

WICHITA STATE UNIVERSITY INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC) ANIMAL PROTOCOL FORM

Date:		
Principal Investigator:		
Title of Project:		
Protocol #:	Animal Species:	
Funding source:		RTT grant/proposal #:

You must submit a copy of the project summary and the animal section submitted with your proposal.

OVERVIEW

1. Briefly describe the purpose of the study, experimental procedures and manipulations of the animals, and the expected outcome in lay terms. Include a justification of what you want to do and how it contributes to your work. If this is a DeNovo submission, please provide a justification or rationale for continuing this protocol and explain any changes from the previous iteration of the study. (If there were any adverse events or unanticipated problems, please see appendix 5).

	scribe the sequence and rationale of the manipulations and pr GICAL PROCEDURES HERE. Step-by-step bullet points are h		DESCRIBE DETAILS OF		
3.	ANIMAL USAGE:	Total # Used	Total #		
	SPECIES	For The <u>Previous</u> Protocol	Total # Requested For <u>This</u> Protocol		
			. 100000		
4.	NATURE OF THE PROTOCOL/STUDY:	<u> </u>			
[] []	Terminal (Acute) Study Neuromuscular Blockers	Inducement of a Disea Inducement of Behavio Administration of Test S Transgenic Breeding	oral Stress		
5.	(USDA) PROJECT (Pain) CATEGORY: B C]D			
	Category B: Breeding or Holding Colony Protocols				
	Category C: Involves procedures that cause no pain or no more relieving drugs are used.	than momentary or slig	ght pain and no pain-		
	Category D: Involves procedures that may cause more than more appropriate sedatives, analgesics, or anesthetics will be administed		distress for which		
	Category E: Involves procedures that may cause more than sedatives, analgesics, or anesthetics cannot/will not be requirements.				

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characteristics as body s features.]	size, species, stra	ain, breed, data fi	rom previous s	studies or unique ar	atomic or physiologic
7. Give the names of all complete CITI training					
Name and highest degree	Department	Email Address	Faculty, student, etc	Years & Relevant Experience	Role/Responsibility for this project
7a. If personnel do not h	ave experience, ł	now will they be t	rained?		
7b. Have all Wichita Stat conflict of interest and tir					eted a disclosure of
Yes	No - contac	t Compliance at <u>c</u>	compliance@v	<u>vichita.edu</u> .	N/A

7c. Do any of the personnel (including students or their immediate family members and those unaffiliated with WSU) on the project have financial arrangements with the sponsoring company or the products or services being evaluated which may include consulting agreements, management responsibilities or equity holdings in the sponsoring company?
Yes - contact Compliance at compliance@wichita.edu
ANIMAL SUBJECT DESCRIPTION
8. Strain/Stock/Mutant/Breed: Sex: Age/Size:
9. Source:
Microbial Status (Check one): SPF Conventional Axenic Feral Other:
10. Describe how the number of animals needed for the study was determined. [The specific statistical methods or a clear rationale used to determine the numbers of animals needed MUST be provided.]
ANIMAL HUSBANDRY AND CARE
11. Are animal husbandry and routine handling practices and procedures for this study, including animal health monitoring, diet, cage, environmental control, exercise (where required), environmental enrichment (where required), and means of identification, described in the Wichita State University (WSU) standard operating procedures manual?
YES - PROCEED TO ITEM 12.
NO - ATTACH APPENDIX 1, SPECIAL HUSBANDRY PRACTICES. [All husbandry and care practices must meet standards described in the Animal Welfare Regulations and the <u>Guide for the Care and Use of Laboratory Animals</u> unless they have been specifically excepted in Appendix 1 by the WSU IACUC for scientific reasons.
12. Animal housing location:
Name of institution, if not WSU:
13. The current AAALAC accreditation status of the facility where animals will be housed:
ACCREDITED
NON-ACCREDITED - If Non-Accredited, attach a copy of the OLAW Assurance Statement, and a copy of the latest USDA site visit report for the Non-Accredited facility. Revised March, 2024 Page

