



UNIVERSITY OF  
TORONTO

**Biosafety Office Use Only**

**Permit #**

**Permit Level:**

**Expiry Date:**

## BIOSAFETY PERMIT APPLICATION (LEVEL 1 OR 2)

To meet the requirements of The University of Toronto Biosafety Program, a Biosafety Permit must be approved by the Biosafety Office prior to acquiring (purchasing, importing) or conducting work with biological agents. Any proposed changes to the biological agents or the nature of the work must be submitted to the Biosafety Office for approval through an amendment. The Office must be notified by email immediately when there are changes to locations or personnel.

THE BIOSAFETY PERMIT COVERAGE IS LIMITED TO THE INFORMATION DISCLOSED HEREIN.

### PLEASE TYPE

**A – Principal Investigator**

Department

UTORid

Mailing Address

Email

Phone (Office)

Phone (Lab)

Phone (Emerg.)

Primary Affiliation:

University of Toronto

Other (please specify)

**B – Principal Lab Contact**

Department

UTORid (if available)

Mailing Address

Email

Phone (Office)

Phone (Lab)

Phone (Emerg.)

<b>C – Application Type</b>	<b>New</b>	<b>Renewal</b>		
<b>Permit Type</b>	<b>Research</b>	<b>Facility</b>	<b>Teaching</b>	<b>Storage</b>
<b>D – Permit Level</b>	<b>Level 1</b>	<b>Level 2</b>		

**E – Project Title(s) and Funding Sponsor/Granting Agency Name(s)**

Project Title			
Funding Agency	Fund/Grant #	Dates Held	
Project Title			
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**If space is insufficient, please use Appendix I**

**F – Project Locations** (Including rooms used for storage only, shared equipment rooms, etc.)

<b>Building</b>	<b>Room No.</b>	<b>Room Use</b> (e.g. tissue culture, cold room)	<b>Containment Level (1 or 2)</b>

**If space is insufficient, please use Appendix II**

**G – I) Please list all Biological Safety Cabinets (BSCs) to be used and provide the following information:**

Make	Class	Type	Building	Room

**G – II) BSC(s):**

Please attach a copy of report(s) on testing and certification performed within the last 12 months.

**H – Lab Personnel**

- 1) All personnel working in the lab must complete EHS601 Laboratory Biosafety and EHS101 WHMIS and Lab Safety, and their respective annual refreshers.
- 2) Personnel must also complete work-specific courses as applicable to their research. For a full list please refer to the [EHS Training Matrix for Lab Personnel](#).
- 3) Personnel must complete in-lab training on specifics of their research and training on emergency response procedures.

NAME	UTORid	POSITION	APPOINTMENT DATE

**If space is insufficient, please use Appendix III**

**I – Animal and/or Radioisotope Usage in Conjunction with Biological Agents**

Please select all that apply from below.

**Animal Use**

- None. No animal work will be conducted in conjunction with biological agents.
- Approval Pending. Animal Use Protocol Form submitted for review.
- Approved. Please provide the relevant Animal Use Protocol Number(s): \_\_\_\_\_
- Non-primate mammals                      Other animals

**Radiation Use**

- None. No radiation will be used in conjunction with biological agents.
- Approval Pending. Permit Application submitted for review.
- Approved. Please provide the UTRPA Permit Number(s): \_\_\_\_\_
- Radioisotope                      Irradiator                      X-ray                      Laser

**J – Other Permits and Approvals**

Indicate if any other approvals or permits are required for the listed project(s).                      **YES**                      **NO**

E.g. REB, CFIA Import permits. If yes selected, submit copies with your application package.

**K-I – Biological Agent(s):** Check all applicable bioagent categories including for material in use and stored.

See instructions in Appendix IV and Appendix IVA for further information on biological agents that is required in this permit application.

- |                                 |                                  |                     |
|---------------------------------|----------------------------------|---------------------|
| Human tissues and cells         | Human blood and blood fractions  | Human body fluids   |
| Primary human cell cultures     | Established human cell lines     |                     |
| Animal tissues and cells        | Animal blood and blood fractions | Animal body fluids  |
| Primary animal cell cultures    | Established animal cell lines    |                     |
| Bacteria                        | Parasites                        | Fungi               |
| Viruses (replication competent) | Non-replicating viral vectors    | Recombinant DNA/RNA |
| Microbial toxins                | Other (specify): _____           |                     |

**K-II – Biological Agents In Use**

Please specify the biological agents, toxins and materials that are currently being used in the project(s).  
Biological agents and materials that are currently **not being used**, but are stored in the laboratory, should be listed separately in Appendix VI.

Descriptive (Full) Name including species	Scientific Name and Special Features	Risk Group (from ePATHogen or ATCC website)

**If space is insufficient, please use Appendix V.**

Microbial Toxins as per <a href="#">PHAC HPTA Schedule 1</a>	Quantity (mg)

### **K-III – Assessment on the Potential for Dual-Use**

Use the Assessment on the Potential for Dual-Use subform provided in the application package.

### **M – Medical Surveillance**

Medical Surveillance is the process of evaluating the health of workers as it relates to their potential exposure in the laboratory to biohazardous agents, monitoring the result of an exposure, and arranging for and monitoring pre- and post-exposure prophylaxis where applicable. Please answer the following questions with respect to all biological agents listed on the permit.

1. Is medical surveillance, immunoprophylaxis and/or vaccine available/indicated for any of the biological agents or biological toxins listed on this permit?

