APPLICATION FOR APPROVAL OF ANIMAL CARE AND USE
California State University Fullerton
(revised 01/28/2020)

PROTOCOL #: ________

Principal Investigator: __________________________ Date (MM/DD/YYYY): __________

Department: ________________ College: ________________ Phone #: ________________

Other Investigator(s)/Student(s):
__________________________________________________________________________

Title of Project or Course Number and Title: ______________________________________

Please review the separate instructions and advice document as you prepare your application. We urge you to send your completed application to the IACUC Chair (pstapp@fullerton.edu) for pre-review prior to formally submitting it. Once your application is complete, send one signed digital copy via email to the IACUC Coordinator (iacuc@fullerton.edu; 657-278-7719).
For emergencies involving animals, call John Chappell, Director of Animal Care (657-278-5388) or Dr. Scott Weldy, Campus Veterinarian (949-855-9744).

☐ New Application  ☐ Renewal of Previous Protocol (write number): ________________

[If the procedures are identical to those in a project that has already been approved, please specify the Protocol Number of the approved project: __________. In answering the questions below, please note any differences between the proposed project and the one previously approved.]

Funding Sponsor, if any: ________________________________________________________

Overall Project Period: ________________ to ________________

[NOTE: Protocols can be approved for a maximum of 3 years; annual review/continuation is required.]

NATURE OF THE PROJECT/COURSE (Check all applicable items)

☐ Observation ☐ Inducement of a Disease State ☐ Antibody Production
☐ Survival Study ☐ Behavioral Study ☐ Prolonged Restraint
☐ Terminal Study ☐ Withholding of Food or Water ☐ Multiple Survival Surgery
☐ Blood/Tissue Collection ☐ Field Study
☐ Other (provide details) ______________________________________________________

Species/Strain to be used:

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<tr>
<th>Species/Strain</th>
<th>Common Name</th>
<th>Sex</th>
<th>Age</th>
<th>Weight (g)</th>
<th>Maximum</th>
<th>Is this a Threatened or Endangered Species?</th>
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*To add rows, place your cursor in the right-most cell above and press the "Tab" key on your keyboard.

[NOTE: Campus users of animals may be charged per animal per day for use of the animal facilities. Consult with the Director of Animal Care for the current per diem rates.]

IACUC Protocol Application Form (01/28/2020)
1. **Project description:** Current federal policy dictates that “the number of experimental animals should be the minimum number necessary to produce valid results. When possible and appropriate, a non-animal substitute should be used, or a species of lower phylogenetic order substituted if available.” *(from NIH Publ. 92-3415).* With this in mind, please answer the following questions:

1.a. **for Research Protocols:** Why is the project scientifically important? What are its scientific objectives? Why are these animals (species, number, etc.) appropriate? If this protocol is a renewal of a previously approved 3-year research project, explain the relationship to that project.

1.b. **for Instructional Protocols:** Why is the project educationally important? What are its educational objectives? Why are these animals (species, number, etc.) appropriate? If this protocol is a renewal of a previously approved 3-year instructional protocol, explain the relationship to that protocol.

2. **From what sources will the animals be purchased or obtained?**

3. **What provisions are being made for the housing and care of the animals?**

4. **Experimental procedures:**

4.a. What procedures will be performed on animals? Describe your experimental design and give details of any surgery, injections, use of radioactive materials, restraint, environmental modifications, stressful stimuli, etc.

4.b. What steps will be taken to minimize discomfort, distress, or pain for the animals?

5. **Surgery:**

☐ Yes ☐ No Will any surgeries be performed? If “Yes”, answer questions 5a - 5c; otherwise skip to Question 6.

5.a. If surgery is to be performed, what anesthetics will be used? Why are these the most appropriate for the circumstances? Who will administer the anesthesia? Give specific type, dose, and route of anesthesia administration (you may request information from the Veterinarian or Director of Animal Care).

*[NOTE: Surgery performed on non-rodent species must be performed in a dedicated surgical facility.]*

5.b. Will any animals be subjected to more than one survival surgery? If so, please explain the scientific necessity for such a procedure.