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EXPERIMENTAL PROCEDURES

14. Location where experimental procedures will be performed including building name:

15. Will test substances be administered? [Radioisotopes, toxic, antigenic, pharmacologic, infectious, carcinogenic, or other types of substances, biomaterials or cells administered to live animals are considered to be test substances.]
NO, PROCEED TO ITEM 16. YES, ATTACH APPENDIX 2 - TEST SUBSTANCES.
16. Will specimens be collected prior to euthanasia? [All body fluids and tissues are considered specimens.]
NO, PROCEED TO ITEM 17. YES, ATTACH APPENDIX 3 - SPECIMEN COLLECTION.
17. Will SURGERY be performed as part of the experimental protocol?
NO, PROCEED TO ITEM 18. YES, ATTACH APPENDIX 4 - SURGERY
18. Is death an endpoint in this study?
NO, PROCEED TO ITEM 19. YES, Explain why an earlier endpoint is not acceptable:
19. Will animals be subject to experimental procedures that are not noted elsewhere in ITEMS 15-18?
NO - PROCEED TO ITEM 27.
YES - Check the following applicable procedures and answer questions 20-26.
Physical restraint Noxious stimuli Forced exercise Behavioral manipulations Other:
20. Describe each procedure and the expected outcome. Include the chemical, physical, or behavior modifying characteristics of the stimulus or material administered or withdrawn.

21.	Who will perform the procedure?
22.	Describe the length of time each procedure will last.
23.	Will the procedure cause more than momentary pain or discomfort? NO - PROCEED TO ITEM 24. YES - Describe the procedures or methods that will be used to minimize pain and discomfort:
	Describe the methods for monitoring the condition of the animal during the length of the procedure and during post-procedure period:
25.	Provide the name(s) of the person(s) responsible for monitoring the condition of the animals:
	You must provide to the WSU Staff the phone numbers where they can be reached during and after work rs. Check here to indicate this has been done.
	EUTHANASIA OR OTHER DISPOSITION OF ANIMALS
27.	Are animals euthanized for tissue collection or at the completion of this study?
	NO - PROCEED TO ITEM 33.
	YES - ANSWER QUESTIONS 28-32. [For guidance on acceptable methods of euthanasia, reference should be made to the 2020 AVMA Guidelines on Euthanasia located at: https://www.avma.org/KB/Policies/Documents/euthanasia.pdf
28.	Two methods of euthanasia must be used - a chemical method and a physical method are recommended.
	A. Name of the chemical agent(s) that will be used:
	Dose: Route:
	B. Name the physical method that will be used:

29. Justify any method of euthanasia that is NOT recommended by the AVMA Guidelines on Euthanasia or state N/A.
30. Give the name(s) of the person(s) who will perform the euthanasia:
31. Are these persons experienced with this method of euthanasia?
NO - Name the experienced person who will train them:
YES - PROCEED TO ITEM 32.
32. Describe the fate of experimental animals, other than euthanasia, after completion of the study:
MANDATORY CONSIDERATIONS
33. Do the procedures to be employed have the potential to cause more than momentary or slight pain or distress (Category D or E)? [The United States Department of Agriculture has determined that surgery conducted under anesthesia is a potentially painful procedure.]
NO - PROCEED DIRECTLY TO ITEM 36.
YES - ANSWER QUESTIONS 34-35.
34. Provide a narrative description of the methods and sources used to determine that suitable alternatives were not available or applicable to this study such as less sentient animal models, computer models, and tissue culture. The following are examples of relevant methods that may be supportive of your effort: AGRICOLA database, MEDLINE database, CAB Abstracts database, AWIC TOXLINE database, BIOSIS database, scientific journals, scientific meetings, and/or scientific discussions.
When a database search is the primary means of meeting this requirement, the narrative must, at a minimum, nclude:
a. the name of the database(s) searched:
b. the date the search was performed:
c. the period covered by the search:
d, the key word and/or the search strategy used:

