

VERTEBRATE ANIMAL RESEARCH PROPOSAL

1. **Researcher(s):**
2. **Advising faculty member(s):**
3. **Proposed starting date:**
4. **Research project title:**

5. **Purpose and objectives of the research project:**

6. Scientific name, common name and characteristics of all vertebrate species used. For field studies, please list all target species, species listed as protected, threatened, or endangered by the United States Fish and Wildlife Service or the state in which the research will be conducted, and any non-target species that are likely to be impacted.

Latin binomial	Common name	Sex	Number
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7. Explain why a smaller number of vertebrates would not allow you to meet your objectives. If this is a field project, and you cannot predict the exact number of vertebrates to be sampled, please give your best estimate and an explanation of the variables that will determine your sample size.

8. Identify the source of the vertebrates to be used or the study area(s) for field studies.

9. If live vertebrates are to be maintained in captivity for greater than 12 hours, explain where and how the animals will be housed and who will be responsible for their daily care. If no animals will be maintained in captivity, please clearly state that to be the case.

10. Provide a complete and detailed description of all procedures to be performed involving vertebrate animals. Your response should address the handling and restraint of non-anesthetized animals; deprivation of food or water for a period that is atypical for this species; use of chemical or biological agents; the drawing of blood; the use of anesthetics, analgesics, sedatives or tranquilizers; surgical procedures; exposure to radioactive materials, known carcinogens, or highly toxic substances; and any post-operative procedures. Note that you must justify the scientific necessity for any variations from the established guidelines for handling and care of animals as published in the *Guide for the Care and Use of Laboratory Animals*, 8th edition found at:
<https://grants.nih.gov/grants/olaw/Guide-for-the-Care-and-use-of-laboratory-animals.pdf>

11. Will any of the aforementioned procedures cause pain or distress in the vertebrate animal research subjects other than that necessitated by collection, injection, and otherwise mild, momentary discomforts? If so, please explain.

12. Provide alternative procedures that were considered and rejected as well as a brief explanation of why the alternative procedures were rejected.

13. Identify serious human health risks (expected exposures to disease agents, toxic chemicals used, dangerous environmental conditions, etc.) to which any participants might be exposed during the routine performance of the duties proposed herein, and describe steps taken to mitigate those risks.

14. Describe the fate of the animals upon completion of the protocol.

15. I certify that the above information is accurate and complete and that I have read and agree to abide by the *Principles for the Utilization and Care of Vertebrate Animals Used in Testing, Research, and Training*, located at: <https://grants.nih.gov/grants/olaw/tutorial/relevant.htm>
These procedures will be carried out in a humane and scientifically acceptable manner as described herein.

Researchers' Signatures

Date