**BIOHAZARD PERMIT APPLICATION**

Concordia University Biohazards Permits are required for all research and teaching activities requiring Containment Level 1 and Containment Level 2. Please attach the Standard Operation Procedures (SOPs) and/or any other safety protocols that lab workers will follow when handling the biological materials specified in this application. Applications cannot be processed without these written procedures.

**Section 1: General Information**

|  |  |
| --- | --- |
| **Principal Investigator** |  |
| **e-Mail** |  |
| **Telephone** |  |
| **Department** |  |
| **Date of Application** |  |
| **Application Type\*** | [ ] New |
| [ ] Renewal | Permit Number |
| [ ] Amendment | Permit Number |

*\*For New applications, all information is required. For Renewals and Amendments, provide only changes in the information from the original application.*

# **Contact Person, if other than the Principal Investigator**

|  |  |
| --- | --- |
| **Contact Person** |  |
| **Department** |  |
| **Email** |  |
| **Office Phone** |  |

# **List projects (titles) associated with this permit application.**

Click here to enter text.

# **Laboratory location(s):**

|  |  |  |  |
| --- | --- | --- | --- |
| **Building** | **Room Number** | Is it a shared room?*Who is the room responsible? Did you get formal approval from the responsible?* | **Containment Level** |
|  |  |  | [ ]  1 | [ ]  2 |
|  |  |  | [ ]  1 | [ ]  2 |
|  |  |  | [ ]  1 | [ ]  2 |
|  |  |  | [ ]  1 | [ ]  2 |

## Section 2: Biological Agents

* ***Attach your materials inventory and return with your application.***
* *Indicate the Risk Group to which the biological agent/material is assigned.*

*For Risk Group information, consult the Public Health Agency of Canada’s Pathogen Safety Data Sheets at* [*http://www.phac-aspc.gc.ca/lab-bio/res/psds-ftss/index-eng.php*](http://www.phac-aspc.gc.ca/lab-bio/res/psds-ftss/index-eng.php) *or the* [*e-pathogen RG database*](https://health.canada.ca/en/epathogen)*.*

**Blood/Body Fluids/Tissues** [ ]  Not Applicable

|  |  |  |  |
| --- | --- | --- | --- |
| What type of blood? | [ ] Human  | [ ]  Animal | [ ]  N/A |
| What type of tissues? | [ ] Human  | [ ]  Animal | [ ]  N/A |
| What type of body fluids?  |  |
| Tissue characteristics |  |
| How is it acquired? |  |
| Where is it stored? (location) |  |

## Bacteria

##  [ ]  Not Applicable

|  |  |
| --- | --- |
| Strain Name | Source |
|  |  |
|  |  |
|  |  |

**Viruses**

[ ]  Not Applicable

|  |  |
| --- | --- |
| **Strain Name** | **Source** |
|  |  |
|  |  |
|  |  |

**Fungi/Yeast/Mould**

[ ]  Not Applicable

|  |  |
| --- | --- |
| **Strain Name** | **Source** |
|  |  |
|  |  |
|  |  |

**Parasites**

[ ]  Not Applicable

|  |  |  |
| --- | --- | --- |
| **Strain Name** | **Source** | **Host Range** |
|  |  |  |
|  |  |  |

## Cell Lines

##  [ ]  Not Applicable

|  |  |  |  |
| --- | --- | --- | --- |
| **Cell Line Name** | **Primary** | **Continuous** | **Source** |
|  | [ ]  | [ ]  |  |
|  | [ ]  | [ ]  |  |
|  | [ ]  | [ ]  |  |

## Recombinant DNA [ ]  Not Applicable

|  |  |  |
| --- | --- | --- |
| **Recombinant Agent** | **Source** | **Host Range** |
|  |  |  |
|  |  |  |
|  |  |  |

## Use of CRISPR / Cas9 technique [ ]  Not Applicable

|  |  |  |
| --- | --- | --- |
| **Gain (G) / loss (L) of function** | **Organism** | **Gene / function affected** |
|  |  |  |
|  |  |  |
|  |  |  |

## Use of Lentiviruses [ ]  Not Applicable

|  |  |  |
| --- | --- | --- |
| **Generation** | **Room # for handling** | **Host cell and target** |
|  |  |  |
|  |  |  |
|  |  |  |

## Others (e.g. toxins, plant pathogens) [ ]  Not Applicable

|  |  |
| --- | --- |
| **Type** | **Organism** |
|  |  |
|  |  |
|  |  |

## Section 3: Animals [ ]  Not Applicable

|  |  |
| --- | --- |
| **Type of animal(s) used** |  |
| **Will pathogens be introduced into the animal?** |  |
| **Materials tested on animals?** | [ ]  Chemical | [ ]  Biohazardous | [ ]  Radioactive |
| **Specify which one(s)** |  |  |  |

