

**ANIMAL USE PROTOCOL APPLICATION**

University of Texas at Arlington

Institutional Animal Care and Use Committee

(Please type).

**1. Principal Investigator/Project Director**

Name: \_\_\_\_\_ Department: \_\_\_\_\_  
Address: \_\_\_\_\_ Office Telephone: \_\_\_\_\_

**2. Additional collaborators:**

Name: \_\_\_\_\_ Department: \_\_\_\_\_  
Name: \_\_\_\_\_ Department: \_\_\_\_\_

**3. Project title or course name/number:**

**4. Funding Source:** \_\_\_\_\_ Grant # \_\_\_\_\_ Account # \_\_\_\_\_

**5. Peer Review:** \_\_\_\_\_ Complete \_\_\_\_\_ Pending \_\_\_\_\_

**6. Animal locations:** Housing: \_\_\_\_\_ Laboratory \_\_\_\_\_  
Overnight \_\_\_\_\_ Day use only \_\_\_\_\_ Overnight \_\_\_\_\_ Day use only \_\_\_\_\_  
Zoo: \_\_\_\_\_  
Field: \_\_\_\_\_

**Principal Investigator assurances.** (Signify by initialing each box)

- a. I have a working knowledge of the PHS “Guide for the Care and Use of Laboratory Animals” and the USDA “Title 9 Animal Welfare Act” and its revisions.....
- b. The proposed work does not unnecessarily duplicate previous experiments, based upon the following type of computer literature search: .....
- c. All personnel involved in this project have been trained in the procedure to be used. A letter documenting this training has been sent to the IACUC and Vivarium Director.....
- d. I and all personnel on the project have read any pertinent safety information, IACUC requirements, and security procedures (See Vivarium Director).....
- e. I shall be responsible for maintaining records of all animals used and the procedures carried out .....
- f. Any discomfort, distress or pain that may be associated with this research will be held to the absolute minimum.....
- g. Alternatives to any procedures that may cause pain or discomfort have been considered.....
- h. I will strictly adhere to all DEA regulations involving receiving, storage, use, documentation and disposal of all controlled substances utilized in my animal care program. ....

Narrative:

[State: (i) sources consulted, e.g., Biological Abstracts, Index medicus, Medline, the Current Research Information Service (CRIS), Animal Welfare Information Center (AWIC); (ii) the date of the search; (iii) years covered by search and (iv) the key words and/or search strategy used.]

Note: Items 8-12 on following pages should be answered for *each species* of animal to be used. If several species are involved, please duplicate the pages as necessary.

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If yes, indicate the requirements below, such as caging, bedding, type of water and dietary requirements. If no, animals are to be maintained according to the standard operating procedure of the animal facility.

Other special instructions for animal care staff:

12. Instructions for treatment and disposition of animals (check ALL applicable boxes):

<u>Illness</u>	<u>Death</u>	<u>Pest Control</u>
Call Investigator	Call Investigator	None
Treat	Necropsy	Veterinarian's Option
Terminate	Bag for Disposal or Prepare Museum Specimen	Pyrethrin

13. **Wild or exotic species**      Yes      No      Permits?      Yes      No

14. **Invasive procedures** (other than blood collection, catheterization, intubations, etc.)?.....Yes      No

a. If yes, will the procedure be done under anesthesia?.....Yes      No

b. If yes, describe the anesthesia to be used including dose and route of administration.

If no, explain in detail why anesthesia is not used:

c. Person(s) responsible for post-anesthesia recovery?

15. **Restraint** (Chairs, slings, tethers, stanchions, metabolism cages or other devices).....Yes      No

If yes, answer a-e:

- a. Method:
- b. Duration:
- c. Frequency:
- d. Frequency of observation during restraint:
- e. Person responsible for observation:

16. **Surgery:**.....Survival      Multiple      Terminal      None

- a. Location (building/room) of surgical suite:
- b. Surgical procedure(s):  
description:

c. Anesthetics, analgesics, or tranquilizers used.....Yes      No

Drug	Dose (mg/kg)	Route	Times/Day	#Hours/Day

d. Describe the post-operative care (survival procedures only):

- e. Where are the animals held post-operatively?
- f. Person responsible for postoperative observation:

g. Neuromuscular blocking agents: .....Yes      No

Drug	Dose (mg/kg)	Route	Times/Day	#Hours/Day

h. How and by whom will the animal be monitored?

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i. Under what circumstances will incremental doses of anesthetics-analgesics be administered?

j. If neuromuscular blocking agents are being used without general anesthesia, provide justification:

17. **Intervention** for pain or distress.... analgesia    euthanasia    other

What interventions are withheld?.... analgesia    euthanasia    other

Circumstances under which interventions are to be used:    as recommended by Vet.    Other (describe):

Circumstances under which interventions are to be withheld (Explain why intervention is inappropriate):

18. **Disposition of animals** (check all that apply):    euthanized    other    release to former habitat  
(Explain below)

a. Person(s) performing the euthanasia:

b. Describe method(s) (for drugs, give name, route and dose):

c. Death assured by:

19. **Hazards to personnel** (if applicable):

Radioisotope

Carcinogen

Biohazard

Other

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20. **Personnel**

Name	Position
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As Principal Investigator, I am aware that I have the ultimate responsibility, on a day-to-day basis, for the proper care and treatment of the laboratory animals. I agree to adhere to all federal, state and local laws and regulations governing the use of animals in teaching and research. I further assure the University of Texas at Arlington Animal Care and Use Committee (Committee) that the minimal number of animals will be used for the project and that every possible step will be taken to minimize stress or pain to the animals. I have carefully considered and concluded that no reasonable alternatives to the use of animals could be applied to this project, and that this project is not an unnecessary duplication of any previously published work.

