

FOR IACUC USE ONLY
IACUC PROTOCOL # _____
DATE ACCEPTED: _____

ST. JOHN FISHER COLLEGE INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

**APPLICATION FOR APPROVAL OF THE USE OF VERTEBRATE ANIMALS
IN RESEARCH OR TEACHING**

Initial Submission Renewal or Modification

Project title: _____

Funding agency: _____

Project dates: _____ to _____

Principal investigator: _____ **Dept.:** _____ **Extension:** _____

Home phone: _____ **Office phone:** _____

Emergency contact: _____ **Phone:** _____

CITI Training completion date _____ **CITI Training ID#** _____

Note: The IACUC requires applications for protocol approval to be received **two weeks** before the expected beginning of the experiment. The IACUC reserves the right to request additional information and may withhold approval from protocols that do not meet criteria for humane use of animals. For information on applicable standards of animal welfare, please consult the *Guide for the Care and Use of Laboratory Animals* <http://www.nap.edu/readingroom/books/labrats/> and the *Animal Welfare Act* <http://www.nal.usda.gov/awic/legislat/regspage.htm>

I. EXPERIMENTAL PROTOCOL NARRATIVE

Amendments with minor changes: You need submit only a description and scientific justification of the changes you propose to make in the already approved protocol. Fill out only those sections in the remainder of this form that pertain to the changes in your protocol.

Renewals and new protocols: Begin with a brief description of the background and significance of the study. What question is your study designed to answer? Please provide a specific timeline for all procedures including the endpoint of the study for each animal and what will happen to the animals after the study is completed. All surgeries and experimental procedure categories checked in section V must be included in the timeline. You may attach additional pages to this form if necessary. Provide citations for key papers in the relevant literature. *Please also submit any PDFs that address any significant methodology to be used in the experiment.*

II. ANIMALS

Species: _____ **Source:** _____ **Strain, subspecies or breed:** _____

Numbers: _____ **Sex:** _____ **Ages:** _____

Location where animals will be housed for 24 hours or more: _____

Location where manipulation will be conducted: _____

- 1) If housing is not in an approved Animal Facility, or ambient conditions depart from *Guide* standards, explain:
- 2) Why is it necessary to use laboratory animals for your study?
- 3) Why is the animal species you have chosen most appropriate for your study?
- 4) Justify the numbers of animals you plan to use in this study:
- 5) Have any animals in this study been used in a previous experiment? Yes ⑥ No ⑥
If so, justify the second use of animals in the proposed study:
- 6) How many animals in your study will be subjected to each of the following conditions (please fill in all columns):

No pain or distress	Alleviated pain or distress	Unalleviated pain or distress

If any animals are subjected to unalleviated pain or distress, explain and provide scientific justification:

- 7) In the event that unplanned euthanasia is necessary during your protocol, how would it be carried out? (agent, method, dose, route of administration, person administering, criteria used to decide upon euthanasia). Methods not approved by the AVMA, such as cervical dislocation or decapitation without anesthesia [*JAVMA* 202:229-249, 1993], are ordinarily not acceptable)

III. LITERATURE SEARCH

Date of search: _____

Database	Year range of literature searched	Keywords

Additional sources (other published sources, persons) consulted:

If your study replicates other experiments, describe the necessity of repeating the work:

IV. SURGERY

- 1) Will surgical procedure(s) be used in your study (check one)? Yes ⑥ No ⑥
If no, skip to section V. If yes, please fill in the following:
 1. 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 utilized.
 2. Who will perform surgery and what are their qualifications and/or experience?
 3. Where will surgery be performed and postoperative care provided (building and rooms)?

4. If survival surgery, describe postoperative care required, frequency of observation, use of antibiotics or analgesics, administration of fluids, removal of skin sutures or staples, and identify the responsible individual(s). Include detection and management of postoperative complications during work hours, after hours, weekends and holidays.
5. If non-survival surgery, describe how humane euthanasia is enacted and how death is determined.
6. Are paralytic agents used during surgery? If yes, please describe how ventilation will be maintained and how pain will be assessed.
7. Has major survival surgery been performed on any animal prior to being placed on this study? [*Major survival surgery penetrates and exposes a body cavity or produces substantial impairment of physical or physiologic functions (such as laparotomy, thoracotomy, crainotomy, joint replacement, or limb amputation).*]
If yes, please explain:
8. Will more than one major survival surgery be performed on an animal while on this study?
If yes, please justify:

V. ADDITIONAL ANIMAL USE PROCEDURES

Please check "Y" or "N" for each item. If an item is checked "Y", provide a detailed description or justification for that numbered item in section VI which follows (use additional pages if necessary). Please use the specifics listed in parentheses as a guideline.

