



**Environmental Health and Safety**

FOR OFFICE USE ONLY

IBC Permit Number:

Date Received:

Date Approved:

**Institutional Biosafety Committee (IBC) Protocol Application Bio  
Safety Permit**

**INSTRUCTIONS**

All pertinent sections must be completed in detail. If a section is left incomplete or no information is provided, your permit will be postponed, and all proposed activities and/or concurrent experiments must be halted until the plan is modified to meet the IBC's expectations.

The form provides text boxes for you to enter information. These boxes will expand as you enter text and do not have a set number of characters. Please provide as much detail as possible.

When you have completed the form, print a copy, then sign and date the signature page. Email a completed copy to [ibc@unthsc.edu](mailto:ibc@unthsc.edu).

**General Information**

**Project Title**

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**Principal Investigator**

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**Phone**

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**Email**

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[@unthsc.edu](#)

**Institution and Department:**

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**Funding Agency/Sponsor:**

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**Department:**

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**Name of the Person completing the application:**

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**Phone**

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**Email**

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**Purpose of this application**

In accordance with the Hazardous Material/Agent Permit Activation and Renewal Policy, this permit only allows a 3-year period of activity. When additional time is needed, the permit must be revised, re-submitted, reviewed, and re-approved by the IBC for another activity period, which will again be limited to three years.

**Lay Summary / Abstract:** Please provide for a lay summary of the nature and purpose of the work. The summary should be aimed at non-specialists in the field and written in a way that they can easily understand (do not include the Specific Aim page of a grant).

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**1. Starting date of activity involving hazardous materials**

**2. List all the hazardous materials use in the proposed project**

Hazardous Material	Yes	No	Details
Use of Recombinant DNA	<input type="checkbox"/>	<input type="checkbox"/>	If your project involves use of recombinant/synthetic nucleic acids, complete <b>Appendix 1</b>
Use of Viral vectors	<input type="checkbox"/>	<input type="checkbox"/>	
Use of siRNA, miRNA, shRNA	<input type="checkbox"/>	<input type="checkbox"/>	
Use of Plasmids	<input type="checkbox"/>	<input type="checkbox"/>	
Use of Bacterial Artificial Chromosomes	<input type="checkbox"/>	<input type="checkbox"/>	
Use of Infectious Agents (bacteria, virus, fungi, parasites, prions)	<input type="checkbox"/>	<input type="checkbox"/>	Provide details in <b>section 6</b>
Use of unfixed Animal tissues or fluids	<input type="checkbox"/>	<input type="checkbox"/>	
Use of Animal and or Tumor cell lines	<input type="checkbox"/>	<input type="checkbox"/>	
Use of Human cell lines	<input type="checkbox"/>	<input type="checkbox"/>	
Use of human fluids and tissues (unfixed)	<input type="checkbox"/>	<input type="checkbox"/>	
Use of select agents (exempt quantities)	<input type="checkbox"/>	<input type="checkbox"/>	
Use of Biological toxins	<input type="checkbox"/>	<input type="checkbox"/>	
Use of Hazardous Chemicals	<input type="checkbox"/>	<input type="checkbox"/>	Provide details in <b>section 7</b>
Use of Animals	<input type="checkbox"/>	<input type="checkbox"/>	Add IACUC protocol (s) # Provide details in <b>section 8 (VII)</b>
Has a protocol or protocols been submitted and approved for the animal subject issues indicated above ?	<input type="checkbox"/>	<input type="checkbox"/>	
Use of Human subjects	<input type="checkbox"/>	<input type="checkbox"/>	Add IRB protocol (s) #
Has a protocol or protocols been submitted or approved by the IRB?	<input type="checkbox"/>	<input type="checkbox"/>	
Human research protocol involves phlebotomy	<input type="checkbox"/>	<input type="checkbox"/>	If YES complete <b>Appendix 2</b>
Use of Controlled substance	<input type="checkbox"/>	<input type="checkbox"/>	Add DEA registration information
Use of Radioactive materials	<input type="checkbox"/>	<input type="checkbox"/>	Add RSO consultation date/comments
Other (provide details)			

**3. Personnel - Research Personnel** *(Add more rows if needed)*

Name /Department	Role/Status	Years of experience with the agent	Phone	Email	Biosafety Training completion date	BBP training completion date

**4. Personnel – Functions** (Mark Yes or No for each box) *(Add more rows if needed)*

Name	Will you be handling biohazardous materials?	Will you be handling chemical hazards?	Will you be handling radioactive materials?	Will you be handling animals?	Will you be handling human materials?

