

Widener University - Institutional Animal Care and Use Committee

Animal Care Standard Operating Procedures

1. Name and Department of Applicant (faculty member):

Students: Kevin O'Sullivan, Jen Wilwert, Saji Anthony

2. Name and Approval Number of IACUC Animal Care Form

3. Identify the species of animals covered by this SOP.

Micropogonias undulates (spot), *Leiostomus xanthurus* (Atlantic Croaker).

4. If the animals are to be used in a course project, please indicate:

Course Name and Number	Instructor	Estimated Enrollment
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Biology 401, fall 2003	Itzick Vatnick and Bruce Grant	16
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5. How are animals obtained?

The animals are currently in room 503 of Kirkbride. Dr. David Coughlin obtained them.

6. Briefly describe the usage of the animals.

The animals will be swum in the flume w/ electrodes implanted in their white muscle in order to find the flow speed at which white muscle is recruited. Once the speed at which white muscle is recruited is found, the red muscle of the fish will be excised.

7. **Animal Care Standard Operating Procedures**

Location and Environmental Conditions of Animal Enclosures

The animals are currently and will remain housed in an aquarium in Kirk503.

Describe Enclosures (cages, pens, crates, tanks)

The animals are housed in a large aquarium. They will be put into Dr. David Coughlin's flume one at a time during swimming trials.

Describe Feeding and Water Regime. (How much? How often?)

Students will not conduct any feedings or water regime activities. Dr. David Coughlin will do them.

Describe sanitation practices. (Any daily or periodic procedures such as water changes, bedding changes, cage washing)

Students will not conduct sanitation processes. Dr. David Coughlin will do them.

How many animals are placed in each enclosure? What size are the animals?

One fish will be in the flume at any one time during swimming trials. The animals are all less than eight inches, with the smallest being about four inches.

8. What are the clinical signs or circumstances that would indicate animal stress or disease?
If the animal is in distress it will not be able to swim in the flume. If this occurs the flume speed will be turned down or the animal will be removed from the flume and placed into its aquarium.
9. What are the procedures for handling and/or euthanizing sick animals?
Sick animals will be quarantined in a "hospital Tank." We defer to Dr. David Coughlin on how any sick animals will be euthanized.
10. What is the fate of animals that survive the experimental or instructional use?
The animals used in the flume study will eventually be anesthetized in order to extract their red muscle to be used in determining myoglobin concentration. Dr. David Coughlin will perform all anesthetizing.
11. If known, list personnel who will care for these animals.

Name David Coughlin Widener Biology Professor ext. 4025

12. I hereby certify that I am responsible for the care of the animals described in this SOP. I will properly train all personnel in animal care. The care of animals will abide by the National Research Council guidelines published in the *Guide for the Care and Use of Laboratory Animals*.

Name _____

Title _____

Signature _____

Date _____

NOTE:

Once approved, this form will be kept on file with the Associate Dean of Science. An approved Animal Care SOP is required before animals are obtained.