Topaz Electronic Protocol Development Information on Filling out the UCHC Protocol Form

Companion Document to "Topaz Electronic Protocol Development Instructions for Researchers"

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THE ACC ANIMAL CARE AND USE PROTOCOL FORM

- 1. Administration Section
 - a. Title

Enter the title of your protocol. Do not use the enter button when you are finishedsimply click on the save button.

b. Protocol renewal information

Select if this project is a new protocol or a 3 year renewal. If it is a 3 year renewal, place the old ACC number in the spot provided.

c. Principal Investigator

If you are **NOT** the PI, select the PI now. Click on the person symbol with the green + on it (green arrow) and select the PI as described in (d) below.

d. Protocol Associates

One of the first items you will come to is entering personnel. To add personnel, you will need to click on the + symbol (red arrow).



When you do this, a list will come up. Make the number default 1,000 (it automatically is set at 100 [yellow arrow]). Then start entering the person's name (first or last) in the filter box (green arrow). Select the individual by clicking on the green circle with the white + sign (red arrow). **DO NOT DOUBLE CLICK ON THE PERSON'S NAME**. Repeat this process (entering names in the filter) with every individual you need to add to the protocol. When you have selected everyone you need, click the OK button (blue arrow).



The individuals will then be generated in the protocol. The first thing you will need to do is to put their responsibilities for what activities they will be performing on live animals in the document (red arrow). After that, you will be able to make them either co-investigators (yellow arrow) or key personnel (green arrow) if you chose to do so. This gives them different rights to the protocol.

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Filter Outline 1.2 +	Verdana + 12 + B I <u>U</u> - 信任 日 日 田 小 小 交 工	
1 Administration	Protocol Associates	+0 ^
2 Project Overview	Click green plus sign to add research personnel.	
3 Animal Subjects	Bose, Tina	*
4 Surgery	Co-Investigator 🗌 Key Associate	
1 5 Transgenic and Gene-Targeted (Tg/GT) Animals	Rez viities all de d procedures except surgery	
6 Protocol Checklist	hments	
7 Clinical Outcomes		
8 Minimizing Pain and Distress	🗊 🖵 pitts, Sara	*
9 Disposition of Animals at the End of the Project	Co-Investigator Associate	
10 Hazards and Compliance	Responsibilities all described procedures except surgery	
11 Principal Investigator's Assurances	Comments	
12 Office Use Only	Fu, Han-Hsaun Co-Investigator	*
	Gumpenberger, Kristina Co-Investigator	*
	😈 Jellison, Evan	* .

Co-investigators- will have the same rights as a PI. They will be able to create and edit protocols **IF THEY HAVE BEEN GIVEN THAT PRIVILEGE BY THE ACC OFFICE IN THE TOPAZ SYSTEM**. Simply making them co-PIs on your form is not enough. However, if they do have the access rights to create protocols, they will not be able to edit your protocol unless you check the co-investigator box.

Key personnel- will be sent all associated emails generated by the system along with the PI.

Neither box checked- individual will be able to view approved protocols on which they are listed.

If you forget this, not to worry. If you see a blue ? button (red arrow) in a question box, that means additional information regarding that question is available for you to look at. A help box will generate (show below) with the information.

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Filter Outline		
1 Administration	Portable User Inte • 12 • B I U Δ • Ε Ε Ξ Ξ Ξ Φ Φ Φ Δ • ૨ Σ	÷ 😔
(#) 2 Protect Overview	When you add Associates, you will be prompted with two additional check boxes to assign to	
II 3 Animal Subjects	your Associates (Co-Investigator and Key Associate). (86)	0) 679-4129
a 4 Surgery	Co-Investigators have the same access privileges as the PI.	
iii 5 Sequence of Experimental Procedures	Key associates can be set up to receive protocol related email messages. Key associates are	
6 Transgenic and Gene-Targeted (Tg/GT) Anir	NOT automatically authorized to order animals. They would need to be added in the national "Associates authorized to order animals" field	
7 Protocol Checklist	Factbacker addressed of the annuals med.	
8 Clinical Outcomes	If heither box is checked - the personnel will only have the ability to view the approved protocol.	***
9 Minimizing Pain and Distress	If the name you want to select does not appear in the drop down box as an option, you must	pcol.
10 Disposition of Animals at the End of the Pr	ojet contact the ACC office at ooacc@uchc.edu to add the name.	
11 Hazards and Compliance		
12 Principal Investigator's Assurances	the second se	
13 Office Use Only	Close	
	Grant Applic	cation" column, indicate If Funded,
	In Peer Review, Just In Time, or Other/a non-peer review source (e.g. start up funds or depu	artmental resources).
	Add Row	
	Funding/Grant Status of Funding/ Source (from Grant Application Grant Number (if (grant Number (if known)	
	applicable)	
	Study Initiation	ØE
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252544	Challenet TopA7	Carlos Medres

e. Associates authorized to order animals

Select any person that you want to be able to order animals on this protocol. This can include departmental administrators and research personnel. Do this step just like (d) above. You do **NOT** have to put in the responsibilities in this section. If someone is listed in the protocol associates box, you will still need to list them in this section if they are to order animals.

f. Funding/Grant Source

You will need to select the funding source. Click on the + button (red arrow).

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Filter Outline 1.2 +	Verdana	• 12 • B I U	经济资源和专业	Q L	
1 Administration	Funding/Grant So	urce			
Title	Select Funding Se	ource(s).			
Reference Number	O UCHC Start Up F	Funds			
Protocol Number	National Institution	ites of Health/DHHS			
Created By					
Principal Investigator	Funding Details	Funding Details			
Protocol Associates	Using the Table b	elow, enter relevant fundin	g information. For the "State	is of Funding/Grant Applicatio	on" column, indicate If Funded,
Associates Authorized to Order Animals	In Peer Review,	, Just In Time, or Other/	s non-peer review source (e.g. start up funds or departn	tental resources).
Funding/Grant Source	Add Row				
Funding Details	Funding/Gran	Status of Fundi	ng/ Funding Source/ Grant Number (if	ORSP Log Number	
Study Initiation	above)	Grant Application	applicable)	(if known)	
Accounts	UCHC start u	p funds Funded			
1 2 Project Overview	NIH R21	Funded	AR057990-01		
3 Animal Subjects		1 Sector		500 T	
4 Surgery	Study Initiation				
Sequence of Experimental Procedures	Will any animal w	ork be performed prior to p	eer review? If no peer review	v is performed by the funding age	incy, select yes below.
6 Transgenic and Gene-Targeted (Tg/GT) Animal	· No				
1 7 Protocol Checklist	O Yes	C Yes			
E Clinical Outcomes					
9 Minimizing Pain and Distress	Accounts				+
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		and the second se			

This will generate a list from which to choose. Select your funding sources by clicking on the green circle with the plus sign (red arrow). If you don't see your selection, you can do one of two things: you can call the ACC office (x3429) and ask to have the source added to the list or you can select "other".



g. Funding Details

You will first need to click on the + sign (red arrow) to add a row.

Outline *207	Animal Care and Use	Protocol 20100802			1.2
Filter Outline	Verdana - 1	2 · B I U · E	15 IF IF IF OF OF	22	(Bartel) and
1 Administration Title Reference Number	Funding Details Using the Table below, In Peer Review, Just	enter relevant funding infor In Time, or Other/a non	mation. For the "Statu -peer review source (is of Funding/Grant Applicati e.g. start up funds or departr	on" column, indicate If Funded, nental resources).
Protocol Number Created By Principal Investigator	Funding/Grant Source (from above)	Status of Funding/ Grant Application	Funding Source/ Grant Number (if applicable)	ORSP Log Number (if known)	
Protocol Associates Associates Authorized to Order Animals Funding/Grant Source	Study Initiation Will any animal work be	performed prior to peer re	view?		•
Funding Details Study Initiation Accounts	No Yes				
2 Project Overview Lay Summary 3 Animal Subjects	Accounts Select the FRS account(s) being used with this project.				
Species 4 Surgery Surgical Procedures					
 5 Transgenic and Gene-Targeted (Tg/GT) Animal Tg/GT Animal Use 6 Protocol Checklist 					

In each row, put the name of the funding source that you entered in section (f) above. Then complete the table. You **MUST** enter either the Grant Number or the ORSP Log number in the table.

h. Study Initiation

You need to inform the committee if any animal work will be done prior to peer review. If you are going to start your work before you have funding, you need to select **YES** and then provide the name of a potential scientific reviewer not associated with the protocol. If you are not going to start your work before you have funding, you need to select **NO**. If you are obtaining funding from an agency that does not perform peer review (e.g., departmental funds, pharmaceutical companies, etc.) you need to select **YES** and then provide the name of a potential scientific reviewer not associated with the protocol.

i. Accounts

You will need to select what FRS account is associated with this work. You will need to click on the + button to select your account (red arrow). When you do this, a list of FRS accounts will generate. You will need to select the FRS account(s) to use by clicking on the green circle with the white + (blue arrow). If an account is not listed, you will need to contact Comparative Medicine (x2731) to get it added.

