**Radford University**

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

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

**PROTOCOL TITLE:**

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**Protocol Number (*if previously assigned*):**

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**PROJECT STATUS:** [ ]  Research

[ ]  Teaching

[ ]  Amendment

Amendment Number:

(**Instructions:** Highlight changes in yellow below, clearly indicate desired deletions, and attach a completed Amendment Form to provide summary of changes.)

 [ ]  3-year renewal

 Previous RU IACUC Number (if applicable):

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| **Principal Investigator**:      *(must be an RU faculty member)***Department**:      **Email:**       | **RU ID#:**      **PO Box**:      **Phone:**       |
| **Additional Researcher:**      **Status:** [ ]  **Faculty**  [ ]  **Student****Department**:      **Email:**       | **RU ID#:**      **PO Box**:      **Phone:**       |
| **Additional Researcher:**      **Status:** [ ]  **Faculty**  [ ]  **Student****Department**:      **Email:**       | **RU ID#:**      **PO Box**:      **Phone:**       |
| ***If there are more than 3 researchers, please include additional contact information below:***      |

**FUNDING SOURCE (check all that apply):**

[ ]  Federal Grant or Contract (**include funding approval letter or email copy with your application package.)**

 Agency Proposal Number:

 Grant Start Date: Grant End Date:

[ ]  State or Municipal Grant or Contract

[ ]  Radford University Foundation Grant

[ ]  Other Private Foundation Grant

[ ]  Corporate Contract

 [ ]  Other (specify):

**Deadline for grant proposal (if any):**

**Anticipated Project Activity Dates: From**       **to**

**I. ADDITIONAL FORMS REQUIRED:** (Check and complete appropriate appendices; do not include appendices that are **“not applicable”**)

All projects are required to fill out the main submission form plus the below appendices as appropriate:

 [ ]  Appendix A – Additional Species

 [ ]  Appendix B – Behavioral Studies

 [ ]  Appendix C – Collection of Blood/Tissue

 [ ]  Appendix D – Surgical Procedures

 [ ]  Appendix E – Pain Category “E”

[ ]  Appendix F – Field Studies/Biological Surveys (including Laboratory Use of Wild Captured Vertebrates)

 [ ]  Appendix G – Biohazard and Controlled Substances

 [ ]  Appendix H – Physical Restrain In Unanesthetized Animals

**II. DESCRIPTION OF ANIMAL SUBJECTS:**

**Please specify numbers of animals to be used for the first year and estimate the total for three years for each species.**

Space is provided for one species. Please complete one copy of Appendix A per each additional species. For field studies involving collection of multiple species, attach a list of all species likely to be captured and indicate those species that will be the subject of this project.

**1. SPECIES A:**

1. Strain

2. Sex

3. Age/Weight

4. Approximate Total # for Each Year

5. Total # for 3 years

(You MUST not exceed this amount. Exceeding this amount without prior approval via an amendment is considered significant non-compliance.)

6. Where will the animals be housed?

7. How are animals to be housed?

 Cage/Holding container dimensions and description:

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**2. INDICATE USDA PAIN CATEGORIES (SEE INSTRUCTIONS FOR FULL DEFINITION OF PAIN CATEGORIES):**

 **Approx. # Max. #**

**Pain Category per year for 3 yrs**

Pain Category B (held/bred but not used in research, weaned get may be used):

Pain Category C (momentary/slight pain or distress, without pain relief):

Pain Category D (greater pain or distress than Cat C but with pain relief):

Pain Category E\* (greater pain or distress than Cat C but without pain relief):

**\*If Category “E” applies, the Category E Appendix must be completed and attached.**

**III. DISPOSITION OF ANIMAL:**

[ ]  **Transfer to another Research Facility and/or Protocol (specify):**

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[ ]  **Euthanasia:** (Techniques for euthanasia shall follow current guidelines established by the [American Veterinary Medical Association Guidelines for the Euthanasia of Animals (2013).](https://www.avma.org/KB/Policies/Pages/Euthanasia-Guidelines.aspx) Other methods must be reviewed and approved by the IACUC on a case-by-case basis and specific scientific justification must be included in the summary.)