Yes

No

2. Does your research involve biological agents or biological toxins with pre- and post-exposure prophylaxis (e.g., SARS CoV-2, HIV, Human T-lymphotropic virus (HTLV), Hepatitis A, Hepatitis B, Hepatitis C, Listeria, Mycobacterium tuberculosis, Q-fever (Coxiella), Rubella, Toxoplasma, Diphtheria, Vaccinia and/or Varicella)?

Yes

No

3. Does your research involve animals other than purpose-bred laboratory rodents, that might pose a risk of zoonotic pathogens.

Yes

No

4. Does your research involve human or non-human primate organs, tissues, whole blood, blood products and/or body fluid.

Yes

No

5. Have you informed individuals in the lab of the [Pregnancy Workplace Screening Tool for Pregnant Workers \(PDF\)](#) for individuals who are pregnant or planning to be pregnant and if hazards exist in the lab, they must consult with Occupational Health at U of T at [ehs.occhealth@utoronto.ca](mailto:ehs.occhealth@utoronto.ca) after completion of the form?

Yes

No

6. Have you informed all individuals in the lab, that if they are or become immunocompromised, they must consult with Occupational Health at U of T at [ehs.occhealth@utoronto.ca](mailto:ehs.occhealth@utoronto.ca).

Yes

No

**N – Declarations**

All researchers and their respective Departmental Chair/Faculty Dean or official designate must sign below.

As the **Principal Investigator** on this project, I declare that I am familiar with the contents of the **University of Toronto Biosafety program**, and that the above describes my research program, insofar as this includes the use of hazardous biological agents and materials, in its entirety. As the legally responsible individual I will ensure that all research and/or teaching conducted under my direction in the above laboratories and by the personnel listed, conforms to the standards set out in the **Biosafety Guidelines at the University of Toronto**, *as well as* provincial, federal and international policies and regulations that govern research involving biological agents. Any major deviation from the project, as originally approved, will be submitted to the biosafety office for review and approval by the Biosafety Review Committee prior to its implementation.

_____	_____	_____
<b>Name of Principal Investigator</b>	<b>Signature</b>	<b>Date</b>

As the **Departmental Chair/Faculty Dean**, I am aware of the proposed activity. My administrative unit will follow guidelines and procedures which ensure compliance with all relevant University, provincial, national or international policies and regulations that govern research with biological agents.

_____	_____	_____
<b>Name of Chair/Dean (or designate)</b>	<b>Signature</b>	<b>Date</b>

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_____	_____	_____
<b>Subject Matter Expert (if applicable)</b>	<b>Signature</b>	<b>Date</b>
_____	_____	_____
<b>University Biosafety Committee Veterinary Reviewer (if applicable)</b>	<b>Signature</b>	<b>Date</b>
_____	_____	_____
<b>University Local Biosafety Committee Member</b>	<b>Signature</b>	<b>Date</b>
_____	_____	_____
<b>University Local Biosafety Committee Chair</b>	<b>Signature</b>	<b>Date</b>
_____	_____	_____
<b>University Biosafety Officer</b>	<b>Signature</b>	<b>Date</b>

Conditions and/or Comments:

## **APPENDICES**



## APPENDIX I

### E – Project Title(s) and Funding Sponsor/Granting Agency Name(s)

Project Name

Funding Agency

Fund/Grant #

Dates Held

Project Name

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## APPENDIX II

**F – Project Locations (including rooms used for storage only, shared equipment rooms, etc.)**

[illegible]

## APPENDIX III

## H – Lab Personnel

[illegible]

## **APPENDIX IV**

### **Research Activities Involving Biological Agents**

Please use a WORD document to briefly outline the procedures which involve the use of biological agents including procedures involving animals used in conjunction with biological agents for each project. For work involving viral vectors, follow instructions in Appendix VIA.

### **Instructions for Appendix IV**

- 1) See guidelines provided by EHS for Appendix IV
- 2) Use a WORD document to outline the goal(s) and overview of the procedures used for each project and submit along with your permit application package.
- 3) Provide sufficient detail so that the Local Biosafety Committee reviewer can understand and evaluate the work without having to resort to external sources.
- 4) For protocols that are not widely used, include a reference.

## **APPENDIX IVA**

### **Research Activities Involving Viral Vectors**

Use the Viral Vectors subform (provided in the application package) to describe details of the viral vectors employed.

Fill one subform for each vector system used.

## APPENDIX V

### Materials in Use (continued from section K-II)

List the biological agents and/or materials currently used in the project(s).

[illegible]

## APPENDIX VI

## Stored Materials

List the biological agents and/or materials stored and **not** currently used in the project(s).

[illegible]

## APPENDIX VII

### Provisions for VIABLE human pathogens

It is important for people working with pathogens to be aware of symptoms of infection so that should they become infected, appropriate action can be taken. The information requested in the boxes refers to that for humans. EHS suggests using [PSDS](#), [CDC](#), or [Public Health Ontario](#).

Please list the following criteria for pathogenic risk group 2 agents listed in **Section K-II**:

	Infectious Agent 1	Infectious Agent 2	Infectious Agent 3	Infectious Agent 4	Infectious Agent 5
<b>Name of Biological Agent</b>					
<b>Mode of Transmission</b>					
<b>Incubation Period</b>					
<b>Period of Communicability</b>					
<b>Infectious Dose</b>					
<b>Typical Presenting Symptoms</b>					
<b>Mode of Decontamination</b>					
<b>Emergency Response</b>					