

**THE UNIVERSITY OF ALABAMA
INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC)**

The Institutional Animal Care and Use Committee is responsible for the welfare of "any live, vertebrate animal used or intended for use in research, experimentation, testing, training, or related purpose" if these animals are maintained at The University of Alabama.

PROPOSED ANIMAL USE REVIEW FORM (revised 4/5/2012)

For Office Use Only:

IACUC #: _____	Date Received: ____/____/____	Biohazard _____
	Approval Date: ____/____/____	Radiation _____
Veterinary Consultation: _____	Date: ____/____/____	

(PLEASE PRINT OR TYPE ALL ANSWERS)

PRINCIPAL INVESTIGATOR: _____

TITLE OF GRANT/CONTRACT/PROPOSAL OR COURSE NUMBER AND TITLE:

FUNDING AGENCY/DEPARTMENT & ID NUMBER (if applicable):

PERIOD OF THE PROPOSED ANIMAL USE ACTIVITY: [____/____/____ - ____/____/____]

As specified in the Animal Welfare Act, the attending veterinarian or his designee must be consulted in the planning of your animal use activity. The attending veterinarian will provide medical care as necessary.

Name of veterinarian consulted: _____ Date: ____/____/____

Certification: I will comply with the procedures and methods described in the NIH Guide for the Care and Use of Laboratory Animals (Pub. 85-23) and with PHS policy, the Animal Welfare Act, and Applicable University of Alabama policies. As Principal Investigator, I acknowledge responsibility for this project and assure that the faculty, staff, and students who participate in it are qualified (or will be adequately trained) to conduct it in a humane manner.

Signature, Principal Investigator

_____/_____/____

Date

I have reviewed this proposal and concur with its submission.

Signature, University Department Chairperson

_____/_____/____

Date

A. Description and Objectives:

1. Write an abstract of the teaching/research project in **layman's language** (100 words or less). Stress relevance of the proposed teaching/research activity to the general public.

2. Research or Instructional *Objectives*. Briefly state, using easily understandable **Lay Terms**, the *objectives* and the *specific aims* of the research or teaching activity (as for a federal research grant or a course syllabus) and their relevance to advancing scientific knowledge and/or benefits to human/animal health (Note—A section from your grant application, using highly technical terms, is *not acceptable*):

B. Personnel:

1. Principal Investigator: _____

Title/Department: _____

Campus Mailing Address: _____

Telephone: Office: _____ Home: _____

Co-Investigator (s): _____

Mailing Address: _____

Telephone: Office: _____ Home: _____

Laboratory Contact, if any (name): _____ Telephone W: _____

H: _____

Technical Staff (name/s): _____ Telephone: _____

_____ Telephone: _____

_____ Telephone: _____

2. Qualifications. Describe the RELEVANT (species/procedures) training of investigators and technicians enabling them to conduct the procedures described in the proposal and to use the animal species chosen. If personnel will be trained for the study, please indicate how and by whom.

(a) Principle Investigator:

(b) Co-Investigator(s):

(c) Technician(s):

C. Classification by Animal Use:

1. Animal Requirements: This information is requested for University record keeping related to USDA and other records.

List animal species used in this protocol by scientific and common name. Indicate those that are endangered or threatened. If more space is needed attach list as an addendum.

(1) _____ (2) _____ (3) _____ (4) _____

This protocol is for ___ Research ___ Teaching ___ Both ___ Or if other, explain.

2. Classification by stress levels:

1. Category B

*Animals being bred, acclimatized, or held for use in teaching, testing, experiments, research, or surgery **but not yet used** for such purposes. Non-invasive observations only of animals in the wild.*

Examples:

1. Animals being bred or housed, without any research manipulation, prior to euthanasia or transfer to another protocol.
2. Observation of animal behavior in the wild without manipulating the animal or it's environment.

2. Category C

Animals that are subject to procedures that cause no pain or distress, or only momentary or slight pain or distress and do not require the use of pain-relieving drugs.