**5. Locations**

*List all location where hazardous materials, specified under Summary Tab, will be used and stored*

Bldg	Room	Biosafety level	Is the location(s) where biohazardous materials will be used and stored posted with BIOHAZARD warning sign?	Has the laboratories indicated as using or storing biohazardous materials been audited by the Biosafety Office?

**6. Infectious agents/ human cell lines/ animal cell lines/ human/non-human primate unfixed tissue**

**Are you using Infectious agents/ human cell lines/ animal cell lines/ human/non-human unfixed tissue in the proposed research?**

Yes ☐ No ☐

If yes complete the following questions:

*Example on how to fill up the column is given in red using Ad5 as agent/organism.*

-Material/Agent? - Recombinant? (Yes/No) If yes, describe in Section VII.	Source	Species/Strain	Risk Group*	Lab Biosafety Containment Level**	Administered to Animals? (If yes, specify which animal)	Route of Administration	Animal Biosafety Containment Level
Ad5 (Yes)	Commercial vendor: Addgene	Human adenovirus C /Type 5	RG2	BSL2	Yes/mice	IV	ABSL2

In the space below, please briefly describe how each of these biological materials/agents will be used including their recombinant nature (e.g., transgenes, modifications):

For each entry in the above table please complete the following:

*Example on how to fill up the column is given in red using Ad5 as agent/organism.*

Material/Agent	Sharps use? (Yes/No)	Infectious Dose	Antibiotic Resistance	Toxin Production	Inactivation? Type (e.g., heat, chemical)	Routes of infection (e.g., inhalation)	Largest volume/conc entration to be handled
Ad5	Yes	>150 viral units	None	No	No	Inhalation, droplet, needle stick	1 x 10 <sup>6</sup> IFU/PFU

For each entry containing antibiotic resistance and/or toxin production, please describe below:

\*Agent-specific information, including Risk Group, may be obtained from [American Biosafety Association \(ABSA\)](#) Risk Group database or [Public Health Canada Pathogen Safety Sheets](#)

\*\*CDC classifies work with human and non-primate blood, body fluids, or tissue (e.g. human cell culture) as a minimum of BL-2.

## 7. Hazardous chemicals

Are you using any hazardous chemicals in the proposed research?

Yes ☐ No ☐

If yes complete the following questions.

- a. Please list all hazardous chemicals use in the proposed work.

*Example on how to fill up the column is given in red using cisplatin.*

Name of the chemical	CAS#	Associated hazard	Source	Intended use
Cisplatin	15663-27-1	Acute toxicity, carcinogenicity, mutagenicity. May cause serious eye damage.	Cayman Chemicals	Animal Injections

- b. Are you synthesizing any of the proposed chemicals in your lab? Yes ☐ No ☐

If yes: Please provide summary of your synthesis process.

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Location of synthesis

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## 8. Procedures and controls

Please provide a summary of the proposed research. Describe the **procedures** involving the use of the pathogen/biohazard agent.

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For each entry listed in Section 6 please complete the following

- a. *Provide a step-by-step description of the study procedure highlighting the steps that may lead to the personnel's exposure to biohazardous materials. Plan control measures. Use a new row for each task/activity.*

*Example on how to fill up the column is given in red using Ad5 as agent/organism.*

Material/Agent	Procedure	Significant Hazard	Control measures
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			Containment	PPE
Ad5	Sample aliquoting	Infectious aerosol	BSC	gloves, lab coat

- b. **Respiratory protection:** *N95 respirator is generally recommended for laboratory workers who will be engaged in research with infectious agents that have potential for the spread of disease through the airborne route. If the N95 respirator has been selected as the control measure, please provide the dates of N95 fit testing.*

- I. **Emergency Procedures:** Please describe procedures to be followed in the event of spill or exposure.

UNTHSC procedures for chemical or biological spill or contamination of the lab will be followed

Specify spill clean-up procedures

PI shall inform all laboratory personnel of the content and location of the Emergency Plan. *((In the event of personnel exposure during business hours, the PI will be informed, and the personnel will visit the [Priority Care Clinic](#), IREB First floor 3430 Camp Bowie Blvd. Fort Worth TX. 76107. If the exposure occurs after business hours or on a weekend, personnel will inform the PI and go to emergency clinic of your choice.))*

*In the event of personnel exposure during business hours, the PI will be informed, and the personnel will visit the [Priority Care Clinic](#), IREB First floor 3430 Camp Bowie Blvd. Fort Worth TX. 76107. If the exposure occurs after business hours or on a weekend, personnel will inform the PI and go to emergency clinic of your choice. PI and BSO will be notified with any exposure.*

Specify exposure procedures

- a. Emergency contact person

Name	Office phone	Cell phone

- II. **Lab Security:** Describe the procedures for site security (*How will lab access be limited? How will lab entries be kept secure? Will anyone have access besides personnel listed in this protocol?*).
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III. **Health surveillance:**

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- a. **Immunizations:** *Immunization is generally recommended for laboratory workers who will be engaged in research with infectious agents for which an effective vaccine is available. If your research involves an infectious agent, please describe vaccines available for this infectious agent and the method of obtaining the vaccine for laboratory personnel.*
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IV. **Decontamination and Waste Disposal:**

- a. Describe procedures for inactivation of pathogens, biohazards, or unused stocks. (autoclave, chemical treatment, etc.)
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- b. Describe briefly decontamination procedures and frequency
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- c. What disinfectants will be used?
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- d. Is an autoclave available?