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🗸 Open Approved Protocols 🔹 🔡 🤮	ay compare a submet	t.		
Outline 2000000000000000000000000000000000000	₩ 100018-0813 12 - 12			
1 Administration 2 Project Overview 3 Animal Subjects	Accounts Select the FRS account(s) being used with t Items Selector	his project.		
4 Surgery 5 Transgenic and Gene-Targeted (Tg/GT) Animals	Add ALL >>	<< Remove ALL) ØE	
	Name 4-02086	Name	▲ A labelt, the advancement of knowledge, or knowledge with would like move information, please click on the would like move information, please click on the seases such as multiple sclerosis, arthritis and informatic scheme single advancement of average of the single scheme single scheme size of the size of the size of the scheme size of the size	
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2. Project Overview

You will need to give a brief overview of your project which describes what you are doing, the purpose of the study, and its potential value to human or animal health, the advancement of knowledge, or the good of society. This has to be done in lay terms; that is, terms an average 8th grader would understand.

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1 Administration	2 Project Overview	0 -				
1 2 Project Overview						
1 3 Animal Subjects	Lay Summary					
H 4 Surgery	In Jaymer Agentic describe the purpose of the study as	d its potential value to human or animal health, the advancement of knowledge of				
Transgenic and Gene-Targeted (Tg/GT) Animals Animals Animals Section 2.1	the good ciety. Grant abstracts, undefined acronym	a and jargon are not appropriate. If you would like more information, please click o				
1 6 Protocol Checklist	the help I on. If you would like to see an example of a	lay summary, click on the link above.				
1 7 Clinical Outcomes	[The imm] system can respond to infections in one of two ways: 1) a beneficial immune response can occur and the individual is protected against in hori: this type of reaction may also result in long-term (i.e. lifelong) protection: 2) Infection may also tringer responses against					
8 Minimizing Pain and Distress	one's one source and the second					
9 Disposition of Animals at the End of the Project	of the cell types responsible for these reactions is the T	of the cell types responsible for these reactions is the T (thymus-derived) implocyte. Under normal circumstances, the immune system				
10 Hazards and Compliance	such as that found in the intestine, represents a critical	barrier to invasion by environmental and pathogenic microbes. In the intestine, the				
11 Principal Investigator's Assurances	symbiotic relationship between bacterial flora and muco	a represents a delicate balance between health and disease. In this tissue,				
남 12 Office Use Only	controlled innammation is the norm in which the immu- autoimmunity. However, this delicate balance can be pe- funded projects with the following broad goals: 1) under lymphocytes; 2) Understanding the rules governing mig- interleukin 15 in generation and maintenance of memor regulating the immune response to infection and 5) Und self-tolerance. This work has potential value for human health as it see mounted but also how tolerance to self is maintained. Th reference	Turbled by infection or other disturbances. Our work is focused on 5 interrelated standing the requirements for development of immunological memory mediated by T ration of effector and memory T cells; 3) Understanding the role of the cytokine / CDB T cells; 4) Understanding the role of CD11c and other beta2 integrins in estanding the mechanisms that distinguish between the induction of immunity verus estanding the mechanisms by which not only proetcive immune responses are hus, this work could lead to novel vaccine strategies or treatments for autoimune				
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If you are unsure of what to write, information can be found in the information button (green arrow). Or, to see an example of what is expected, click the link provided (yellow arrow).

3. Animal Subjects

a. Species

You will have to select the species to be used. Simply click on the + sign (red arrow) and a list of potential species will generate. Click on the green circle with the white + to select your species (blue arrow). Do **NOT** click on the species itself; you **MUST** click on the symbol.

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1 Administration	Species	•÷•			
2 Project Overview	Click green plus sign to add species.				
Lay Summary					
- 3 Animal Subjects	4 Sur Species	* × –			
Species	Add All >>	<< Remove Al I			
- 4 Surgery	Surg	* =			
Surgical Procedures	Are s Name Name	ie in the second se			
5 Transgenic and Gene-Targeted (Tg/GT) Animal	NOT Fish	r staples for closure)			
Tg/GT Animal Use	Frogs				
6 Protocol Checklist					
Protocol Checklist	United Figs				
7 Clinical Outcomes	A Description				
Animal Monitoring	5 Tra				
🔲 8 Minimizing Pain and Distress	TalG				
Objective criteria	Are y				
Procedures used to Minimize Pain and Distress					
9 Disposition of Animals at the End of the Project					
Disposition of the Animals					
10 Hazards and Compliance	60				
Use of Hazardous to Human Materials in Anima	UTIU	OK Cancel			
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b. Rationale for the Use of Animals

You must provide a rationale of why you are using living animals. Select whatever box(es) are appropriate. If you chose "other", a question box will generate and you will need to explain what the other rationale is. **PLEASE NOTE**: if you have selected multiple species, you will have to answer this question for each species.

c. Rationale for the Appropriateness of the Species to be Used

You must provide a rationale of why you are using the species you chose. Select whatever box(es) are appropriate. If you chose "other", a question box will generate and you will need to explain what the other rationale is. **PLEASE NOTE:** if you have selected multiple species, you will have to answer this question for each species.

d. Strain

You have the opportunity to select the strain(s) you are planning to use. This is optional. You would select your strain exactly as described in section (a) above. e. Rationale for Requested Animal Numbers

You must provide a justification for animal numbers; this is required in the regulations. This is a free-text field that you can copy and paste into if you wish to.

PLEASE NOTE: the easiest way to copy and paste information in any section is to copy text from your document (Word, etc.) and paste it into NotePad or WordPad to remove the formatting. Then paste from NotePad or WordPad into Topaz.



If you are unsure how to get animal numbers, you can check out the help we have provided by clicking on the links (blue arrow). You can also attach additional information. For instance, say you have a table which lists your experimental parameters and animal numbers requested. Tables will NOT copy into free text fields. You can easily attach your records by clicking on the paperclip icon (yellow arrow). When you do this, a dialogue box will generate. Click on the paperclip to attach documents (red arrow). In the text box (yellow arrow), give the name of the document. Attach it by using the "Browse to File..." icon (blue arrow).



f. Authorized Amounts

You **MUST** enter the amounts you need in each pain category. When you click on the + symbol (red arrow), a line will generate (blue arrow). You must select the stress category from the pull down menu (green arrow) and put the number of animals requested in the requested column (yellow arrow). You need to have one line per stress category for each species. If you are unsure of a pain/distress category, this information is given to you if you click on the information button (purple arrow).



g. Alternatives to Painful Procedures- Literature Search

If you are using pain/distress categories D and/or E, you **MUST** complete the alternatives to painful procedures section. Most people do a literature search to fulfill the search requirement. If you perform a search, then you need to fill out the table in this section. Click on the + button (red arrow) to add a row. Each painful procedure **MUST** have its own row. Complete the table with the information requested.