- | | Y | N | |
|-------|---|---|--|
| 1. a. | Ⓒ | Ⓒ | Field work (location; local, state, and/or federal agencies authorizing work, dates of authorization). If animals in the wild will be used, describe how they will be observed, any interactions with the animals, whether the animals will be disturbed or affected, and any special procedures anticipated. Indicate if Federal permits are required and whether they have been obtained. |
| b. | Ⓒ | Ⓒ | Live-capture (type of trap or net; time(s) of day and year; frequency and method of checking traps or nets; whether food, water and/or bedding will be provided in traps; frequency of capturing target and nontarget animals; impact on dependent offspring; precautions to protect animals from extreme heat, cold or rain; anticipated rate of injury; method of euthanizing injured animals) |
| c. | Ⓒ | Ⓒ | Darting with pharmacologic agent (type of darting equipment used; agent, dose, route; season and time of day; time from darting to capture; monitoring after darting; anticipated complications; anticipated rate of injury; method of euthanizing injured animals) |
| d. | Ⓒ | Ⓒ | Kill-trapping or shooting (type of trap or firearm/ammunition; season and time of day; frequency of checking traps; anticipated mortality and escape rates; precautions to avoid injuring nontarget animals; method of euthanizing injured animals; justification if animals with dependent offspring will be collected) |
| e. | Ⓒ | Ⓒ | Animal restraint/handling (physical/chemical methods; duration; precautions to avoid injury or stress) |
| f. | Ⓒ | Ⓒ | Animal marking (method; potential adverse effects on behavior, locomotion or survival; removal of marks; for toe-clipping, explain why other methods not suitable, specify maximum number of toes clipped per animal; for bands and collars, specify ages and precautions against bands and collars growing too tight as animal grows) |
| g. | Ⓒ | Ⓒ | Radiotelemetry (method of attachment; ratio of radiotelemeter :animals's body weight; potential adverse effects on behavior, locomotion, or survival; removal; if surgically implanted, complete Section IV: Surgery) |
| h. | Ⓒ | Ⓒ | Recapture (maximum number of times an individual may be recaptured; intervals between captures) |
| i. | Ⓒ | Ⓒ | Housing captive wild animals off-campus (name and location of site; size, design, construction materials of enclosures; number of animals per enclosure; protection from environmental extremes; animal husbandry procedures (diet, bedding, water, frequency and method of cleaning); name(s) of individual(s) responsible for animal care; how often animals monitored; name, title and phone number of site manager; whether approval has been granted for use of this site) |
| j. | Ⓒ | Ⓒ | Release of animals after prolonged captivity (site of release; how long after capture; rationale for release; anticipated adverse effects of prior captivity on behavior, survival, and social status and mitigation of these effects; potential adverse effects on local population (e.g. disease transmission), and mitigation of these effects) |

- k. ⑥ ⑥ **Health precautions for personnel** (health risks (e.g., physical injury, arthropod-borne or zoonotic diseases); precautions to minimize risks)
- 2. ⑥ ⑥ **Euthanize and Harvest Tissue** (agent, method, criteria used to decide upon euthanasia, timepoint in study when euthanized, scientific justification for methods not approved by the AVMA, such as cervical dislocation or decapitation without anesthesia [*JAVMA* 202:229-249, 1993])
- 3. ⑥ ⑥ **Immunization/Antibody Production** (include antigen, adjuvant use, dose per site (mg/kg), no. of sites, route of immunization, volume per site, no. and frequency of boosters, method of obtaining blood, sampling site, volume and frequency)
- 4. ⑥ ⑥ **Physiologic Measurement** (provide detailed descriptions)
- 5. ⑥ ⑥ **Dietary Manipulations** (food or water restriction, special diets, provide details on parameters, monitoring, and justify)
- 6. ⑥ ⑥ **Pharmacology/Toxicology** (materials used, dose, route of administration, frequency, duration, endpoint)
- 7. ⑥ ⑥ **Behavioral Studies** (stimuli, restraint, scientific justification for using noxious stimuli)
- 8. ⑥ ⑥ **Trauma** (provide a detailed description; not normally approved at St. John Fisher College)
- 9. ⑥ ⑥ **Oncology/Tumor Transplantation** (provide information on origin, passage, adventitious pathogen testing, [MAP], biohazard potential, endpoint)
- 10. ⑥ ⑥ **Blood, urine, or tissue sampling** (tissue/substance, amount, frequency, duration)
- 11. ⑥ ⑥ **Administration of drugs/reagents/cells/etc.** (agent, dose, route of administration, frequency, duration, anticipated side effects, monitoring protocol)
- 12. ⑥ ⑥ **Breeding Colony** (justify need)
- 13. ⑥ ⑥ **Biohazardous/Infectious Agents** (describe the nature of hazard and personal safety precautions; not normally approved at St. John Fisher College College)
- 14. ⑥ ⑥ **Chronic or Prolonged Restraint** (provide justification for restraint, a description of the device and duration of restraint)
- 15. ⑥ ⑥ **Anesthesia for purposes other than surgery** (agent, dose, route of administration, monitoring protocol, scavenging of waste gases)
- 16. ⑥ ⑥ **Potentially hazardous agent administration** (list radioactive, chemical, and biological agent(s), dose, effects on animals, danger to humans, monitoring, precautions to protect personnel, special containment and disposal requirements)
- 17. ⑥ ⑥ **Use, creation, or breeding of genetically modified animals or use of recombinant DNA** (list known side effects and any special care needed)
- 18. ⑥ ⑥ **Death as an Endpoint** (provide justification why alternatives cannot be used. These types of studies are discouraged)
- 18. ⑥ ⑥ **Other**

VI. ANIMAL USE PROCEDURES: DETAILS AND JUSTIFICATION

Use this page to describe the animal use procedures for any item checked "Y" on the previous page. Add copies of this page if necessary.

Item No. | Description of Procedures, etc.

VII. PERSONNEL EXPERIENCE AND TRAINING

Please list each person who will be involved in this study and provide details of their training.

Name	Video review date	Responsibilities	Training		
			Technique	Trainer and trainer's qualifications	Date

How will people be trained in your research techniques?

Technique	Please check applicable boxes		
	Euthanized animal	Live animal	Model animal

