(Please delete this text box before submitting your proposal)

For instructions for work involving **human subjects**, see: <https://grants.nih.gov/grants/how-to-apply-application-guide/forms-f/research-forms-f.pdf>

If **vertebrate animals** are involved in the project, address each of the criteria listed below.

* Provide a concise, complete description of the animals and proposed procedures.
* The responses to the criteria below must be well-integrated with the other sections. There should be sufficient detail in the responses for peer reviewers and NIH staff to evaluate. Additional details, if any, may be included in the Research Strategy.
* Identify all project/performance or collaborating site(s) and describe activities of proposed research with vertebrate animals in those sites.
* Address the following criteria as succinctly as possible. An incomplete application will not be considered for review. It will be considered incomplete if the following criteria are not addressed.

The criteria are as follows:

* + Description of Procedures. Provide a concise description of the proposed procedures to be used that involve vertebrate animals in the work outlined in the “Research Strategy” section. Identify the species, strains, ages, sex, and total numbers of animals by species, to be used in the proposed work. If dogs or cats are proposed provide the source of the animals.
  + Justifications: Provide justification that the species are appropriate for the proposed research. Explain why the research goals cannot be accomplished using an alternative model (e.g. computational, human, invertebrate, in vitro).
  + Minimization of Pain and Distress: Describe the interventions including analgesia, anesthesia, sedation, palliative care and humane endpoints to minimize discomfort, distress, pain, and injury.
  + Euthanasia: State whether the method of euthanasia is consistent with the recommendations of the American Veterinary Medical Association (AVMA) Guidelines for the Euthanasia of Animals. If not, describe the method and provide a scientific justification.

Do not use vertebrate animal section to circumvent page limits.