MISCELLANEOUS FEDERAL REQUIREMENTS

All drugs classified by the DEA as controlled substances that will be used in this study must be stored in a locked

cabinet and accessible only to authorized persons in accordance with DEA regulations. 35. Will a flammable anesthetic agent be used in ANY PORTION OF these animal studies? NO - PROCEED TO ITEM 36. YES - A COPY OF AN APPROVED "REQUEST TO USE EXPLOSIVE ANESTHETICS" must be on file with the Environmental Health and Safety Fire Safety Chief. **SIGNATURES** 36. Certification by Principal Investigator. I certify that these studies do not unnecessarily duplicate previous experiments. I further affirm that, to the best of my knowledge, information provided in this Animal Component of Research Protocol is complete and accurate and that no significant changes will be made without advance approval of the IACUC. I agree to provide records of personnel training when requested by USDA inspectors. Principal Investigator Signature Date 37. Approval Signatures The undersigned have evaluated the care and use of animals described in this protocol in accordance with provisions of the Animal Welfare Act, the PHS Guide for the Care and Use of Laboratory Animals, and find that the procedures described are appropriate and acceptable. Attending Veterinarian Signature Date IACUC Chair Signature Date 38. APPENDICES ATTACHED: None Special Husbandry (Appendix 1) Test Substances (Appendix 2) Specimen Collection (Appendix 3) Live Surgery (Appendix 4) Unanticipated Problems (Appendix 5)

APPENDIX 1

SPECIAL HUSBANDRY PRACTICES
(Complete only if applicable or mark N/A here

(Complete only if applicable of mark N/A field
1. Describe non-standard practices or procedures: [Examples include: close confinement, temperature extremes, food or water deprivation, dietary manipulations, special housing, modified light cycle, restricted observation, restricted enrichment, etc.]
2. Justification:
3. Who will perform the procedure?
4. Describe the length of time each procedure will last:
5. Will the procedure cause more than momentary pain or discomfort? NO - PROCEED TO ITEM 6.
YES - Describe the procedures or methods that will be used to minimize pain and discomfort.
6. Describe the methods for monitoring the condition of the animal during the length of the procedure and during the post-procedure period:
7. Provide the name(s) of the person(s) responsible for monitoring the condition of the animals:
You must provide to the WSU Staff the phone numbers where they can be reached during and after work hours. Check here to indicate this has been done.

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APPENDIX 2		JBSTANCES	/A horo□\		
(Complete only if applicable or mark N/A here					
SUBSTANCE NAME	CLASS	DOSE	FREQUENCY	ROUTE	DURATION
Will the test substance(s) cause pain NO - PROCEED TO ITEM 4. YES - Describe the measures that 4. Is the test substance considered to be	at will be taken	to alleviate or n	ninimize these ef	fects.	
NO - STOP HERE. YES - Give names of personnel who will work with hazardous material then proceed to ITEM 5:					
5. If you are using any radio-isotope, or these materials by the Director of Enviro consulted with the Attending Veterinal devices, carcass and waste disposal, cle	nmental Health rian, and that	n and Safety. Th adequate pred	e Director's sign autions, contain	ature indica ment facil	ates that he has ities, protective

protect personnel and prevent accidental animal exposure to the hazardous material. Please provide a letter

Director, Environmental Health

documenting the safety precautions that will be used.