**Describe method(s) of euthanasia of animals (include dose (mg/kg) and route of administration when using a drug):**

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 **Specify if the drug is a restricted material, indicating category:**

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[ ]  **Disposal of Carcass (specify):**

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[ ]  **Release: Specify Guidelines:**

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[ ]  **Other (including adoption, specify):**

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**IV. SUMMARY:**

**Please address the following:**

* Describe your proposed protocol, emphasizing the use of animals.
* Do not submit an abstract of your grant proposal.
* Write in terminology understandable to educated lay persons, not scientific specialists, and avoid or define abbreviations.
* Describe specifically what will be done with the animals.
* Indicate the expected scientific information to be gained.
* Discuss the procedures in order of implementation or execution, and give sufficient detail for the Committee to understand what will happen to each animal. **Use additional sheets if necessary.**

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**V. PERSONNEL QUALIFICATIONS:**

It is an institutional obligation to ensure that professional and technical personnel and students who perform animal anesthesia, surgery, or other experimental manipulations are qualified through training and/or experience to accomplish these tasks in a humane and scientifically acceptable manner ([Guide for the Care and Use of Laboratory Animals: 8th Edition (NRC)](http://www.nap.edu/catalog.php?record_id=12910), p. 15-17, 2010 or current published version).

1. List personnel who will be performing the animal procedures and indicate the training and number of years of experience of each person for the types of animal procedures proposed for each species.

Personnel who will be using radioisotopes with experimental animals must be trained and have approval from the University Safety Manager.

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| **Name** | **RU Username** | **Relevant Education/ Training** | **Tasks Performed in Protocol and Number of Years Experience for Each Task** | **RU Status** | **Role** |
| *Example:* Laura Noll | Lnoll  | BS, RLAT, ILAM | Rabbit ear vein injections and blood collection (2 years) | A/P Faculty | PI |
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1. Describe plan for training or provide statement of experience with this model and procedure for all personnel, present and future:

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**VI. JUSTIFICATION FOR THE USE OF PROPOSED ANIMAL MODEL:**

1. What are the probable benefits of this work to human or animal health, the advancement of knowledge, the instruction of students, or the good of society?

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2. Justify the selection of the proposed animal species, strain, and numbers **(include statistical or other appropriate criteria for animal numbers).** Cost is not a valid justification.

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3. Describe steps taken to minimize pain, distress and/or suffering by applying the 3 R’s (Reduction, Replacement, and Refinement).

 At minimum, include the following as requested below: 1. the names of the **two** databases searchers; 2. the date the search was performed; 3. the period covered by the search and; 4. the key words and/or the search strategy used.

 Specifically, “…the written narrative should include adequate information for the IACUC to assess that a reasonable and good faith effort was made to determine the availability of alternative or alternative methods. If a database search or other source identifies a *bona fide* alternative methods (one that could be used to accomplish the goals of the animal use proposal), the written narrative should justify why this alternative was not used.” (USDA Policy #12: Alternatives to Painful Procedures. *Animal Care Resource Guide*, June 21, 2000).

 **Reduction, replacement, and refinement** (the three R’s) **must be addressed**, not just the animal replacement (attach pages as needed).

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4. Literature Search:

 Date Search Performed:

 Years Searched:       -

 Key Words Searched:

 Include at least **two relevant databases**:

[ ]  Medline (Index Medicus) [ ]  Toxline [ ]  PsycINFO/PsychNET

[ ]  Vet CD (Index Veterinaries) [ ]  AGRICOLA [ ]  Life Sciences

[ ]  Biological Abstracts: [ ]  AWIC [ ]  BIOSIS

[ ]  Altweb [ ]  Current

[ ]  Other:

5. Does this experiment duplicate previous experiments? [ ]  Yes [ ]  No

If yes, explain why duplication is necessary for your research. (Attach additional pages as needed).

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