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1 Administration Title Reference Number Destand Number	Alternatives to Painful Pro For D and E pain categor search was employed.	ocedures- Literature Searc y procedures, a search fo	h r alternative to painful r	procedures must be perfo	rmed. Complete the table if	a literature
Created By	Painful Procedure	Date of Literature	Years Searched	Databases Used	Search Strategy	
Principal Investigator	Thoracotomy	March 1, 2011	1960-2011	Medline, Agricola	thoracotomy	
Protocol Associates	*			risenal righters	alternatives, mice	
Associates Authorized to Order Animals	President and a second			- Alter		-
Funding/Grant Source	Alternatives to Painful Pre	ocedures				-
Funding Details	Example regarding the di	iscussion of replacement,	reduction, and refineme	Int		
Study Initiation	potentially painful/distres	ssful cedures are not a	vailable. The following	or the methods and sour areas must be addressed	ces used to determine that a :	liternatives to
Accounts	Reduction- the number	of a als used must be	the minimum necessary	to achieve scientific goa	ls;	
2 Project Overview	Replacement- non-anim	hal relis should be used	f if they are available.	ware to the solesle must	ha considered, procedures	should be use
Lay Summary	that have the least amou	int of potential pain, disco	mfort, distress or morb	idity.	be considered, procedures	silvulu pe use
3 Animal Subjects	If alternatives to the use	of live animals and/or if a	Itematives to painful/d	istressful procedures exis	t, but were not chosen, expl	ain the reason
	for not using the alternat	ives.	neer neer to participat	an open a process of and	d par more not enough out	
- Species	The second s					
Species Mice #1						
Species Mice #1 Rationale for the Use of Animals						
Species Mice #1 Rationale for the Use of Animals Rationale for the Appropriateness of the Spec						
Species Mice # 1 Rationale for the Use of Animals Rationale for the Appropriateness of the Spec Strain	Pain/Distress Category E	sedura(e) within axis est	encov classification 5	rouide the name of the u	eterinarian you consulted ui	th during the

Specific Information on Protocol Sections

h. Alternatives to Painful Procedures

Even if you used a literature search as your alternatives search method, you **MUST** complete the section. If you did something other than a literature search, this section must contain what you did (e.g., consultation with an expert in the field, standard practices in a reference book, etc.). **PLEASE NOTE**: if you did something other than a literature search, you must provide all pertinent information so the IACUC can determine if your search method was adequate (e.g., qualifications of an expert and when the discussion happened and what was discussed). You also need to discuss the 3R's of replacement, reduction, and refinement. If you are unsure of what to write in this section, click on the link provided (green arrow above) and look at the example.

i. Pain/Distress Category E

If you are using pain/distress category E, you **MUST** provide the name of the veterinarian you consulted with during the **PLANNING** of the experimental procedure(s). This does not have to be the UCHC attending veterinarian; however, if it some someone other than the UCHC attending veterinarian, you must provide contact information.

j. Non-surgical Procedures

You need to select what non-surgical procedures you are going to perform to the species. Click on the + button (green arrow) to add your non-surgical procedure.

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	ry Garagen Frenderst Salard Signal Astron		
Outline *207	🖉 Animal Care and Use Protocol 20100802	*	
Filter Outline 1.2 +	Verdana - 12 + B 7 U - 15 15 = 3 3 45 40 1 - 12 5		
1 Administration	Pain/Distress Category E	3	
Title	If you are performing procedure(s) within pain category classification E, provide the name of the veterinarian you consulted with during the		
Reference Number	planning of the procedure(s).	-	
Protocol Number		-8	
Created By		0	
Principal Investigator	Non-surgical Procedures The questions helders refer to pro-surgical properties to be performed on this species.	2	
Protocol Associates			
Associates Authorized to Order Animals	Non-survival Provedures	3	
Funding/Grant Source	UCHC non-surgical procedures		
Funding Details	Select all non-surgical procedures you will be performing to the species listed.		
Study Initiation			
Accounts	4 Surgery		
2 Project Overview			
Lay Summary	Surgical Procedures		
3 Animal Subjects	Are surgical procedures performed?		
Species	NOTE: Surgical procedures are defined as those which expose any body cavity or tissues (requiring sutures, adhesives, or staples for closu		
Mice #1	or causes substantial physical impairment (e.g., a fracture).		
Rationale for the Use of Animals	○ No		
Rationale for the Appropriateness of the Spec	Ves.		
Strain			
Other Strain/Line	5 Transgenic and Gene-Targeted (Tg/GT) Animals		

Once you do this, a list of procedures will generate in a dialogue box. Select your procedure(s) by clicking on the green circle with the white + symbol (red arrow); do **NOT** click on the procedure name. If your procedure is not listed, then click the "other" button. Then select the OK button (yellow arrow). Repeat this process for every non-surgical procedure you will do to the animals.



Specific Information on Protocol Sections

k. Procedures name

If your procedure is not listed and you had to select "other", please provide a brief descriptive name in this section.

I. Room Location

You must select the room location(s) where this procedure will be performed. Click on the + button to generate a list of room numbers (red arrow).



A list will populate. Select all room location(s) in which this procedure will be performed by clicking on the + symbol (red arrow) by the room location. If the room location(s) is not in the list, please call the ACC office (x3429) to get it added.

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Outline	Filter	* ×	1.2 - *
Inter Outline I definition 1 Administration 2 Project Overview 3 Animal Subjects Image: Constraint of the procedures 5 Sequence of Experimental Procedures Image: Constraint of the procedures 6 Transgenic and Gene-Targeted (Tg/GT) Animals Image: Constraint of the procedures 9 Minimizing Pain and Distress Image: Constraint of the Project 10 Disposition of Animals at the End of the Project Image: Constraint of the project 11 Hazards and Compliance Image: Constraint of the project 13 Office Use Only Image: Constraint of the project	Add ALL >>	<< Remove ALL	<pre>image control in the second seco</pre>
Done	minstered in an enclosed dissicator via 1mL ap ch with tissue forceps. Bleeding will be contro	OK Cancel prication to clean gauze. Full anesthesia i led using silver nitrate applicators (Grafco	comfort. Upon returning to their cages, mice a bleeding is normally minimal; however, silver will be briefly anesthetized with isoflurane defined as a lack of response to tail or hind paw # 1590).

m. Procedure Description

When you get down to procedure descriptions (red arrow), you have some options. You can check our non-surgical procedures that are on the web to see if your procedure is there by clicking on the link shown below (purple arrow). We have some procedures written out- you can copy them and paste them into the procedures description section (red arrow) and modify as required. If your procedure is not on this list, then you will have to describe the procedure. **The important point is to be complete**. If you are injecting cells or other things, be sure to include how many, in what volume, what route, etc. If you expect that the procedure may involve significant morbidity or mortality, state here what is expected.

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1 Administration	Non-surgical Procedures	+0 🗃 🏅
2 Project Overview	UCHC non-surgical procedures	
+ 3 Animal Subjects	Select on-surgical procedures you will be performing to the species listed.	
+ 4 Surgery	© Gen ing-Tail biopsy	
1 5 Sequence of Experimental Procedures	© Perf	
🗄 6 Transgenic and Gene-Targeted (Tg/GT) Animals		
1 7 Protocol Checklist	3.1.1.11.1 Genotyping- Tail biopsy	= *
1 8 Clinical Outcomes		
1 9 Minimizing Pain and Distress	Procedures Name	•
10 Disposition of Animals at the End of the Project	If you selected "other", provide a brief descriptive name for the procedure being performed.	
11 Hazards and Compliance		
12 Principal Investigator's Assurances		
13 Office Use Only	Room Location Select all rooms in which this procedure will be performed. If the room number is not listed, call the ACC o location added to the list.	ffice at x4129 to have the room
	© E-4053	
	© CCM Tower Animal Holding Room	
-	Procedure Description Use the link above to copy the description of the procedure. If there are any modifications from the existin in detail. If there is no link to the procedure you will be performing, describe it here.	Ig template procedure, explain this
	cincle-adned rearror bladee. This is a mild ranid procedure, and animals evolution a little discomfort. Those	returning to their cages mice

n. Drug/Chemical Administration and Drug/Chemical and Use of Avertin

If you are using any drugs in your procedure- anesthetics, analgesics, experimental compounds, etc. then you **MUST** check yes in this section. When you check yes, a table will generate. You will need to fill out the table **COMPLETELY**. In addition, if you are requesting to use 2,2,2-tribromoethanol (Avertin), then you must complete the question on the justification for the use of this non-pharmaceutical grade compound.

- 4. Surgery
 - a. Are you performing surgery

This is a mandatory question which must be answered in order to submit the protocol for review. Simply check the YES box or the NO box. If you check the NO box, no further questions will generate. If you check YES, you will need to continue.

b. Type of surgery

You will need to select the type of surgery for each surgical procedure you are performing- major survival surgery (red arrow), minor survival surgery (blue arrow), and/or non-survival surgery (yellow arrow). If you do not know what type of surgery you are performing, click on the information button (orange arrow) and a help box will generate and give you that information (green arrow).