Yes ☐ No ☐

- e. Is a sharp disposal container available?

Yes ☐ No ☐

- V. **Transfer of Biohazard Material:** If pathogens or biohazards will be transferred between laboratories or work locations, please describe the transport procedures, containment, and appropriate safety precautions. (Please refer to UNTHSC [SOP for biohazard transport](#))
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VI. **Unattended Operations:** Please describe portions of the experiment, if applicable, that may run unattended and steps taken to prevent accidental exposures.

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VII. **Animal Use**

Are laboratory animals in this research project? Yes ☐ No ☐

If yes, please provide the following information

Are the animals infected with the agent? Yes ☐ No ☐

*Example on how to fill up the column is given in red using Ad5 as agent/organism.*

Material/Agent	Inoculation route(s), e.g. IV, IP, aerosol	Signs of clinical disease, if any	Shedding, if YES indicate route(s)	Use of sharps
Ad5	intratumorally	no	feces	yes

Are special precautions required for housing the infected animals?

Yes ☐ No ☐

If yes, please explain

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Are special precautions required for handling animal cages?

Yes ☐ No ☐

If yes, please explain

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How are animal carcasses to be disposed?

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PI ( Name)

PI ( Signature)

Date

## APPENDIX 1

### rDNA/sDNA/Viral vectors

- a. List original source(s) of DNA/RNA sequences and nature of inserted sequences (include gene names, biological markers, sequences, etc. and describe the function/activity of the DNA or its product). Attach the map of vectors.

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Recombinant material	Risk Group <i>NIH Guidelines, Section II</i>	Production of more than 10L of culture Y/N	Containment level Section II and Appendix G

- b. Are using any plants in this research project?

Yes ☐ No ☐

- b. Are using any animals in this research project?

Yes ☐ No ☐

- c. If **Yes**, what will be the recommended physical containment level ?

**ABSL 1** ☐ **ABSL2** ☐ **ABSL3** ☐

- d. Are using any vectors in this research project?

**Yes** ☐ **No** ☐

- e. If yes, what is the source of the vector? Provide a map of the vector for IBC review.

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- f. What is the Host strain(s) for propagation? (genus, species and parent strain)
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Is a helper virus required?

**Yes** ☐ **No** ☐

- g. For experiments involving a deliberate attempt to obtain expression of a foreign gene, identify what proteins will be produced and their biological activity.

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- h. Target Recipient:

Animals **Yes** ☐ **No** ☐

Cultured Cells **Yes** ☐ **No** ☐

Describe:

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Humans? **Yes** ☐ **No** ☐

Plants? **Yes** ☐ **No** ☐

Other? (please describe)

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**Dual Use Research** (research intended to enhance scientific understanding and public health but could generate results that could be misused to advance biological weapon effectiveness) : Indicate whether any of the categories below pertain to your project:

**Renders a useful vaccine ineffective**

Yes ☐ No ☐

**Adds antibiotic resistance affecting response to a clinically useful drug**

Yes ☐ No ☐

**Enhances pathogen virulence**

Yes ☐ No ☐

**Lets a pathogen evade diagnostic or detection modalities**

Yes ☐ No ☐

**Weaponization (e.g., environmental stabilization of pathogens)**

Yes ☐ No ☐

**If you answer YES to any of the questions, provide details:**

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PI ( Name)

PI ( Signature)

Date

## **APPENDIX 2**

### **Research involving Phlebotomy procedures.**

Will phlebotomy be performed on human subjects at any point in this protocol?

Yes ☐ No ☐

If yes answer section below.

- a. Are all personnel performing the phlebotomy procedure approved by the IRB.  
Please list the approved IRB protocol(s).

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b. Provide the location the phlebotomy will be conducted.

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c. Provide specific details of the blood draw procedure pertaining to biosafety review.

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d. Provide specific details how the blood will be transported and stored.

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**Attestation statement:**

☐ All personnel performing phlebotomy have completed the BBP training and have read and understand all requirements for phlebotomy detailed in the HSC biosafety manual section 16.6

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PI ( Name)

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PI ( Signature)

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Date

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