

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).

GICAL PROCEDURES HERE. Step	of the manipulation p-by-step bullet poi		s. DO NOT DES	SCRIBE DETAILS
PROPOSED ANIMAL USAGE:				
SPECIES	Total # Requested For Protocol	Total # Anticipated For Year 1	Total # Anticipated For Year 2	Total # Anticipated For Year 3
Terminal (Acute) Study Neu Multiple Surgeries Anti	longed Restraint uromuscular Blocker ibody Production od/Tissue Collection	rs Induceme	nt of a Disease s nt of Behavioral ation of Test Sub ic Breeding	Stress
(USDA) PROJECT (Pain) CATEG	GORY: B		Ē	
Category B: Breeding or Holding Co	olony Protocols			
Category C: Involves procedures th	nat cause no pain or	no more than mom	nentary or slight p	pain and no pain-
relieving drugs are used.				
			light pain or distr	ess for which

b. Describe the characteristics of the animal selected that justify its use in the proposed study. [Consider such characteristics as body size, species, strain, breed, data from previous studies or unique anatomic or physiologic features.]						
7. Give the names of all individuals who will work with the animals in this study. All personnel are required to complete CITI training every 3 years. If additional space is needed, submit a separate word document.						
Name and highest degree	Department	Email Address	Faculty, student, etc	Years & Relevant Experience	Role/Responsibility for this project	
7a. If personnel do not have experience, how will they be trained?						
7b. Have all Wichita State University faculty and unclassified staff listed as personnel completed a disclosure of conflict of interest and time commitment for WSU within the last 12 months?						
Yes	No - contact	t Compliance at <u>c</u>	compliance@w	vichita.edu.	N/A	

7c. Do any of the personnel (including WSU) on the project have financial arra evaluated which may include consult sponsoring company?	angements with the spo	onsoring comp	any or the prod	ducts or services being
Yes - contact Compliance at cor	mpliance@wichita.edu		No	N/A
	ANIMAL SUBJECT DE	ESCRIPTION		
8. Strain/Stock/Mutant/Breed:	S	Sex:	Age/Size:	
9. Source:				
Microbial Status (Check one):	SPF Conventio Other:	nal A	xenic F	eral
10. Describe how the number of anima or a clear rationale used to determine to	-		-	
	ANIMAL HUSBANDRY		iorthio otudu, ii	naluding animal haalth
11. Are animal husbandry and routine monitoring, diet, cage, environmental required), and means of identification procedures manual?	control, exercise (w	here required)), environment	al enrichment (where
YES - PROCEED TO ITEM 12.				
NO - ATTACH APPENDIX 1, SPE meet standards described in the <u>Laboratory Animals</u> unless they scientific reasons.	e Animal Welfare Reg	gulations and	the Guide for	the Care and Use of
12. Animal housing location:				
Name of institution, if not WSU:				
13. The current AAALAC accreditation	status of the facility wh	ere animals wi	ill be housed:	
ACCREDITED				
NON-ACCREDITED - If Non-Acc			Assurance Sta	tement, and a copy of
Revised May, 2023		•		Page 4

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 of the procedures.	discomfort:
24. Describe the methods for monitoring the condition of the animal during the length of the post-procedure period:	the procedure and during
25. Provide the name(s) of the person(s) responsible for monitoring the condition of the	animals:
26. You must provide to the WSU Staff the phone numbers where they can be reach hours. Check here to indicate this has been done.	ed during and after work
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 eutlest be made to the 2020 AVMA Guidelines on Euthanasia located at: https://www.avma.org/KB/Policies/Documents/euthanasia.pdf	hanasia, reference should
28. Two methods of euthanasia must be used - a chemical method and a physical meth	od 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,
include: 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 the cabinet and accessible only to authorized persons in accordance.	
35. Will a flammable anesthetic agent be used in ANY POR	RTION OF these animal studies?
NO - PROCEED TO ITEM 36.	
YES - A COPY OF AN APPROVED "REQUEST TO U the Environmental Health and Safety Fire Safety Chie	JSE EXPLOSIVE ANESTHETICS" must be on file with f.
SIGNATUR	ES
36. Certification by Principal Investigator.	
I certify that these studies do not unnecessarily duplicate pmy knowledge, information provided in this Animal Compand that no significant changes will be made without adva of personnel training when requested by USDA inspectors	onent of Research Protocol is complete and accurate nce approval of the IACUC. I agree to provide records
Principal Investigator Signature	Date
37. Approval Signatures	
The undersigned have evaluated the care and use of a provisions of the Animal Welfare Act, the PHS <i>Guide for the procedures described are appropriate and acceptable.</i>	the Care and Use of Laboratory Animals, and find that
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	}
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` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
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 durin 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.