If you select that you are performing major survival surgeries, it will ask you if you are performing multiple major survival surgeries (red arrow) and you will click either yes or no. If you are, you will need to state the justification (blue arrow) and time interval between the surgeries (green arrow).



Specific Information on Protocol Sections

c. Surgical Procedures

Once you select the type of surgical procedure you are doing, you will have to select the procedure itself. In the surgical procedures section (red arrow), you click on the + to add your procedure (yellow arrow). A list of procedures will generate. You click on the white + in the green circle (blue arrow) to select your surgery then hit OK (green button). If your surgery is not there, select "other". You will need to select **EACH** surgical procedure you are performing and answer the questions that will generate for each procedure. If none of your procedures are listed, select "other-1", "other-2", etc. using a separate "other" for each procedure.

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4 Surgery Surgical Procedures	Check all procedures that apply.			ie nature
Yes Type of Surgery Major Survival (defined as any surgery that	Animals used in this protocol manipulation. Food deprivation (>24 hours) Food or fluid restriction	other than pre-operative surgical preparation.	OK	Cancel
Done			Succal intranet	√2 + € 100% +

d. Surgical Procedure Name

When you select your procedure, it will ask for a name. This should only be answered if you had to select an "other" as a procedure. Provide a brief descriptive name for the procedure.

e. Room Location

Then you will have to select the room location(s) this surgical procedure will be performed in. Select the + button (red arrow) to generate a list and then click on the white + in the green circle (yellow arrow) to select each room. Then hit OK (blue button).

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1 Administration 2 Project Overview 3 Animal Subjects	Surgical Procedure Name If you selected "other", provi Items Selector Filter Filter	• *
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	Surgical instruments (e.g., s Telemetry transmitters with Surgester U be reformed i	DK Cancel Jacov

f. Species

Next you will have to detail what species this surgical procedure will be performed on. If it will be performed on multiple species, mention all species.

g. Pre-operative Preparation

Next you will to describe the pre-operative preparation and pre-operative analgesics to be used. Describe the pre-operative preparation in detail in the section. If your surgical procedure is on our list of surgical procedure descriptions (blue arrow), you can copy and paste the relevant information from our web document to this protocol form (yellow arrow). **BE COMPLETE** and describe **ONLY** the pre-operative preparation of the area, the surgical instruments, the surgeon, and the animal. Operative details, e.g., how the procedure itself is performed, comes later.

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Protocol Associates	If you selected "other", provide a brief descriptive name for the surgical procedure being performed.	
Associates Authorized to Order Animals		
Funding/Grant Source		
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Study Initiation	Select all rooms in which this surgery will be performed. If the room number is not listed, call the ACC office a	t x4129 to have the room
Accounts	location added to the list.	
2 Project Overview		
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3 Animal Subjects	On what species will this surgical procedure be performed?	
Species		
- 4 Surgery		
Surgical Procedures	Pre-operative Preparation	-
E Yes	Describe in detail the preparation of surgical area, instruments, surgeon, and animal.	
Type of Surgery		

Specific Information on Protocol Sections

h. Pre-operative Analgesics

You will need to state if you are using pre-operative analgesics. You simply check on the appropriate box (red arrow). If you choose "other", then you will have to detail the analgesic to be used. You would need to click on the + (yellow arrow) to add a row to the table that will generate and complete the table for the analgesic to be used (blue arrow). If you choose "none" (purple arrow), then you will need to justify not using pre-operative analgesics in a question that will generate (not shown).

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Protocol Associates	Select the analgesics to b	e used.				
Associates Authorized to Order Animals	Buprenorphine - Provi	de 1/2 the total do	se of 0.05-0.1mg/kg SQ or I	M - MICE/RATS		
Funding/Grant Source	Buprenorphine - Provi	de 1/2 the total do	se 0.02-0.05mg/kg IM - RAB	BITS		
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🖃 Yes	Name of Analgesic	Dosage	Administration	Frequency of Use	Administered	
Type of Surgery						

i. Anesthesia

Next you need to detail the anesthesia you will use. Simply select on the box which details what you will use (blue arrow). If you select other, you will need to add it as described in (h) above. If you choose Avertin, you will have to justify its use.

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Lay Summary 3 Animal Subjects Species	Other Complete the table for all other anest	hetics to be used.			
4 Surgery Surgical Procedures Yes	Name of Anesthetic Dosage	Route of Administration	Frequency of Use	Volume to be Administered	
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Specific Information on Protocol Sections

j. Operative Details

This is where you put all the details of the surgical details itself. If your surgical procedure is listed in our collection of details on the web (see g above), then you can copy the information and paste it in here, modifying the document as required. This section **MUST** be complete. You **MUST** include the methods and materials for ligatures and wound closures. Include how instruments are sterilized between animals.

k. Post-operative Care

In this section, you must include information of how you are going to monitor for normal recovery from anesthesia and the provision for any supportive care. This should be the immediate post-operative period (e.g., first 24 hours). In addition, include when suture/wound clips will be removed.

I. Post-operative Analgesics

You need to describe the use of post-operative analgesics and this is done exactly as described in (h) above. The only addition is that you will also have to state for how long and how frequently the analgesic will be administered.

5. Sequence of Experimental Procedures

This is the section where you explain how all your different procedures fit together so that the committee understands what you are doing. The timing between various procedures and surgeries is important to understand, so take care when filling out this section. If you are unsure as to what is required, click on the help button (red arrow) and a help screen will generate to give you an idea of what is required.

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1 7 Protocol Checklist	6 Transports and Cons Tawasted (Te/CT) Animals	
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10 Disposition of Animals at the End of the Project	Are you using Transgenic/Gene-Targeted (Tg/GT) animals?	
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	7 Protocol Checklist	
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	Check all procedures that apply. At least one box must be checked. Death as an endpoint (the natural death of the animal is required and moribund animals will not receive very of the experiment).	eterinary care due to the nature
	Animals used in this protocol will develop acute or chronic illness, disease, or physiologic deficits spontane manipulation.	ously or through experimental
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	Food or fluid restriction.	
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- 6. Transgenic and Gene Targeted (Tg/GT) Animals
 - a. This is a mandatory question- it must be answered in order to submit your protocol for review. If you select no, you are finished with this section. If you select YES, then a series of questions will be asked.

PLEASE NOTE: this is a complicated section so you are going to have to **READ ALL INSTRUCTIONS CAREFULLY**.

ALSO PLEASE NOTE: if you are using a Tg/GT animal that has not been registered, you will need to register it, but this does not have to happen prior to protocol submission or approval. However, your animal cannot be made until you complete this section, which you can do as a modification to the protocol at a later date. If you have any questions with this section, you should contact the BSO at <u>rwallace@adp.uchc.edu</u>.

b. Tg/GT Information Table

If you are using Tg/GT animals and you answer yes, this table will generate. You will need to complete the table. You will need to click on the + symbol (blue arrow) once for each Tg/GT line you will be using in your protocol- this will generate a row in the table (yellow arrow) for each Tg/GT line.

PLEASE NOTE: there is an internal scroll bar in the table that are hard to see (red arrow). Not all columns show up when you view this in your computer screen, you will have to use the internal scroll bar to show all columns. You will need the information that is listed in section 6.1.2.3 in order to complete this table.