5.c. If surgery is to be performed, what provisions have been made for pre-operative and post-operative care?

6. **Euthanasia:** If the animals are to be sacrificed, what method(s) of euthanasia will be used? Who will administer the euthanasia? Give specific type, dose, and route of anesthesia administration. Methods must be consistent with those approved by the 2020 AVMA Guidelines on Euthanasia.

7. **What procedures will be used if unexpected developments place animals in danger or distress?**
8. **Personnel training:** Who will carry out the experimental procedures? What training in the procedures have these persons had? Who provided the training?

*NOTE: All persons listed on a protocol must complete the required online CITI training and any other training required by the Principal Investigator, Director of Animal Care, or EHS. Certificates must be on file in the IACUC Office before the application will be approved.*

9. **Human health and safety:**

☐ Yes  ☐ No  Will any personnel, including students, regularly handle or directly assist with the care of live vertebrates (for example, in the field or in a CSUF animal facility)?

If “Yes”, the PI must submit an *Animal Handler Job Duties* form and each person handling animals must submit a *Medical Health Questionnaire*, which will be reviewed by a medical provider under contract with EHS. The forms must be approved and any follow-up training or treatment must be completed before any work with animals can begin.

☐ Yes  ☐ No  Are there any other specific, animal-use related risks to the health or safety of researchers, staff, or students involved in the proposed project?

If ‘Yes’, describe these risks:

10. **Permits:**

☐ Yes  ☐ No  ☐ N/A  Do all personnel involved in the project have valid permit(s) from outside agencies or organizations that are necessary for the project?

*NOTE: You must include valid copies of all permits with your application.*

11. **Alternatives:** Are alternatives to this use of animals feasible or useful? The Animal Welfare Act regulations require a statement by the investigator that alternatives were sought. For procedures that may cause more than momentary or slight pain or distress, investigators must also provide a written narrative of the sources consulted to determine whether or not alternatives to the procedure exist. Provide specific information on:

11.a. What alternatives have been considered, and why are they not suitable (based on scientific considerations)?

11.b. What literature search or source justifies the conclusion that there is no suitable alternative? If the proposed procedures may cause more than momentary or slight pain or distress, the USDA requires that the PI must do a search for alternatives to the procedure and state what sources were consulted, the search strategy or key words used, the date the search was done, and the years covered by the search. Replacement, reduction, and refinement must all be addressed separately below.

*NOTE: If you search online databases, USDA requires that you state database(s) searched, key words used, date the search was done, and dates covered by the search. Information on alternatives can be found at http://altweb.jhsph.edu/ and https://www.nal.usda.gov/awic/about-awic.*
12. Duplication: For research protocols, does the proposed work duplicate research that has been done on animals by other researchers? For instructional protocols, does this work involve duplication to meet instructional goals? Provide specific information on:

12.a. What literature search or source has been consulted to provide assurance that there is no duplication?
[NOTE: If you search online databases, the USDA requires that you provide database(s) searched, key words used, date the search was done, and dates covered by the search.]

12.b. If there is duplication, why is the duplication necessary?

I certify that:

a. This Protocol provides a complete and accurate description of all proposed uses of live vertebrate animals in this research or instructional activity. Any proposed revisions to animal care and use procedures will be promptly forwarded in writing to the IACUC for review.

b. I will comply with all regulations governing the importation, collection and/or maintenance of wild species, including obtaining permits from all applicable regulatory agencies prior to the acquisition of animals.

c. I have reviewed a copy of the CSUF Institutional Animal Care and Use Handbook (available online at the IACUC website or from the IACUC Coordinator) and agree to abide by all applicable laws, policies and regulations, including the Animal Welfare Act, NIH Guide for the Care and Use of Laboratory Animals, and all CSUF policies and procedures regulating the humane use of vertebrate animals in instruction and research. I will ensure that students and staff under my supervision have access to and are familiar with the Animal Care and Use Handbook.