APPENDIA 2	TEST SI	JBSTANCES			
(Comple		cable or mark N	/A here 🔲)		
1. Class of the test substances or other A. Radioisotope B. Infectious Agent C. Carcinogen D. Toxic Chemical E. Tissues/Cells F. Adjuvants Class of the test substances or other residual.	ubstance Whe effect justi pogical Agent 06 pyro com	en Non-Pharmaceutical-gcts are not introduced. Explication on a separate doctops://oacu.oir.nih/b14 pharmacelogenicity, osmolality, stabpatibility, and pharmacok	aceutical-grade surade substances are used, xplain if the pharmaceuticacument following the chartagov/system/filesutical compound ility, site and route of admitinetics of the chemical or animals:	, ensure that toxical grade is not ave t guidance locate s/media/file, ds.pdf (Includinistration, formul substance to be a	c or unwanted side aliable and provide d at: //2021- le the pH, lation,
SUBSTANCE NAME	CLASS	DOSE	FREQUENCY	ROUTE	DURATION
3. Will the test substance(s) cause pain NO - PROCEED TO ITEM 4. YES - Describe the measures the			ninimize these ef	fects.	
4. Is the test substance considered to be NO - STOP HERE. YES - Give names of personnel v			naterial then proc	ceed to ITE	M 5:
E. If you are using any radio jectone, or	hozordouo mo	torial of any type	a vou must bays	. outborizet	ion to work wit

5. If you are using any radio-isotope, or hazardous material of any type, you must have authorization to work with these materials by the Director of Environmental Health and Safety. The Director's signature indicates that he has consulted with the Attending Veterinarian, and that adequate precautions, containment facilities, protective devices, carcass and waste disposal, cleanup procedures, and other necessary safety procedures are in place to protect personnel and prevent accidental animal exposure to the hazardous material. Please provide a letter documenting the safety precautions that will be used.

Director, Environmental Health & Safety

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 IT	ΓΕM 2.		
YES - Characterize th integument, or a hollow	ne procedure in the box bel w visceral organ is invasive	ow. [Any procedure that pe	netrates a body orifice, the
Tissue Or Fluid Collected	Method Of Collection	Amount	Frequency
Will the procedure cause m	nore than momentary pain o	or distress?	
NO - PROCEED TO IT	ΓEMS 4 & 5.		
			IE NONE IO TO BE
USED, PROCEED TO		anquilizing agent that will be	e used. IF NONE IS TO BE
Agent	Dose	Frequency	Route
Agent	DOSE	Trequency	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)

1.	Describe the surgical procedures in enough being done to the animal.	detail so that reviewers			ermir	ne what is actually
2.	Who will do the surgery?					
3. 	Pre-operative procedures:		_] Olim Haim		Distinfe at Oita
	Fasting - Length:			Clip Hair		Disinfect Site
	Withhold Water - Length:			Scrub Site		Place Catheter
	Other:					
4.	Preoperative medications: <i>Include sedatives</i>	s/tranguilizers/other pre-a	nes	thetic medica	tions	here.
	rug	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 a	agents?	
7. Describe the methods used to monitor the sta	ate of anesthesia and genera	al well-being:
3. Will the animal subjects regain consciousnes	s following surgery?	
NO - STOP HERE	0 0 7	
YES - ANSWER ITEM 9-15		
9. How long will the animal survive?		
or rion long will all arminal our vivo.		
40 Mill the annual be marked and discount of the second se		0
10. Will the surgery be performed in a room or a	-	ery ?
YES - Identify the location where surgery	y will be performed:	
NO - Explain:		

APPENDIX 4 (continued)				
11. Which of the following	aseptic technique	es will be used?		
Sterile Instruments None: Other:	Gloves [Gown Surge	on Scrub Face	e Mask
12. Will multiple survival s	urgical procedure	s be performed on a si	ingle animal?	
YES - PROCEED	TO 13.			
NO - PROCEED T	O 14.			
laparotomy, thoracot produces substantial or transection (Browr	omy, joint replace impairment of phy n et al. 1993). Min	ement, and limb ampu ysical or physiologic fo or 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, percutaneou
YES - Explain:				
NO - PROCEED T 14. Describe the post-ope the animals:		ling drugs, fluids, and	physical support met	thods, that will be given to
Drug or fluid	Dose	Frequency	Route	Duration
	<u> </u>			
14a. Physical support met	.hods:			
15. Who will be responsib	le for post operativ	ve care?		
An emergency contact ph	one number must	he provided to the WS	SU staff Check here	to indicate that it has bee

provided.

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

PROBLEMS/ADVERSE EVENTS

Describe any unanticipated adverse events $\underline{\text{in the past 3 years}}$ and include morbidity or mortality, the cause(s), if known, and how these problems were resolved. If NONE, this should be indicated.