Specific Information on Protocol Sections

- Column 1- Row Number and Tg/GT Line name
 Put in the row number (e.g., first row in table would be 1, second row in table would be 2, etc.) and the common name for the Tg/GT line
- ii. Column 2- Background strain Enter the background strain of your Tg/GT line
- iii. Column 3- Specific genetic modification
 Indicate what kind of modification (insertion, deletion, point mutation, etc.) of
 what gene/sequence is in the Tg/GT animal
- iv. Column 4- From where was the animal supplied
 State who sent the animal and their affiliated institution. If received from a domestic commercial vendor, state the vendor and the catalogue (stock) number of the Tg/GT line.
- v. Column 5- UCHC GMO number (if exists)
 If you have already been assigned a GMO number for this Tg/GT line, enter the GMO number here. If you do not know the GMO number, leave blank.
- vi. Column 6- If no GMO number, put regulatory category (X, Y, or Z below)Enter X, Y, or Z based on the information given in "Tg/GT Animal Regulatory Issues" below the table.
- vii. Column 7- Animal line in column 1 will be crossed with If the Tg/GT line in column 1 will be crossed with another Tg/GT line (which also must be listed in the table), simply add the row number of that animal line (e.g., "row 3").
- viii. Column 8- Cells from animal line will be implanted into
 If cells from this Tg/GT line will be implanted into another animal, list the strain (if not Tg/GT) or the row number of the Tg/GT line of the recipient.
- ix. Column 9- Animal will undergo parabiosis with what line
 If this Tg/GT line will undergo parabiosis with another animal, list the strain (if not Tg/GT) or the row number of the Tg/GT line of the partner.
- x. Column 10- Where was the animal made originally State where the animal was originally made, if known.
- xi. Column 11- Any inserted eukaryotic viral sequences? (Y/N)
 If these animals will be crossed with any other animals that are not of the same background strain or Tg/GT line, the PI must state whether viral sequences are present (Y) or not (N). If animals will not be crossed, leave blank.
- c. Phenotypic Pain or Distress

You will need to state if any of the Tg/GT lines listed are known to be associated with any phenotypic pain and/or distress.

d. Tg/GT Rodent Compliance

This is where you start the registration process for any Tg/GT animals that need to be registered here at the UCHC. This generally includes all Tg/GT mice that are produced in the GTTF and any Tg/GT animal that is coming from a foreign institution or agency. Other rodents may require registration- if you are unsure, please contact the BSO at rwallace@adp.uchc.edu. You would start the registration process by clicking on the + button (yellow arrow) which will generate the row numbers from section (b) above. Select the corresponding row number for the Tg/GT animal line which needs registration by clicking on the green symbol (red arrow) and then hitting the OK button (blue arrow). There should be a corresponding row number for each line that does not have a GMO number. IF YOU DO NOT KNOW IF A TG/GT LINE HAS A UCHC GMO NUMBER, CONTACT THE BSO AT rwallace@adp.uchc.edu PRIOR TO CONTINUING WITH THE REGISTRATION PROCESS.



You need to answer every question that populates. If you need specific help with any question, please contact the BSO at <u>rwallace@adp.uchc.edu</u>.

i. IBC Registration number

Leave blank- once the registration is ready for approval, the number will be enter

ii. List all Grants

List funding source, grant number, and grant title for each grant being used that is not listed in section 1 of the protocol form.

iii. Describe Sequence of Interest

The sequence that is being targeted or expressed must be detailed. If it is from a non-domestic source, a research article or reference describing the animal line must be provided.

iv. rDNA Context

A short summary about the use of the sequence of interest rDNA in the research must be given. A description of what the sequence does must also be provided.

v. Type of genetic variation

Describe how the genome of the animal has been changed (what has been inserted, deleted, etc.).

vi. Specify all inserted sequences

Create a row for each functional element of what has been inserted into the animal (e.g., promoter, protein encoding sequence, polyA sequence, loxP sites, etc.). This is done by clicking on the + sign (blue arrow). Then you will need to complete all columns in the row with the information requested If you are unsure of the accession, gene ID number or database URL (reference to a commercially published sequence), there are links that can help you find this information (red arrow).

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3 Animal Subjects							
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vii. NIH rDNA Guidelines requirements

Leave blank. This information will be provided to the PI by the BSO and can be entered after this is done.

viii. Methods of generation

Check off the method of generation. If "other" is chosen, a dialogue box will generate. Provide a description of how the Tg/GT line is produced in the text field. If viral vectors are used in any of the methods to produce this line, describe them here.

- ix. Sequences from pathogenic agents
 Select yes or no. If yes is selected, a dialogue box will generate. Provide a description of what organisms, viruses, and/or toxins the sequences originate from.
- Sequences that have oncogenic potential
 Select yes, no, or unknown. If yes is selected, a dialogue box will generate.
 Provide a description of any known connection to cancer or other potential harm from the gene products or their absence.
- xi. Viral vectors

Select yes or no. If yes is selected, a dialogue box will generate. Provide the identification of the viral vector and the vector production system.

xii. Foreign/exogenous sequences

Select yes or no. If yes is selected, a dialogue box will generate. Provide a description of proteins or other gene products that will be produced.

xiii. Tg/GT associated pain and distress Select yes, no, or unknown. If yes, a dialogue box will generate. Provide a description of any pain or distress known to be associated with this genotype.

7. Protocol Checklist

This is a mandatory question, which means it must be answered in order to submit your protocol for approval. This is where you would state if you may be doing anything that would require approval due to being an exemption to the USDA AWRs or a deviation from the standards in the *Guide for the Care and Use of Laboratory Animals*. Simply check all boxes that may apply. **AT LEAST ONE BOX MUST BE CHECKED**. You would need to answer all questions on any question that generated based upon whatever box(es) you checked.

If death as an endpoint is selected, a dialogue box will generate. You must provide a scientific justification for the use of death as an endpoint.

If animals used in this protocol will develop illness or disease, a dialogue box will generate. You must provide a description of the illness, disease, or physiologic deficits that may develop in the animals.

If animals are going to be deprived of food **OTHER THAN PRE-OPERATIVE SURGICAL PREPARATION**, a dialogue box will generate. You must provide a description of the deprivation and a justification for depriving animals of food for >24 hours.

If animals will have food/fluid restrictions, dialogue box will generate. You must provide a description of the deprivation and a justification for the restriction.

If it selected that a paralytic/neuromuscular blocking agent will be used on an unanesthetized animal, a dialogue box will generate. You must provide scientific and/or veterinary justification.

If animals will undergo prolonged restraint, dialogue boxes will generate. You must describe the method of restraint to be used, the procedure to be used to acclimate the animal to the restraint, and the veterinary care associated with the use of the restraint.

If you selected non-standard housing, a dialogue box will generate. Common reasons for non-standard housing are given and you need to choose which you are using. Choose "other" if your non-standard housing is not in the list. A dialogue box will generate in which you must identify the non-standard housing issue and a justification.

If you selected that your animals will not be given species-specific enrichment, a dialogue box will generate. You must provide a justification for not using enrichment.

If you selected that animals will be uniquely identified, a dialogue box generates in which you can select what method(s) of identification will be used. If none are on the

list that generates, select "other". Another dialogue box will generate in which you will describe the identification method to be used.

If you are housing animals outside the central animal facility, you will need to describe where you will be housing the animals and provide a justification for housing animals outside the central animal facilities.

If you check that a special diet or water will be used, a dialogue box will generate. You must describe the manipulated or special diet or water to be used with the animals.

If you state that cells lines derived from, or passaged through, rodents will be used, a dialogue box will generate asking you if the cell lines have been tested for pathogens. You must answer yes or no to this question.

8. Animal Monitoring

This is where you inform us what clinical signs for which you are going to assess your animals and how frequently you will be doing this. Check off all boxes that apply. One question will be generated for each item checked: How frequently are you going to check you mice for that parameter. You need to answer each question. At least one check box **MUST** be checked. If you check "not applicable", then you will have to state why it is not applicable to your protocol.

9. Minimizing Pain and Distress

This is a mandatory question, which means at least one box must be checked in order to submit your protocol for submission. If you select "not applicable", you are going to have to state why it isn't applicable. This tells us when you are going to euthanize animals if their pain/distress is too great.

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1 Administration Title	Objective criteria The following criteria will be used to euthanize animals or remove them from study. For more information, click on the help button.	*
Protocol Renewal Information Reference Number	Failure of animal to ambulate Tumor size reaches 2000 min diameter or greater or becomes necrotic	
Created By String Strin	Failure of the animal to access food and/or water Animal unresponsive to stimuli	
Protocol Associates Associates Authorized to Order Animals Funding/Grant Source	Respiratory distress Recurring rectal prolapse Sever dehvdration	
Funding Details Study Initiation	V Not applicable	
2 Project Overview Lay Summary	Not applicable	
3 Animal Subjects Species	Question Not Applicable Select why this question is not applicable to the project.	
4 Surgery Surgical Procedures	 Inis is a ussue narvest protocol with no experimental procedures performed on the animals and no pain/distress is expected. This is a tissue harvest protocol with minimal experimental procedures performed on the animals and no pain/distress is expected. This is a breeding protocol; no pain/distress is expected. 	ed.
Type of Surgery	Other	448
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If you select "other", then you will have to describe what criteria you will be using.

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Study Initiation Accounts	☑ Other					
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Specific Information on Protocol Sections

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- 10. Disposition of Animals at the End of the Project
 - a. This is a mandatory question that must be answered in order for your protocol to be submitted for review. You simply select which box describes what the disposition of your animals will be at the completion of your study. If you select euthanasia (red arrow), you will be asked to state what method of euthanasia you will use.

