***Points 1-3 are mandatory; 4 can be eliminated if and only if animals will not be euthanized.***

***NIH Policy and Guidance:*** [***http://grants.nih.gov/grants/olaw/vertebrate\_animal\_section.htm***](http://grants.nih.gov/grants/olaw/vertebrate_animal_section.htm)

**Vertebrate Animals**

1. **Description of Procedures**

NIH Requirements: *Provide a concise description of the proposed procedures to be used that involve vertebrate animals. Identify the species, strains, ages, sex and total number of animals by species to be used. If dogs or cats are proposed, provide the source of the animals.*

Suggested Language (bold to be replaced by investigator)

This project will use **ages** and **specific** **types** (e.g., dams, neonates) **of animal species** (**generating laboratory where applicable**) for **proposed procedures**. A total of **number** animals (**age/sex breakdown where applicable)** will be used.

1. **Justification**

NIH Requirements: *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).*

No suggested language; each proposal will be unique in this section.

1. **Minimization of Pain and Distress**

NIH Requirements: *Describe the interventions to minimize discomfort, distress, pain and injury. These include analgesia, anesthesia, sedation, palliative care and humane endpoints.*

Suggested Language (bold to be replaced by investigator)

Animals are housed in an adjacent building under Specific Pathogen-Free conditions in microisolator units in self-contained racks with HEPA filtered air. Veterinary care for all lab animals is on a 24 h/day, 7 day/week basis (including holidays) under the supervision of Dr. Akiko Sato in the UCR Office of the Campus Veterinarian in accordance with Public Health Service Policy, U.S. Department of Agriculture (USDA), and AAALAC requirements. The vivarium director provides continuing educational training sessions on procedures and animal care.

**Additional information, unique to proposal.**

Pups and/or adult offspring will be sacrificed using methods consistent with AVMA guidelines as per IACUC approved protocol; see Point 4 below.

1. **Euthanasia Protocol** (Only required if animals are to be euthanized)

NIH Requirements: *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.*

Suggested Language (bold to be replaced by investigator)

Animals will be euthanized by **method**. This method of euthanasia is **consistent/not consistent** with the recommendations of the Panel of Euthanasia of the American Veterinary Medical association.

**If method is NOT consistent, a description and scientific justification are required.**