National Eye Institute

ANIMAL STUDY PROPOSAL AMENDMENT FORM

ASP NUMBER	
AMENDMENT APPROVAL DATE	

6/2018

A.	ADMINISTRATIVE DATA:
	Principal Investigator:
	Animal Study Proposal Title:
	Amendment Title: Modifications to:
	 Section F, Description of Experimental Design and Animal Procedures, REPLACE the description of Rodent Tail biopsy procedure; Section I, Anesthesia, Analgesia, Tranquilization, ADD potential treatment regime for Rodent Tail biopsy procedure and; Section J, Method of Euthanasia, CHANGE the CO2 flow rate into the euthanasia chamber
	ANIMAL REQUIREMENTS: Check if No Additional Animals are Required Species Age/Weight/Size Sex
	Stock or Strain
	Source(s)
	Number
	TRANSPORTATION AND HOUSING: Check if No Change (This section must be addressed if there are any changes in transportation or housing.)
	PURPOSE OF AMENDMENT: (Briefly explain the purpose of the amendment and how the proposed changes fit the objectives of the original ASP.)
	JUSTIFICATION FOR NUMBER OF ANIMALS REQUESTED: Check if No Change (You must provide numbers justification for any additional animals.) 1) Explain your rationale for animal use.

	justify why this study only uses animals of the same sex in all experimental gronecessary).	oups. (Use additio	onal sheets if
F.	DESCRIPTION OF EXPERIMENTAL DESIGN AND ANIMAL P. (Briefly explain the experimental design and specify all animal procedures. The ACUC to understand the experimental course of an animal from its entry into the study.)	is description sho	ould allow the
	Replace the description of Rodent Tail biopsy procedure with:		
	The NEI Rodent Tail biopsy policy will be followed. Alternatively, tail Technical Request, by the Animal Facility Holding Personnel in accordance ACUC-approved SOPs.		
	SURVIVAL SURGERY: (Describe all additional or changes in surgical procedures to be performed. In technique, identification of individuals conducting procedures, post-operative of multiple survival surgeries are proposed, the total number of surgeries must cases where animals will have undergone surgery on previous studies.)	care and monitor	on on aseptic ring, and location.
н.	PAIN OR DISTRESS CATEGORY: (List the category for new animals to be added under amendment. IF AN COLUMN E, A SCIENTIFIC JUSTIFICATION IS REQUIRED. PLEASE EXPLANATION FOR COLUMN E LISTINGS FORM AT THE END OF FORM WILL ACCOMPANY THE NIH ANNUAL REPORT TO USDA.)	E COMPLETE	IDICATED IN THE
	Category	Number of Animals	
	USDA Column C Minimal, Transient, or No Pain or Distress		
	USDA Column D Pain or Distress Relieved By Appropriate Measures		
	USDA Column E Unrelieved Pain or Distress		
	(Describe your consideration of alternatives to procedures listed for Column L	and E that mav	cause more than

2) Justify the appropriateness of the species selected. 3) Justify the number of animals to be used. 4) If applicable,

(Describe your consideration of alternatives to procedures listed for Column D and E that may cause more than momentary or slight pain or distress to the animals, and your determination that alternatives were not available. [Note: Principal investigators must certify in paragraph N. 5. that no valid alternative was identified to any

described procedures which may cause more than momentary pain or distress, whether it is relieved or not.] Delineate the methods and sources used in the search below. Database references must include databases (2 or more) searched, the date of the search, period covered, and keywords used. Keywords must relate to the procedures and treatments with a potential to cause pain and/or distress. Please indicate the procedure or treatment which resulted in an animal being placed in Columns D or E.)

I. ANESTHESIA, ANALGESIA, TRANQUILIZATION: Check if No Change

(For animals indicated in Section H, Column D, specify the anesthetics, analgesics, sedatives or tranquilizers that are to be used. Include the name of the agent(s), the dosage, route and schedule of administration. All substances administered to an animal, except those routinely considered as food, must be pharmaceutical grade unless otherwise justified in accordance with the NIH ARAC Guidelines for the Use of Non-Pharmaceutical Grade Compounds in Laboratory Animals. and as such may need to consider factors such as grade, purity, sterility, acid-base balance, pyrogenicity, osmolality, stability, site and route of administration, compatibility of components, side effects and adverse reactions, storage, and pharmacokinetics.)