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Title Protocol Renewal Information Reference Number	Disposition of the J 2007 AVMA Guide	i nimals ines on Euthanasia the animals at the end of th	he study will he (select all t	hat apply). For more informatio	n, please click on the bein button.		
Protocol Number Created By	Euthanasia	other approved protocol					
Principal Investigator Protocol Associates	Death as an E	idpoint					
Associates Authorized to Order Animals	- Other						
Funding/Grant Source							
Funding Details	Euthanasia						
Study Initiation	Select the method	s) of euthanasia to be used					
Accounts	Select all that may	apply.					
2 Project Overview	CO2 narcosis f	ollowed by cervical dislocat	ion				
Lay Summary	CO2 narcosis f	CO2 narcosis followed by thoracic trans-section					
Energies	CO2 narcosis f	CO2 narcosis followed by decapitation					
A Surropy	CO2 followed b	CO2 followed by exsanguination					
Surgical Procedures	CO2 narcosis f	CO2 narcosis followed by visual examination to include ensuring lack of respiration and heartbeat (recommended for bulk euthanasia)					
Yes	Decapitation u	apitation without anesthesi nder anesthesia	a				
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b. If you choose a method of euthanasia that needs scientific justification, you will be asked to provide it. For instance, if you choose cervical dislocation without anesthesia, you would see the following. You would have to justify using this method of euthanasia (red arrow). All euthanasia methods will ask what species it will be performed on.



Specific Information on Protocol Sections

11. Hazards and Compliance

a. Hazardous Agent Use

This is a mandatory question, meaning it must be answered in order to submit your protocol for review. If you answer NO, then you are finished. If you answer YES, then questions will generate which you must complete. Every protocol is reviewed for potential hazards and if you have answered no, you may still have to account for the use of an agent that reviewers find to be hazardous.

b. If you select yes, the first thing you will need to do is to identify your hazard. Click the + button (red arrow) to generate a list of known hazards. To choose a hazard, click on the symbol (blue arrow) and then hit the OK button (purple button). If you don't you're your hazard, proceed to step e below. Ignore the Keywords question (yellow arrow), that information will be provided by the BSO or Chemical Hygiene Officer at a later date.



Once you choose your hazard, it will be shown on the screen (green arrow).



Specific Information on Protocol Sections

c. Then you will have to select a hazard type. The hazard types are shown in the hazard itself that you selected (blue arrow). Anything in brackets [] will be the hazard type. All you need to do is select the hazard type given. In this example, the selected hazard, Streptozotocin is a chemical hazard and has a [C] after it (blue arrow)- check the hazard type that has the [C] (yellow arrow).

C Animal Protocols - 1 🏠 Main Protocol F	orms Protocols	Pohl, Alison 上 🚖 🕐 🛈
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Outline # 20 7	Inimal Care and Use Protocol 20100802	1.2 - 🗰
Filter Outline 1.2 +	Verdana 🔹 🔹 12 🔹 B I U 🔤 🗄 🗄 🖉 🎘 🕹	
1 Administration Title	11.2.2.2.1 Streptozotocin (STZ) [C]	- *
Protocol Renewal Information	Hazard Type	0 🗖
Reference Number	USDA/CDC Select Agent List	
Protocol Number	Indicate Hazard Type for each hazardous agent. If the agent was selected from the list,	the agent type is noted in brackets after the name of
Created By	the agent.	
Principal Investigator	If you chose "Other" from the Hazard List above, choose "Other" in this Hazard	d Type list also. Name the potential hazard in the text
Protocol Associates	the potential hazard.	material ballety bata sheet (HSDS) to help identify
Associates Authorized to Order Animals	Anesthetic Gas: e.g., Isoflurane, Halothane, Sevoflurane, etc.	
Funding/Grant Source	O Paraformaldehyde, Formalin, Glutaraldehyde [aldehyde fixatives]	
Funding Details	Biological Agent [B]	
Study Initiation	Chemical Agent [C]	
Accounts	Radioactive Materials [R]	
🖃 2 Project Overview	Recombinant DNA (rDNA) other than transgenic/gene targeted animal lines.	
Lay Summary	Irradiation	
🖃 3 Animal Subjects	CDC/USDA Select Agents (SA)	
Species	Imaging using ionizing radiation	
4 Surgery	Other - Use this for potential hazards not on the hazard list. Identify the potential ha	azard in the text box below.
Surgical Procedures		
	Training Information	<u> </u>
Done		Generation Generation

d. When you do this for each hazardous agent, a safety protocol form for each agent according to its type of hazard will be generated. You do **NOT** have to fill out the safety protocol prior to submission, but it **MUST** be completed prior to approval.

C Animal Protocols - Main	Pohl, Alison 👱 👾 🕜 🌘	
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Outline 🛞 😤	Animal Care and Use Protocol 20100802	12 -
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1 Administration	Chemical Agent [C]	-
Title Protocol Renewal Information Reference Number Protocol Number	Chemical Safety Protocol This is the beginning of the ACC chemical safety protocol for hazardous chemic safety protocol is not required for protocol submission, but it is required for pri protocol, please contact the BSO at rwallace@adp.uchc.edu.	cals or chemicals with unknown toxicology. Completion of this rotocol approval. If you have any questions about this safety
Created By Principal Investigator Protocol Associates	Hazard Number This number will be assigned by the BSO.	-
Funding/Grant Source		
Funding Details Study Initiation Accounts	Animal/Materials Flow Supply an animal/materials flow for your experiment. Indicate: • how/when animals/materials will enter and leave chemical isolation:	1 2 0
2 Project Overview	when and where animals will be dosed, housed, euthanized, and necropsied;	; and
Lay Summary	the period of time between dosing and eutnanasia. Click on the question mail	inc for an example.
3 Animal Subjects	PLEASE NOTE: the chemical isolation room is set up for dosing and necropsy isolation or in CCM LB008.	in the BSC and euthanasia may be performed either in chemical
Species		
= 4 Surgery		
E Surgical Procedures		
Yes Type of Surgery	Risk Assessment Risk assessment will be completed by the BSO.	
sne		😥 📔 🔛 Internet 🖓 + 🔩 100% +

e. If you do not find what you believe to be a hazardous agent in the list, select "other" in the hazard list by clicking on the symbol (red arrow). Then click on the OK button.



Once you select "other", the hazard type field will generate. Select "other" (red arrow).

Animal Protocols - Main Protocol Forms Protocols Pohl, Alison 上 🖕 🕐 🕕 H 4 員. 😤 Create Original Protocol 🔻 * 207 Outline Animal Care and Use Protocol 20100802 1.2 -Filter Outline 1.2 + Verdana 12 • B I <u>U</u> • E E ≣ ≣ ■ ® ∰ The E - 2 Project Overview 11.2.2.2.1 Other - * Lay Summary 0 -3 Animal Subjects Hazard Type elect Agent List Species Indicate Hazard Type for each hazardous agent. If the agent was selected from the list, the agent type is noted in brackets after the name of - 4 Surgery the agent. Surgical Procedures If you chose "Other" from the Hazard List above, choose "Other" in this Hazard Type list also. Name the potential hazard in the text 5 Sequence of Experimental Procedures "Other". Also provide any accompanying information such as an Material Safety Data Sheet (MSDS) to help identify box that appears under Sequence of Experimental Procedures the potential hazard. Anesthetic Gas: e.g., Isoflurane, Halothane, Sevoflurane, etc 6 Transgenic and Gene-Targeted (Tg/GT) Animal Transgenic and Gene-Targeted (Tg/GT) Anima Paraformaldehyde, Formalin, Glutaraldehyde [aldehyde fixatives] Biological Agent [B] - 7 Protocol Checklist Protocol Checklist O Chemical Agent [C] - 8 Clinical Outcomes Radioactive Materials [R] Animal Monitoring Recombinant DNA (rDNA) other than transgenic/gene targeted animal lines. 9 Minimizing Pain and Distress O Irradiation Objective criteria O CDC/USDA Select Agents (SA) Procedures used to Minimize Pain and Distress O Imaging using ionizing radiation = 10 Disposition of Animals at the End of the Proje Other - Use this for potential hazards not on the hazard list. Identify the potential hazard in the text box below. 🛃 start 🌈 http://infoed.uchc.ed... 🌈 TOPAZ Enterprise - ... 📓 GRANITE Enterprise . 😡 Inbox - Microsoft O ≝ (> > <mark>8</mark> , 3 ⊂ (1 n 🖂 🗟 📼 💿 🕎 C K: (Alson) TOPAZ S. Telephone Directory

This will generate a text field (yellow arrow). List all potentially hazardous materials in this field with any available identifying information (e.g., CAS numbers, MSDSs, etc.). If any are determined to be hazardous agents by the reviewers, they will be then be added to the hazard list and you will be required to choose it and complete the safety protocol during the resubmission process prior to protocol approval. **DO NOT FILL OUT ANY SAFETY PROTOCOL BEFORE YOU HAVE BEEN INFORMED THAT YOU AGENT IS CONSIDERED HAZARDOUS**.