Date

APPENDIX 3

SPECIMEN COLLECTION PRIOR TO EUTHANASIA

(Complete only if applicable or mark N/A here)

1.	Will invasive procedures experimentation?	be employed to collect	tissue or body fluids from	n live animals during this					
NO - PROCEED TO ITEM 2.									
		YES - Characterize the procedure in the box below. [Any procedure that penetrates a body orifice, the integument, or a hollow visceral organ is invasive.]							
•	Tissue Or Fluid Collected Method Of Collection Amount Frequency								
2.	Will the procedure cause m	nore than momentary pain o	or distress?						
	NO - PROCEED TO IT	ΓEMS 4 & 5.							
	VES Give the anosti	notic agent codative or tro	anguilizing agent that will be	Augad JE NONE IS TO BE					
	USED, PROCEED TO	Telic agent, secalive, or the	anquilizing agent that will be	dsed. II NONL 13 TO BL					
_			_	-					
<i>-</i>	Agent	Dose	Frequency	Route					
_									

APPENDIX 3 (continued)
3. Justification for omission of pain relieving agents:
4. Describe the method of restraint used to execute this task for all procedures where surgical plans of general anesthesia are not detailed in number 2 above:
5. Briefly describe the non-invasive procedure and how the specimens will be collected:

LIVE SURGERY

(Complete only if applicable or mark N/A here)

	(Complete	e only if applicable or ma	rk N/A nere)	
1.	Describe the surgical procedures in erbeing done to the animal.	nough detail so that revie	ewers will be able to det	ermine what is actually
^	Who will do the assume Q			
2.	Who will do the surgery?			
<u>3.</u>	Pre-operative procedures:			I
	Fasting - Length:		Clip Hair	Disinfect Site
	Withhold Water - Length:		Scrub Site	Place Catheter
	Other:			
	Preoperative medications: Include sec			tions here.
-	Orug	Dose	Route	

APPENDIX 4 (continued)

5. Intraoperative medications and support: *Include anesthetic agents/paralyzing agents/fluids/ pharmaceuticals essential to support the surgical procedure.*

Drug	Dose	Route	
6. Federal regulations prohibit the use of paraly agents?	zing agents without general	anesthesia. Will you use paralyzing	
NO – PROCEED TO ITEM 7			
YES - Why is it necessary to use these	agents?		
7. Describe the methods used to monitor the st	ate of anesthesia and genera	al well-being:	
	C	G	
8. Will the animal subjects regain consciousnes	ss following surgery?		
NO - STOP HERE			
YES - ANSWER ITEM 9-15			
9. How long will the animal survive?			
-			
10. Will the surgery be performed in a room or a	orea cuitable for acentic cura	on/2	
	_	ery!	
YES - Identify the location where surger	y will be performed:		
NO - Explain:			

APPENDIX 4 (continued	(k			
11. Which of the following	g aseptic techniqu	es will be used?		
Sterile Instrument None: Other:	ts Gloves	Gown Surge	on Scrub Face	e Mask
12. Will multiple survival	surgical procedure	es be performed on a si	ngle animal?	
YES - PROCEED	TO 13.			
NO - PROCEED	TO 14.			
laparotomy, thoracc produces substantia or transection (Brow	otomy, joint replac al impairment of pl n et al. 1993). Mi	cement, and limb ampu hysical or physiologic fu nor survival surgery do	utation] penetrates a unctions, or involves es not expose a bod	ajor survival surgery [e.g. nd exposes a body cavity extensive tissue dissection y cavity and causes little of cannulation, percutaneous
YES - Explain:				
NO - PROCEED 14. Describe the post-op the animals:		ıding drugs, fluids, and	physical support met	thods, that will be given to
Drug or fluid	Dose	Frequency	Route	Duration
14a. Physical support me	ethods:	,		,
, , , , ,				
15. Who will be responsi	ble for post operat	tive care?		
An emergency contact p provided.	hone number mus	st be provided to the WS	SU staff. Check here	to indicate that it has bee

APPENDIX 5		
	Unanticipated Problems or Adverse Events	
	(Complete only if applicable or mark N/A here	ľ

PROBLEMS/ADVERSE EVENTS

Describe any unanticipated adverse events <u>in the past 3 years</u> and include morbidity or mortality, the cause(s), if known, and how these problems were resolved. If NONE, this should be indicated.