In order to submit an animal utilization proposal (AUP), or protocol, to the IACUC for review, the Principal Investigator must certify the following:

- I assure that all students, staff, and faculty on this project are familiar with the Animal Welfare Act (AWA) and the Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals, the National Institute of Health (NIH) Guide for the Care and Use of Laboratory Animals, and recognize their responsibility in strictly adhering to approved protocols.

- I assure that all individuals listed on this project are qualified or will be trained to conduct procedures involving animals under this proposal, and that they have completed an approved UT-Austin Orientation Course [3198: Orientation] and received training in the biology, handling, and care of this species; aseptic surgical methods and techniques (if necessary); the concept availability and use of research or testing methods that limit the use of animals or minimize distress; the proper use of anesthetics, analgesics, and tranquilizers (if necessary), and procedures for reporting animal welfare concerns.

- I assure that all procedure will be conducted in accordance with The University of Texas at Austin safety procedures, including those pertaining to personal protective equipment.

- I assure that all individuals working on this proposal are participating in the Occupational Health Program-Laboratory Animal and Biomedical Services (OHP-LABS).

- I assure that ANY change in the care and use of animals involved in this protocol, including ANY change in the personnel listed on this protocol, that would affect their welfare will be promptly forwarded to the IACUC for review. Such changes will not be implemented until approval is obtained from the IACUC. Animals will not be transferred between investigators without prior approval.

- I assure that I have reviewed the pertinent scientific literature and the sources and/or databases and have found no valid alternative to any procedures described herein which may cause more than momentary or slight pain, distress, or generalized discomfort to animals, whether it is relieved or not.

- I assure that every effort has been made to minimize the number of animals used and reduce the amount of pain, distress, and/or discomfort these animals must experience.
• I assure that vertebrate animal expenses will be paid according to university policy and procedures, that the IACUC will evaluate the congruency of federally-sponsored project proposals with the animal care and use protocol and give approval prior to the use of the associated accounts, and that any subsequent changes to the use of federally-sponsored project funding will be submitted to the IACUC for further IACUC consideration.

• I assure that the information contained in this application for animal use is accurate to the best of my knowledge.

• I understand that this application and/or my animal use privileges may be revoked by the IACUC if I violate any of the aforementioned assurance statements.

It is implicit upon submission of the protocol that the Principal Investigator has read and agrees to abide by the above obligations.

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<tr>
<th>Approval Date</th>
<th>Major Change(s) Approved</th>
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<tr>
<td>06/07/2021</td>
<td>• Assurance statement about vertebrate animal expenses updated for consistency with the animal use protocol form.</td>
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