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2 Project Overview	Other - Use this for potential hazards not on the hazard list. Identify the potential hazard in the text box belo	w. 🗕			
Lay Summary	Ather Betantially Hazardour (gent(c)				
3 Animal Subjects	List all 'other' potentially hazardous materials you will be using and/or not listed in the Hazard List. Use full chem	ical nat			
Species	acronyms. Supply CAS numbers if available. Attach MSDSs. Use Genus species and strain names. Attach identifyi	ing infation.			
- 4 Surgery		\checkmark			
Surgical Procedures					
5 Sequence of Experimental Procedures	Training Information	2 0 🗖			
Sequence of Experimental Procedures	Training information for researchers	~ • • •			
6 Transgenic and Gene-Targeted (Tg/GT) Animal	THIS QUESTION REQUIRES THE E-SIGNATURE OF THE PI. IF YOU ARE NOT THE PI, DO NOT COMPLETE	E THIS SECTION. THE PI			
Transgenic and Gene-Targeted (Tg/GT) Anima	MUST COMPLETE IT PRIOR TO SUBMISSION.				
7 Protocol Checklist	Certain trainings are necessary for work in a laboratory and for work with specific materials. This is explained in t	the website above. Check off			
Protocol Checklist	trainings necessary for all personnel to do work on this project:				
🖃 8 Clinical Outcomes	Laboratory safety training (required of all researchers working in UCHC laboratories)				
Animal Monitoring	Bloodborne pathogen training (initial and/or annual: required for anyone working with human materials included	ding cell lines)			
9 Minimizing Pain and Distress	Radiation safety training (for work with radioactive materials, irradiators, ionizing radiation producing imaging	g devices)			
Objective criteria	Biosafety training (required when working with agents infectious to humans)				
Procedures used to Minimize Pain and Distress	Maintenance or facilities personnel who perform tasks in your laboratory (e.g., a plumber notified of a repair needed to a sink drain				
10 Disposition of Animals at the End of the Proje	mere source as disposed must be morned about any nazarus they may encounter in their work by th	is rayra atali.			
Disposition of the Animals	12 Principal Investigator's Assurances	-			
Done	- · · · · · · · · · · · · · · · · · · ·	🖓 • 🔍 100% •			

For specific questions regarding the safety protocol, please contact the BSO at <u>rwallace@adp.uchc.edu</u>.

- f. Chemical Safety Protocols
 - i. Hazard number

Leave blank, this will be assigned during the review process.

ii. Animal/materials flow

In order to properly assess whether an agent is hazardous in the circumstances it will be used, the safety reviewers must completely understand how the chemical will be used. Click on the blue help button for instructions on what needs to be entered into this text field. The timing between when various agents are used on the animals and when they have to leave the isolation facilities or are euthanized determines when people may be exposed to the chemicals used. iii. Risk assessment

Leave blank with initial submission. The BSO or chemical hygienist will inform you during the review what needs to be added here.

iv. Chemical

Select in what form the chemical will be received. Regardless of what is selected, dialogue boxes will generate in which you will have to describe how much is received and how the chemical is accessed.

v. Volatility

Select yes or no.

vi. Potential chemical spill

This section describes a spill or breakage of the source container. Spillage of diluted stocks or doses will be taken up in later sections. Be sure to answer all questions detailed in the section.

vii. Chemical preparation

Select yes or no. If yes is selected, dialogue boxes will generate asking for specific information on stock preparation, preparation procedures, and a spill protocol for the stock solution.

viii. Personal protective equipment- preparation

Select from a list of person protective equipment all that will be used by personnel preparing the chemical.

ix. Dosing regimen

This field is designed to show how a single chemical is used in multiple ways (e.g., gavage, IP, etc.) or with multiple species. You cannot explain how multiple chemicals are used in this table. Select a row for every species or every route of administration the chemical will be given to by clicking on the + sign (blue arrow). Complete the table. Be careful to observe the internal scroll bar (red arrow) so you do not miss columns.

NOTE: Frequency of dosing is the number of doses per time increment (e.g., twice per day); Number of doses to be given is total number of doses (e.g., if you are giving twice per day for 7 days the total doses is 14); Total mass/animal/dose is would be the concentration x volume given.



x. Dosing personnel

Select who will be dosing the animals. If PI staff and/or CCM staff is selected, dialogue boxes will generate and you must list all personnel who will be dosing the animals.

xi. Dosing procedures

Select all statements that apply.

- 1. If conventional needles/syringes is selected, dialogue boxes will generate regarding the use of safety needles and contaminated sharps disposal.
- 2. If non-conventional needles/syringes is selected, dialogue boxes will generate regarding the description of the needles/syringes to be used and contaminated sharps disposal.
- 3. If dosing will take place neither inside a chemical fume hood nor inside a BSC, a dialogue box will generate requesting a justification of why a fume hood or BSC is not used.
- 4. If left over doses will require disposal is checked, a dialogue box will generate asking for a description of disposal.
- xii. Potential chemical spill

This section describes a chemical spill of the working solution. Answer all bullet points listed in the section.

xiii. Personal protective equipment- dosing Select from a list of person protective equipment all that will be used by

personnel during dosing of the chemical to the animal.

xiv. Animal carcass disposal

Select how animal carcasses will be disposed. If "other" is selected, a dialogue box will generate and you will have to explain the disposal of the carcasses.

xv. Bedding disposal

Select how bedding will be disposed. If "other" is selected, a dialogue box will generate and you will have to explain the disposal of the bedding.

- xvi. Other potential chemical exposure to personnel Select yes or no. If yes is selected, a dialogue box will generate and you will have to describe the procedures that could cause exposure of personnel to the chemical.
- xvii. Special instructions based on risk assessment

PI must consider the potential health status of individuals using the chemical and note any health statuses that require special restrictions (e.g., pregnancy, personnel with asthma, etc.).

xviii. Pl assurances Read and select all boxes.

- g. Biological Safety Protocols
 - i. Hazard number
 - Leave blank, this will be assigned during the review process.
 - ii. Describe the hazardous biological agent

Make sure that you answer all the questions asked in this field.

iii. Storage

Identify all rooms and at what temperature the biological agents will be stored.

iv. Traits of infectious agents

Select all statements that apply.

- Contains recombinant DNA
 If this box is selected, you need to state if your recombinant agent has been registered with the UCHC IBC. Select either yes or no or unknown.
- b. Infects humans and/or animals

NOTE: This is to identify all procedures that will be done with infectious agents to understand where exposures to personnel might occur.

- Preparation of the agent for inoculation 1 Select all aerosol-producing processes that may be used to prepare the agent for inoculation. Answer any questions that may be generated when each process is selected.
- 2. Preparation of the agent for inoculation 2
 - Note how people are known to acquire infection from the agent being used.
 - Note which steps in your procedures could produce conditions for personnel to acquire infections.
 - Note maximum culture volumes of potential spills.
- 3. Signs and symptoms of human infection

Describe the signs and symptoms of human infection with the agent being used.

 Preparation of the agent for inoculation 3 Select all personnel protective equipment to be used for inoculation into the animals. Answer any questions that may be generated when each item is checked.

5. Biological safety cabinets

Also known as BSCs or tissue culture hoods. You need to list all the BSCs you are working in with this agent. Click on the + symbol (red arrow) to generate a row (blue arrow)in the table. Complete the table.