Examples:

1. Holding or weighing animals in teaching, outreach or research activities.
2. Observation of animal behavior in the lab.
3. Ear punching of rodents.
4. Tail snips in mice \leq 21 days old.
5. Peripheral injections, blood collection or catheter implantation.
6. Feed studies, which do not result in clinical health problems.
7. Routine agricultural husbandry procedures approved by the IACUC in a protocol or SOP.
8. Live trapping.
9. Positive reward training.

3. Category D

Animals subjected to potentially painful or stressful procedures for which they receive appropriate anesthetics, analgesics and/or tranquilizer drugs.

Examples:

1. Survival surgery
2. Non-survival surgical procedures
3. Laparoscopy or needle biopsies
4. Retro-orbital blood collection
5. Exposure of blood vessels for catheter implantation
6. Induced infections or antibody production
7. Tattooing
8. Exposure of skin to UV light to induce sunburn
9. Tail snips in mice $>$ 21 days old
10. Research procedures that could potentially increase pain or distress (ex: anesthesia/analgesia studies)

4. Category E

*Animals subjected to potentially painful or stressful procedures that are **not** relieved with anesthetics, analgesics and/or tranquilizer drugs. Withholding anesthesia/analgesia must be scientifically justified in writing and approved by the IACUC.*

Examples:

1. Toxicological or microbiological testing, cancer research or infectious disease research that requires continuation after clinical symptoms are evident without medical relief or require death as an endpoint
2. Ocular or skin irritancy testing
3. Food or water deprivation beyond that necessary for ordinary pre-surgical preparation
4. Application of noxious stimuli such as electrical shock that the animal cannot avoid/escape.
5. Any procedures for which needed analgesics, tranquilizers, sedatives, or anesthetics must be withheld for justifiable study purposes.

(1) Category B - NUMBER OF ANIMALS:

SPECIES	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL

(2) Category C - NUMBER OF ANIMALS:

SPECIES	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL

(3) Category D - NUMBER OF ANIMALS:

SPECIES	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL

(4) Category E - NUMBER OF ANIMALS:

SPECIES	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL

D. Assurances:

1. Lack of non-painful, non-stressful alternatives: The Principal Investigator **must consider alternatives** to procedures that may cause pain or distress to animals. For Categories D and E (Item C.2) provide a statement that non-painful, non-stressful alternatives are not available and the methods and sources used to determine this. Conduct a computer assisted literature search and provide the name(s) of the data base(s) searched and the date(s) of the search(es) and keep copies of the search results.

2. Research Duplication: The PI is required by law (CFR9, AWA para.2.31d) to provide a statement that alternative research models or teaching alternatives are not available and that the proposed research or teaching activity does not *unnecessarily* duplicate previous work. Conduct a computer assisted literature

search and provide the name(s) of the database(s) searched and date(s) of the search(es) and keep copies of the results.

3. Rationale for species: Enter a brief statement explaining why the *species described* and the *number(s) requested* must be used. Address reasons such as pertinence to previous work, statistical significance, etc.

E. Research or Instructional Procedures:

1. Describe, in general terms, the *study or instructional design* and *all animal procedures*. Include information on the *numbers* and *frequencies* of the *procedures* and the *eventual disposition* of the *animals*. Specific details of surgery, anesthetics, etc., are requested later and are not required here. For field collection protocols, note any requirements for permits and copies of the needed permits must be on file before work can begin. Attach responses as an addendum.
2. Where will procedures be performed (building and room if known)?
3. Where will animals be housed?
 - (a) Has facility manager been consulted to determine if sufficient space is available for project?
4. *Exceptions* to standard Practices:
 - (a) Unless otherwise approved, ALL DOGS, AND CATS WILL BE HOUSED AND HANDLED SO AS TO PROVIDE FOR ENVIRONMENTAL ENRICHMENT. If this is NOT compatible with the proposed research, state what exceptions are required and provide justification:
 - (b) Describe special caging, care, diets, or housing required.

i. Has facility manager been consulted to determine if special needs can be met?

ii. If nonstandard caging or equipment is to be used, please provide description and specifications.

(c) Unless otherwise approved, all dogs will be provided exercise. If this is not compatible with the proposed research, state what exceptions are required and provide justification.