For tail biopsies of approximately 0.2 cm of the terminal tail in mice or rats between 10-28 days of age:

- Topical anesthesia: regional hypothermia using ice-cold ethanol
- Lidocaine-Epinephrine-Tetracaine gel (L.E.T.) (4%/0.05%/0.5%, Wedgewood Pharmacy), For tail biopsies of approximately 0.2 cm of the terminal tail in mice or rats >28 days of age:
 - General anesthesia:
 - o Isoflurane 1-3%, to effect;
 - o Ketamine/xylazine, 70-100 mg/kg Ket/5-10 mg/kg Xyl
 - L.E.T. gel
 - a <u>single dose</u> of a systemic analgesic

For Mice:

- Meloxicam: Mice mg/kg BW SQ or PO q24hr
- o Carprofen, 5 mg/kg BW, SO or PO q24hr
- Ketoprofen, 5 mg/kg BW, SQ q24hr
- o Buprenorphine, 0.05 mg/kg BW, SQ q24hr

For Rats:

- o Meloxicam: 2 mg/kg BW SQ or PO q24hr;
- o Carprofen, 5 mg/kg BW, SQ or PO q24hr
- o Ketoprofen, 5 mg/kg BW, SQ q24hr
- o Buprenorphine, 0.05 mg/kg BW, SQ q24hr
- If oral dosing via the water bottle is preferred, Carprofen 0.025 mg/ml drinking water may be used for both rats and mice.
- Alternatively, Buprenorphine sustained release (SR) 0.6 mg/kg BW SQ for mice and 1.3 mg/kg BW SQ for rats, will provide up to 72 hours of analgesia.

For mice or rats of any age requiring a second tail biopsy or a biopsy of >5 mm

- General anesthesia, either with isoflurane or ketamine/xylazine
- L.E.T. gel
- systemic analgesic for one to three days post biopsy, see list above

J.	(Indicate the proposed me administration. If the meth	1 / 2	t is used, specify t those not recomm	
				Check if No Change
				20 Edition effective 1-15-2020, cage volume/min to 30-70% of
	USE OF HAZARDOUS	ACENTS.		Check if No Change
13.		requires the approval of an	IC safety specialis	· -
	Biological Agents with Pat	hogenic Potential:		NONE (check if none)
		HS Biological Safety and Comp		
		t language or attach a copy of		
	Agent: PRD #:	A	BSL:	
	Additional occupational heal	lth and/or animal facility hand	ing safety considera	ations.
	Recombinant DNA:			NONE (check if none)
		elines for Research Involving	ecombinant or Syr	\
	For guidance, see NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules FAQs. Include the NIH Institutional Biosafety Committee's risk-assessment language or attach a copy of the			
	registration documents.	tational Brosurety Committee	TISK dissessificate to	inguage of attach a copy of the
	Recombinant DNA:	RD #:	AB	SL:
	Additional occupational health and/or animal facility handling safety considerations.			
		nuclides & radiation produc		NONE (check if none)
		Policies/Radiation Safety Pro		
				experimental procedures on the an irradiator is to be used, then
				an irradiator is to be used, then the for irradiator training, and all
		nply with applicable security re		
	approval.	ipij with applicable security is	quirements for esci	orts and proxy card access
	List of Radionuclides:			
	Radiological safety consider	ations:		

For guidance, see NIH Policy Manual 3034 – Working with Hazardous Chemicals Material safety data sheets for hazardous chemicals and drugs must be maintained readily accessible to laboratory and animal facility employees (Title 29, Part 1910.1200(b)(3)(ii), CFR) List of Agents: Additional occupational health and/or animal facility handling safety considerations: L. BIOLOGICAL MATERIAL/ANIMAL PRODUCTS FOR USE IN ANIMALS: (List cells/tissues, sera/antibodies, viruses/parasites/bacteria, and non-synthetic biochemicals that wi be introduced into research animals.) Check if No Change Material: Source: Sterile'	Hazardous Chemicals or Drugs:		NONE (che	eck if none)	`
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Laboratory/Branch Chief, certification of review and approval on the basis of scientific merit and sex a	Laboratory/Branch Chief certificat	tion of review and approval or	n the basis of scientific mer	it and sev	26
biological variable. (Note: Scientific Director's signature required for proposals submitted by a Laborator					
or Branch Chief):		Director & Signature required	101 proposais submitted by	a Laborat	or y
NameSignatureDate	Name	Signature	Date _		

Safety Representative, agents):	certification of review and concurrence (R	equired of all studies utilizing hazardous
Name	Signature	Date
Radiation Safety Representation safety Repre	esentative, certification of review and cond	currence (Required of all studies utilizing
Name	Signature	Date
Facility Manager, certi	fication of resource capability in the indica	ated facility to support the proposed study
NameCOMMENTS:	Signature	Date
Facility Veterinarian,	certification of review:	
Name	Signature	Date
Attending Vatarinaria	n certification of review:	
Attending Veterinaria	n, certification of review:	
Name	Signature	Date
N. FINAL APPROVA	L:	

NEI Animal Care and Use Committee Chairperson, certification of review and approval:

Name	Signature	Date