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Biological Safety Protocol Hazard Number	Biological Safety Ca Complete the table	binets (BSC)			A		
Describe the Hazardout	Room Location	Serial Number	Certification Expiration Date				
Infects humans and/or alternative							
Preparation of the Agent for Inoculation Preparation of the Agent for Inoculation Sions and Symptoms of Human Infectic	Location of Inoculat	ion ne inoculation of animals o	ccur?		Ξ		
Preparation of the Agent for Inoculation Biological Safety Cabinets (BSC)	CCM biocotainment O Dutside CCM biocotainment						
Location of Inoculation Infectious Dose	O Multiple location	ns					
Number of Animals Performance of Inoculation	Fill out the table be	low. Describe the infectiou	s dose(s) for this agent.				
Personal Protective Equipment Anesthesia	Volume (ml)	Concentration (pfu/ml or cfu/m	Total Particles I) pfu or cfu/inoculun	n			
Restrant	Attributed	A TOPAT Enternise	T GRANTE Externise	🗟 Irbu: - Nirresoft Cut	🔤 😡 🗞 🧱 LLO7 FM		
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6. Location of inoculation

Select where the inoculation will occur. If "outside CCM biocontainment" or "Multiple locations" are selected, dialogue boxes will generate where you must list the room numbers.

7. Infectious dose

For each infectious dose, click the + sign (red arrow) to add a row to the table (blue arrow). Enter the information requested.



8. Number of animals

List a range of the number of animals that will be inoculated per session.

9. Performance of inoculation

Select who will perform the inoculation. If PI staff or CCM Veterinary Staff is selected, dialogue boxes will generate and you must state who will perform the inoculation.

10. Personnel protective equipment

Select from a list of person protective equipment all that will be used by personnel preparing the chemical.

11. Anesthesia

Select yes or no.

12. Restraint

Select the answer to the question. If "Restrained with a devise" is selected, a dialogue box will generate. Describe the device to be used.

13. Route of inoculation

Select all routes to be used.

- a. If "Intranasal Inoculation" is selected, the technique must be described.
- b. If "topical application" is selected, the technique must be described.
- c. If "injection" is selected, questions will generate regarding the use of needles will be generated; you must answer all questions.
- d. If "aerosol" is selected, a dialogue box will generate and you must describe the technique and safety equipment to be used.
- e. If "in food" is selected, a dialogue box will generate and description of how food is prepared and presented to the animals is required.
- f. If "gavage" is selected, a dialogue box will generate and you must describe the technique be used.
- g. If "other" is chosen, a dialogue box will generate and the route needs to be described.
- 14. Clearing from animals

Select yes or no. "Clearing" means the animal cures itself of the microorganism so that it can no longer be shed by the animal. If "yes" is selected a dialogue box will appear that asks how long it takes for the clearing to occur. Enter the time from inoculation to the animal being no longer infected.

- Infection from agent after inoculation into animals
 This question is about animals shedding, by what route, and under what circumstances personnel may become infected.
- c. Risk group 1
 - Provide the source of the risk group classification you are using.
- d. Risk group 2
 - Provide the source of the risk group classification you are using.
- e. Risk group 3
 - Provide the source of the risk group classification you are using.
- f. Attenuated strain

If your strain is considered attenuated, you must describe its attenuation.

- g. Drug resistant strain
 Describe the strain and to which drug(s) it is resistant. State what other drug could be used to treat laboratory acquired infections.
- h. Regulated as a CDC/USDA select agent
 You need to discuss with the BSO the use of any select agents.
- Laboratory is registered by the CT DPH Labs that use infectious agents need to be registered with the CT Department of Public Health. List the expiration date of the registration of your laboratory; if you need registration, contact the BSO.
- v. Information about CCM biocontainment

Read and select all statements. The e-signature that you will generate when answering this questions implies that you understand and agree to each statement.

vi. Animal/materials flow

In order to properly assess whether an agent is hazardous in the circumstances it will be used, the safety reviewers must completely understand how the biohazardous agent(s) will be used. Click on the blue help button for instructions on what needs to be entered into this text field. The timing between when various agents are used on the animals and when they have to leave the biocontainment facility or are euthanized determines when people may be exposed to the biohazardous agent(s) used.

vii. Animals leaving biocontainment

Check off if animals are leaving biocontainment or not. If "yes" is selected;

- a. Information about Leaving Biocontainment. You must read and check off each statement.
- b. Not Returning. Select yes or no. If "yes" is selected, an explanation and justification for why infected animals will leave biocontainment and not return must be provided. Be sure to address all bullet points.

- c. Leave and Return. Select yes or no. If "yes" is selected, an explanation and justification for why infected animals will leave biocontainment and return must be provided. Be sure to address all bullet points.
- viii. Disposal of infected carcasses

Select the disposal method of the infected carcasses. If "other" is selected, a dialogue box will generate and the method of disposal if infected carcasses must be provided.

- ix. Post-infection cage bedding disposal Select disposal method of the contaminated bedding. If "other" is selected, a dialogue box will generate and the method of disposal if contaminated bedding must be provided.
- X. Other potential infectious exposures to personnel
 Select yes or no. If "yes" is selected, a dialogue box generates and a description of procedure(s) that could cause exposure must be provided.
- xi. Special instructions based on risk assessment

PI must consider the potential health status of individuals using the biohazardous agent and note any health statuses that require special restrictions (e.g., pregnancy, personnel with asthma, etc.).

xii. Plassurances

Read and select all boxes.

- h. Anesthetic gasses
 - 1. If anesthetic gasses are checked as a hazard, the PI will have to list for what purposes the anesthetic gas will be used.
 - 2. Then the PI will need to select all the methods of use from the selections generated.
- i. Paraformaldehyde
 - 1. If aldehydes are checked as a hazard, the PI will have to list for what purposes the aldehydes will be used.
 - 2. Then the PI will need to detail what protections or controls will be used to protect researchers.
- j. Radioactive Materials

The use of radioactive materials requires training, a radiation safety protocol, and an animal safety protocol. The PI must contact the BSO.

k. Recombinant DNA

The use of recombinant DNA requires registration with the IBC. The PI must contact the BSO.

I. Irradiation

The use of irradiation requires training and fingerprinting. The PI must contact the radiation safety office

m. CDC/USDA select agents

The use of select agents (other than exempt quantities of toxins) is prohibited at the UCHC.

n. Imaging using ionizing radiation

Use of imaging that involves ionizing radiation requires training. The PI must contact the radiation safety office.

- o. Other
 - 1. If "other" is checked, the PI must contact the Research Safety Industrial Hygienist or the BSO.
 - 2. The PI must list all the "other" potentially hazardous materials which will be used. DO NOT FILL OUT ANY SAFETY PROTOCOL.
- p. Training Information

The PI must select each applicable box.

- 12. Investigator Assurances
 - a. This question is not only mandatory, but will require the e-signature of the PI. If you are authoring the protocol and ARE NOT THE PI, DO NOT COMPLETE THIS SECTION. The PI MUST complete it prior to submission.
 - b. Simply check off **EACH BOX** after you read the corresponding statement (yellow arrow). When you hit the save button (red arrow) a dialogue box will generate which will ask you for your username and password (blue arrows). Enter that information and then hit the save button (orange arrow) which will not be grayed out.

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1 Administration	Assurance Statements	Username	₩20	
Title	Read each statement and check it of		A	
Reference Number	I hereby certify that the foregoin governing the care, treatment, at	Password	nd humane standards	
Principal Investigator	I assure that discomfort and inju		ally valuable research	
Protocol Associates	and that appropriate anesthetic,	Staff Name	ary pain and distress.	
Associates Authorized to Order Animals	✓ I hereby certify that these studie	Pohl, Alison		
Funding/Grant Source	I assure that personnel conductir procedures prior to using live ani	Current Date/Time	ed and trained in these	
- 4 Surgery	🔽 I assure that I am familiar with, a	2/10/2011 10:41:12 AM	nd policies.	
Surgical Procedures	I agree to cooperate with the ACC	Item Name		
G Protocol Checklist	I assure that any changes in prot	Assurance Statements	to implementation.	
Protocol Checklist	I assure that every individual work	Event Name	n's Occupational	
- 11 Principal Investigator's Assurances	Health Surveillance (OHS) Progra	Animal Protocol Question Answered		
Assurance Statements	I assure that I will notify the ACC unanticipated pain and/or distres	Description	his will include any	
	\checkmark I assure that the procedures desc		cation.	
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13. For ACC Use only

Do not write or change anything in this field. The ACC office will generate an individual as an ACC Only Author; you will not be able to change this name.