I will submit appropriate annual review forms for this project, and obtain formal approval from the Committee prior to implementation of any changes in this protocol.

\_\_\_\_\_  
Principal Investigator/Course Director

\_\_\_\_\_  
Date

The University of Texas at Arlington Animal Care Facility can satisfy the animal housing and maintenance requirements of this protocol. Where used, the type and amount of analgesic, anesthetic, or tranquilizing drugs above are appropriate by current professional standards, for relief pain an/or distress. The methods of euthanasia are compatible with the recommendations of the AVMA panel on euthanasia (*JAVMA*, 218 (5), March 1, 2001.)

\_\_\_\_\_  
Egeenee Q. Daniels, DVM  
Director, Laboratory Animal Medicine  
and Animal Care Facilities

\_\_\_\_\_  
Date

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Veterinarian Approval  
COMMITTEE ACTION:

University of Texas at Arlington  
Institutional Animal Care and Use Committee

**1. Principal Investigator/Project Director:**

Name:

Department:

Phone:

E-mail:

**2. Project title or course name/number:**

**3. Protocol number assignment:**

The project conforms to the PHS policy on the protection of animals and the activity is approved.

Under special conditions outlined by the University of Texas of Arlington Animal Care and Use Committee and the Principal Investigator (see attachment), the project conforms to the PHS policy on the protection of animals and the activity is approved.

The project does not conform to the PHS policy on the protection of animals and the activity is disapproved (see attachment).

\_\_\_\_\_  
Chairperson, Institutional Animal Care and Use Committee  
University of Texas at Arlington

\_\_\_\_\_  
Date

**USDA classification of animal discomfort, distress, and pain level**

For the purposes of protocol review, the USDA has established four categories of research based upon a summation of the associated discomfort, distress and/or pain. Each protocol application must include assignment of a USDA classification to each unique experiment or instructional activity.

**1. Studies or experiments on live, vertebrate animals causing little or no pain or distress.**

These include housing and restraining animals for observation or examination; tattooing, blood sampling, injection of nontoxic material; standard approval methods of euthanasia that induce rapid unconsciousness; short periods (few hours) of food and water deprivation and single group behavioral observations. Studies on anesthetized animals that do not regain consciousness are included in this category; this includes acute, non-survival experiments (no survival surgery in Level 1 classification).

**2. Studies or experiments involving some pain or distress avoided by appropriate drug use.**

These include cannulation of vessels or body cavities performed under anesthesia; minor surgical procedures under anesthesia; minor surgical procedures under anesthesia such as biopsies, laparoscopy and others where post-surgical pain-distress is absent or minimal. Major surgical procedures, under anesthesia, and permitting recovery, that result in minor post-surgical pain; such procedures must have documents veterinary involvement. **\*\*NO PHYSICAL OR ANATOMIC DEFECT CAN BE CREATED.**

Comment: During and after Level 2 studies, animals are not excepted to show anorexia, dehydration, abnormal discharges, hyperactivity, increased/recumbency or dormancy, increased vocalization, self-mutilation, aggressive defensive behavior, or demonstrate social withdrawal and self isolation.

**3. Studies which cause short term discomfort/distress/pain.**

Included are studies using noxious stimuli from which escape is possible; using tumor implants/hybridomas; domestic 1 animal production methods, i.e., tail docking, neutering, dehorning, debeaking, etc., these involve major surgical procedures under anesthesia, permitting recovery, with adherence to acceptable veterinary practices, i.e., post-op analgesia, fluid therapy and required veterinary nursing care; prolonged periods (several hours or more) of physical restraint or deprivation of the animal's environmental necessities, such as maternal deprivation, aggression, predatory-prey interactions, procedures which alter perceptual or motor functions. Also included are studies in which diseases or toxicities are induced, and those in which animals are treated or euthanized when clinical symptoms begin to appear. Animals in Level 3 studies experience pain/discomfort, but the necessary treatments to alleviate the symptoms are available and provided, or the animals are euthanized.

**4. This level indicates pain or distress for which the use of appropriate anesthetics, analgesics, or tranquilizer drugs would adversely affect the procedure, results, or interpretation.**

The designation of this level is cause for extremely close scrutiny by the IACUC and requires that the investigator attach a full explanation and justification for this pain level to the animal use application. Such studies include application of noxious stimuli from which escape is impossible; exposure to noxious stimuli and agents whose effects are unknown; foot pad or intradermal or intraperitoneal injections of Freund's complete adjuvant; new experiments which

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have a high degree of invasiveness (with no veterinary involvement); surgery without anesthetics; induction of aggressive behavior leading to self-mutilation or fighting. Other examples to be included are toxicity testing where death is the end-point; induction of diseases where infected animals are permitted to succumb rather than be euthanized or treated therapeutically; using a euthanasia method not approved by the AVMA or our committee.

Comment: Level 4 projects present an explicit responsibility on the researcher to explore alternative methods before proceeding with the study. Level 4 projects are considered by some to be highly questionable or unacceptable, irrespective of the significance of the anticipated results. Before the IACUC can review and approve these projects, the justification statements and the veterinary involvement must be clearly presented and understandable.

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Animal Use Protocol Application

E-mail :

Instructions (b)