***IACUC Protocol No.***

***IACUC Rep.***

***Approval Date***

***(Office Use Only)***

# ANIMAL USE PROTOCOL FOR TEACHING LABORATORY EXERCISE

**University of Puget Sound**

**Institutional Animal Care and Use Committee (IACUC)**

**This protocol is required for use of any live vertebrate animals or cephalopods in the context of a teaching laboratory and/or field projects associated with a general laboratory exercise.**

**Submission:**

* **Protocols must be word-processed, not hand-written, and include digital versions of all investigators’ signatures.**
* **A complete protocol includes this filled out form (with digital signatures), which includes a narrative and reference list.**
* **Submit the complete protocol as a single PDF or Microsoft Word document by email to Erin Colbert-White, chair of the IACUC, at** **ecolbertwhite@pugetsound.edu****. Incomplete protocols or protocols in any other format will be returned without review.**
* **The review process can take between 10 business days and one month.**

**Laboratory Exercise:**

## Department and Class Number:

**Date of Submission: (Protocol must be approved prior to start of semester)**

## Instructor (Name and Signature):

## Instructor signature indicates that student(s) will received training for proper and safe use of animals in this project.

**Contact Information:**

**Signing this form certifies that all personnel that will be involved in this course project will have completed a *Medical History and Risk Assessment Questionnaire for Persons Handling or Working with Live Vertebrate Animals* by the time they do the experiment.**

x

**A. ANIMALS**

**A1. List the NUMBER, TYPE(S), and SOURCE of all live vertebrate animals or cephalopods used for this project each year.**

A2. List the location(s) (building, room number) where the animals will be housed (or the site of field work).

**A3. List who will be responsible for animal care; identify any special animal care beyond routine housing and feeding.**

**B. PROJECT**

**PLEASE CHECK *ONE* OF THE FOLLOWING:**

**Project involves manipulation of diet and/or housing but no invasive procedures (including injection or venipuncture).**

 **Project involves no significant pain or distress to animals greater than that from routine injection or venipuncture or caging.**

 **Project involves manipulations that may result in pain or distress; however, project employs an appropriate anesthesia, analgesic, or tranquilizer to avoid significant pain or distress during procedures.**

 **Project involves significant pain or distress without administration of appropriate anesthetic, analgesic, or tranquilizer.**

 **Project does not involve any of the above.**

**B1. Is stress (including stress due to diet or housing manipulation) or prolonged restraint a necessary component of the project?**

**❑** No

**❑** Yes

If **“YES”**, describe the nature of the manipulation or restraint, the risk of injury to the animal, and any acclimation or training used.

B2. Will animals be exposed to hazardous materials requiring special care and/or disposal?

**❑** No

**❑** Yes

If **“YES”**, describe the care and/or disposal methods.

**B3. Will you perform surgery?** [Includes minor surgery such as superficial wounds used for catheter placement and needle aspirations as well as major surgery involving penetration of a body cavity.]

 **❑** No

 **❑** YesIf **"YES"**, address the following:

Identify and describe the surgical procedure(s) to be performed. Include preoperative procedures *[e.g., fasting, analgesic loading]*, and monitoring and supportive care during surgery. Include the aseptic methods to be used.

Identify the individual(s) that will perform surgery and their qualifications, training, and/or experience.

Identify the location where surgery will be performed *[building(s) and room(s)].*

If survival surgery, describe postoperative care that will be provided and frequency of observation. Identify the responsible individual(s) *[names]* and location(s) where care will be provided *[building(s) and room(s)].* Include detection and management of postoperative complications during work hours, after hours, and on weekends and holidays.

If non-survival surgery, describe how euthanasia will be provided and how death will be determined.

Are paralytic agents used during surgery? If yes, please describe how ventilation will be maintained and how pain will be assessed.

Will more than one survival surgery be performed on an animal while on this study? If yes, please justify.

**B4. Literature Consulted While Developing the Laboratory Exercise**

Please provide brief responses to the following:

* Databases searched when developing the laboratory exercise
* Date the search was performed
* Years of citations covered by database searches
* Keywords and/or search strategy used when searching a database

**B5. Experimental Design and Rationale for Animal Use**

Briefly explain the objectives of the study and the experimental design, specifying all animal procedures. The description of the procedures should allow the IACUC to understand the experimental course of an animal from its entry into the study to the endpoint of the project. A flowchart may be an effective presentation of the planned procedure.

Explain your rationale for animal use rather than alternatives. Justify the appropriateness of the species selected and the number of animals to be used (citing literature, if available). The number of animals should be the minimum number required to obtain statistically valid results. Alternatives include methods that:

* Refine existing tests by minimizing animal distress,
* Reduce the number of animals necessary for an experiment, or
* Replace whole-animal use with *in vitro* or other tests.

If the project is a field study, describe how the animals will be observed, any interactions with the animals, whether the animals will be disturbed or affected, and any special procedures anticipated. Indicate if federal, state, and/or local permits are required and whether they have been obtained.

##### B6. Disposition of Animals at the End of the Exercise

Please describe your plan for the disposition of all animals in your laboratory exercise. If more than one method of disposition applies, please check all applicable boxes and include in your description which method will be used for which animals and why. The IACUC encourages PIs to consider whether adoption is a viable option for disposition.

**Animals used in this laboratory exercise will be (check all that apply):**

Euthanized

Adopted \_\_\_\_\_

Returned to departmental animal collection

Transfer to departmental animal collection

Other \_\_\_\_\_

* If “Euthanized” is checked, include in your description: a) the proposed method of euthanasia, and b) the method of carcass disposal. If a chemical agent is used, specify the dosage range and route of administration. If the method of euthanasia is **not** consistent with the AVMA 2013 Guidelines for the Euthanasia of Animals, provide scientific justification as to why such a method must be used.
* If “Adopted” is checked, include in your description a) an acknowledgement of your agreement to abide by the IACUC Animal Adoption Policy, including the requirement to schedule a consultation with the IACUC consulting veterinarian prior to initiating adoptions, and b) your disposition plan for animals that are not successfully adopted. Any animals that are eligible for adoption but are not adopted must have an approved disposition, whether euthanasia, transfer to departmental animal collection, or other.
* If “Returned to departmental animal collection” is checked, this implies the animals were already designated part of the departmental animal collection. Please confirm this and include in your description the departmental collection to which the animals belong (e.g., Biology, Psychology).
* If “Transfer to departmental animal collection” is checked, the chair (or qualified designee) of the department to which the animal will be transferred must provide an electronic signature which should be included in your description along with the departmental collection to which the animals belong (e.g., Biology, Psychology).
* If “Other” is checked, briefly describe the planned fate of all animals used for the laboratory exercise. **If an alternative disposition of the animals is planned, you must attach any necessary approval documentation from the appropriate agencies.**

**C. RISK**

**For field studies**, describe any relevant zoonotic diseases and/or safety issues applicable in the study area.

**D. MANDATORY ANIMAL HEALTH REPORTING**

Daily monitoring must occur for all animals purchased by the University and housed on campus (i.e., not pets or wild animals) for the purposes of this laboratory exercise. These records must be submitted to the IACUC at the end of the term. Please refer to the instructions and sample system provided on the IACUC’s website for details, and contact the IACUC chair with any questions.