REGISTRATION:

- Location for the following workshops – Meet in Lilly Hall room 3-114.

Please visit, <https://www.purdue.edu/research/oevprp/regulatory-affairs/animal-research/lap/workshops-events.php> and select areas of **training required per your protocol** and register through the "Sign Up" link. (If the following times do not fit your schedule or training needs, I would be happy to set up training for most any species on an individual basis.)

1. *Basics of Rodent Handling, Restraint, and Normal Behavior. (Rat & Mouse)*

- 1/12/24 - Friday 8:30 – 10:30am
- 1/18/24 – Thursday 8:30 – 10:30am
- 1/31/24 - Wednesday 1:00 – 3:00pm
- 2/06/24 – Tuesday 8:30 – 10:30am
- 2/13/24 – Tuesday 1:00 – 3:00pm
- 2/19/24 – Monday 1:00 – 3:00pm
- 3/05/24 – Wednesday 8:30 – 10:30am
- 3/21/24 – Thursday 1:00 – 3:00pm
- 4/06/24 – Friday 1:00 – 3:00pm
- 4/15/24 – Monday 1:00 – 3:00pm
- 4/25/24 – Thursday 8:30 – 10:30am

2. *Injections in the rat and mouse; ID, IM, SC, IP*

- 1/18/24 – Thursday 1:00 – 3:00pm

Participants need to be familiar with their project/protocol and techniques required of their protocol, prior to attending class!

- 1/26/24 – Friday 8:30 – 10:30am
- 2/05/24 – Monday 1:00 – 3:00pm
- 2/20/24 – Tuesday 8:30 – 10:30am
- 3/06/24 – Wednesday 1:00 – 3:00pm
- 3/21/24 – Thursday 8:30 – 10:30am
- 4/01/24 – Monday 1:00 – 3:00pm
- 4-16-24 – Tuesday 1:00 – 3:00pm

3. *Blood Collection in the Rat and Mouse*

- 1/22/24 – Monday 1:00 – 3:00pm
- 2/01/24 – Thursday 8:30 – 10:30am
- 2/14/24 – Wednesday 8:30 – 10:30am
- 2/27/24 – Tuesday 1:00 – 3:00pm
- 3/22/24 – Friday 8:30 – 10:30am
- 4/08/24 – Monday 1:00 – 3:00pm

4. *Tail Vein Injection in the Lab. Rat and Mouse*

- 1/31/24 – Wednesday 8:30 – 10:30am
- 2/12/24 – Monday 1:00 – 3:00pm
- 2/29/24 – Thursday 8:30 – 10:30am
- 3/05/24 – Tuesday 1:00 – 3:00pm
- 3/29/24 – Friday 8:30 – 10:30am
- 4/17/24 – Wednesday 1:00 – 3:00pm

5. *Rodent Oral Gavage.*

- 1/26/24 – Friday 1:00 – 3:00pm
- 2/06/24 – Tuesday 1:00 – 3:00pm
- 2/26/24 – Monday 1:00 – 3:00pm
- 3/20/24 – Wednesday 8:30 – 10:30am

6. *Isoflurane Gas Anesthesia*

- 1/17/24 – Wednesday 8:30 – 10:30am
- 2/01/24 – Thursday 1:00 – 3:00pm
- 2/13/24 – Tuesday 8:30 – 10:30am
- 3/04/24 – Monday 1:00 – 3:00pm
- 3/29/24 – Friday 1:00 – 3:00pm
- 4/16/24 – Tuesday 8:30 – 10:30am

7. *Wound closure and Suturing Basics*

- 2/07/24 – Wednesday 8:30 – 10:30am
- 2/20/24 – Tuesday 1:00 – 3:00pm
- 3/07/24 – Thursday 1:00 – 3:00pm
- 4/09/24 – Tuesday 8:30 – 10:30am

Participants need to be familiar with their project/protocol and techniques required of their protocol, prior to attending class!

8. *Orbital Sinus Injection – (As an alternative to tail vein injection)*

- 2/15/24 – Thursday 8:30 – 10:00am
- 3/05/24 – Tuesday 8:30 – 10:00am
- 4/10/24 – Wednesday 1:00 – 2:30pm

9. *Aseptic Technique / Surgical Preparation*

- 2/07/24 – Wednesday 1:00 – 3:00pm
- 2/21/24 – Wednesday 1:00 – 3:00pm
- 3/08/24 – Friday 8:30 – 10:30am
- 4/09/24 – Tuesday 1:00 – 3:00pm

10. *Euthanasia / Basic Necropsy / Organ Identification / Cardiac Blood Collection*

- 1/25/24 - Thursday 8:30 – 10:30am
- 2/08/24 – Thursday 1:00 – 3:00pm
- 2/21/24 – Wednesday 8:30 – 10:30am
- 3/08/24 – Friday 1:00 – 3:00pm
- 3/19/24 – Tuesday 8:30 – 10:30am
- 4/05/24 – Friday 8:30 – 10:30am

11. *Mouse Breeding / Colony Management*

- 2/14/24 – Wednesday 1:00 – 2:30pm
- 3/07/24 – Thursday 8:30 – 10:00am
- 4/02/24 – Tuesday 1:00 – 2:30pm

12. *Working with Surgical Loups and Dissecting Microscopes.*

- 4/17/24 – Wednesday 9:00 – 10:30am

13. *Combined Techniques * (Prior experience/training in majority of courses is required)*

- This workshop is designed to incorporate all that you have learned regarding rodent handling, injections, blood collection, anesthesia, surgical prep, wound closure and euthanasia. ***You should come prepared to practice specific techniques that you will be using in your research.***
- 4/22/24 – Monday 1:00 – 3:00pm

Participants need to be familiar with their project/protocol and techniques required of their protocol, prior to attending class!

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE STAFF**Jay Burgess**

IACUC Chairperson

burgesjr@purdue.edu

Kathy Anderson

IACUC Associate Chairperson

kianders@purdue.edu

Lisa Snider

IACUC Administrator

ldsnider@purdue.edu

Bethany Schoon

IACUC Assistant Administrator

bbonagur@purdue.edu

Deana Galema

IACUC Senior Administrative Assistant

dgalema@purdue.edu

Heather Boudreau

IACUC Occupational Health Specialist

hrboudre@purdue.edu

Nancy Mantick

IACUC Protocol Analyst

mantick@purdue.edu

LABORATORY ANIMAL PROGRAM STAFF**Deb Hickman**

Associate VP for Animal Resources

hickmand@purdue.edu

Amanda Darbyshire

Assistant Director of Clinical Medicine

adarbysh@purdue.edu

Kellie Taylor-McGrady

Clinical Veterinarian

taylorkl@purdue.edu

Megan Ellis

Clinical Veterinarian

ellis68@purdue.edu

Sylvia Schlegel

Asst. Director, Centrally-Managed Animal Facilities

sschlege@purdue.edu

Jamie Wolf

Operations Manager

wolf4@purdue.edu

Carol Dowell

Training Coordinator

dowellc@purdue.edu

Julie Brown

Veterinary Technician

brownjul@purdue.edu

Katy Harringer

Veterinary Assistant

klharrin@purdue.edu

Rebekah Hudson

Veterinary Technician

hudsonrj@purdue.edu

Ava Crees

Veterinary Assistant

acrees@purdue.edu

Elisa Strange

Executive Administrative Assistant

emstrang@purdue.edu