F. Monitoring Animals For Well-Being (other than post-operative care requested in paragraph G.9 and G.10).

1. Indicate *known potential painful/stressful effects* on animals listed in Item C.2, Classes (2) and (3).

2. If *additional* monitoring beyond daily visual inspection is needed, as for painful/stressful effects from experimental procedures, *how, by whom, and how often* will animals be monitored?

3. If, due to experimental procedures, pain/stress occurs in animals, are there any experimental concerns that would influence administration of analgesics or other normal veterinary care to relieve pain/stress?

G. Surgical or Other Procedures that Require Anesthesia (*if no such procedures will be performed, check "not applicable" below and skip to H*):

1. Describe, in a separate paragraph for each animal species, details of each procedure. **Attach description as an Appendix.** *Appendix attached* *Not applicable*

Total number of procedures to be performed each year:

2. Anesthesia: Complete table below related to anesthesia:

Animal Species	Drug Used	Dose/frequency	Route
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Induction Preanesthetic				
Anesthesia Maintenance				
Paralytic Agents				
Post- Procedure Analgesic				

3. How will depth of anesthesia be monitored?

4. Person performing the procedure:

Telephone - Office: _____ Home: _____

5. Will animals be allowed to recover from anesthesia? Yes No (check one)

6. If the previous answer was YES, will more than one procedure be conducted on each animal? If so, how many?

7. If the previous answer was YES, provide justification for more than one survival procedure. If the previous answer was NO, please enter N/A.

8. Enter site of Procedure Room: _____

Enter site of Recovery Room: _____

Animal Study Area, if not Operating Room: _____

9. Describe post-procedural care, including surveillance and treatment for pain:

10. Person(s) Responsible for post-procedural care: _____

Name: _____ Telephone: Office: _____ Home: _____

Name: _____ Telephone: Office: _____ Home: _____

H. Animal Training:

Describe completely the methods to be used for training of animals (if applicable). Otherwise enter "N/A."

I. Animal Restraint:

Describe completely the methods, frequency, and duration of restraint, *other than routine caging and handling*. If none, so state.

J. Euthanasia:

If euthanasia is the end point of the study, indicate the method to be used. **INCLUDE** agent and dose for each species. Euthanasia shall be performed in accord with methods approved by the AVMA guidelines, subject to prior consultation with the investigator.

SPECIES	METHOD	AGENT	DOSE	COMMENTS

K. Endpoint

For those experiments without a defined endpoint, list criteria to be used to remove an animal from the protocol and how these conditions will be monitored. For example: Breeders will be euthanized if a.) the litter size drops below X, b.) there is an infection that does not respond to treatment, c.) stops eating, or d.) the animal shows other objective signs of pain or distress. If these conditions are observed the investigator and attending veterinarian will be notified and they will determine if the animal should be removed from the protocol.

L. Other Drugs & Tissue Collection:

1. Blood/body fluid collection:

SPECIES	FLUID	AMOUNT	FREQUENCY	SITE/METHOD

2. Tissue Collection:

(a) Tissue to be harvested:

(b) Is this a post-mortem harvest? YES NO (If No, complete c. below)

(c) Minor or non-surgical procedures (e.g., biopsies, endoscopies) to obtain tissue or fluid from live animals:

3. Tissue/Fluid/Drug Administration*

Describe agents to be administered not listed above:

SPECIES	AGENT	ROUTE	DOSE (mg/kg)	AMOUNT	POSSIBLE COMPLICATIONS

*The use of **Freund's Complete Adjuvant** requires adherence to the University Recommendation for that agent. Justify below any need for deviation from the written recommendation.

M. Biosafety:

Is there any *in vivo* use of infectious agents or biological or chemical toxins? YES NO

If YES, specify agent(s): _____

Date of approval from the Biosafety Research Committee: ____/____/____

Is there any *in vivo* radioisotope use? YES NO

Date of approval from the Radiation Safety Committee: ____/____/____

(a) Labeled compound(s): _____

(b) Radioisotope(s): _____

(c) Dose per animal: _____