## Section 4: Importation/Exportation [ ]  Not Applicable

|  |  |  |
| --- | --- | --- |
| **Will the agent/material be imported?**  | [ ]  YES | [ ]  NO |
| **If yes, specify the country of origin**  |  |
| **Will the agent/material be exported?**  | [ ]  YES | [ ]  NO |
| **If yes, specify destination country**  |  |
| **Has an import/export permit been obtained from Health Canada for Human Pathogens?** | [ ]  YES | [ ]  NO |
| **Has an import/export permit been obtained from Canadian Food Inspection Agency?** | [ ]  YES | [ ]  NO | [ ]  N/A |

*Any person shipping or receiving biological material must be Transportation of Dangerous Goods (TDG) certified and must follow TDG regulations. Contact EHS at ext. 4877 for more details about TDG training.*

## Section 5: Biological Safety Cabinet [ ]  Not Applicable

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Model** | **Class/Type** | **Serial Number** | **Location** | **Certification Date** |
|  |  |  |  |  |
|  |  |  |  |  |

## Section 6: Standard Operating Procedures

*Attach the SOP(s) associated with working with the listed agents. Please indicate the titles of the SOP(s):*

## Section 7: Biohazardous Waste Disposal

*Biohazardous waste disposal is to be done according to Concordia University’s waste disposal guidelines and procedures. Please provide details of your projected biohazardous waste disposal needs.*

*Estimated kg of solid waste per year :*

*Waste management :* [ ]  *Autoclave* [ ]  *Through EHS biowaste program*

*Liquid decontamination :* [ ]  *Autoclave* [ ]  *Chemical disinfection (please detail below):*

## Section 8: Training

The following training are a **pre-requisite** for working with biological / hazardous materials:

* [WHMIS for Laboratory Personnel](https://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmoodle.concordia.ca%2Fmoodle%2Fcourse%2Fview.php%3Fid%3D43202&data=04%7C01%7Cfrederic.guilhem%40concordia.ca%7Ca532ab81b3d341f3127c08d9a318e0c4%7C5569f185d22f4e139850ce5b1abcd2e8%7C0%7C0%7C637720149504464121%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=SrMzIqlabj3OBNpMyQ%2BRkncSp0%2BncPRMADtxYlry9gA%3D&reserved=0) previously composed of 2 training (WHMIS + WHMIS2015), it has been updated and is now only “WHMIS for Lab personnel”. We’ve updated so PI and student would only have to go to 1 course and do 1 exam. Training validity is for 3 years.
* [Hazardous waste disposal for laboratory personnel](https://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmoodle.concordia.ca%2Fmoodle%2Fcourse%2Fview.php%3Fid%3D81427&data=04%7C01%7Cfrederic.guilhem%40concordia.ca%7Ca532ab81b3d341f3127c08d9a318e0c4%7C5569f185d22f4e139850ce5b1abcd2e8%7C0%7C0%7C637720149504474078%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=uOjsD%2BA4hKBArVCbwYQ743wizF0qQO4%2BNDFClFhVUxg%3D&reserved=0) : valid for 3 years
* [Safe Storage of Hazardous Materials](https://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmoodle.concordia.ca%2Fmoodle%2Fcourse%2Fview.php%3Fid%3D95195&data=04%7C01%7Cfrederic.guilhem%40concordia.ca%7Ca532ab81b3d341f3127c08d9a318e0c4%7C5569f185d22f4e139850ce5b1abcd2e8%7C0%7C0%7C637720149504484036%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=NEgU%2Bx4P%2F%2B43HH5nGdgr6xqCVql%2FJgCmrkzJwF973XU%3D&reserved=0)
* [EHS Biosafety](https://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmoodle.concordia.ca%2Fmoodle%2Fcourse%2Fview.php%3Fid%3D8648&data=04%7C01%7Cfrederic.guilhem%40concordia.ca%7Ca532ab81b3d341f3127c08d9a318e0c4%7C5569f185d22f4e139850ce5b1abcd2e8%7C0%7C0%7C637720149504493990%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=JkO65K3K2kzZmduZS67JG6bK46CWrZZIcex7HjU0ySE%3D&reserved=0) or [Biosafety Refresher](https://moodle.concordia.ca/moodle/course/view.php?id=127065)

The following training may be required, **depending on the material / equipment** you will use for your research:

* [Safe Handling of Blood](https://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmoodle.concordia.ca%2Fmoodle%2Fcourse%2Fview.php%3Fid%3D85044&data=04%7C01%7Cfrederic.guilhem%40concordia.ca%7Ca532ab81b3d341f3127c08d9a318e0c4%7C5569f185d22f4e139850ce5b1abcd2e8%7C0%7C0%7C637720149504503946%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=E8qeiXLzJ3QbQjos%2F0QRjfjnNqKdS7tKLoidGh4PlTU%3D&reserved=0) (if using primary cells, biopsies and samples from humans and non-human primates, like blood, saliva, etc.)
* [Safe Use of Biological Safety Cabinet](https://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmoodle.concordia.ca%2Fmoodle%2Fcourse%2Fview.php%3Fid%3D85043&data=04%7C01%7Cfrederic.guilhem%40concordia.ca%7Ca532ab81b3d341f3127c08d9a318e0c4%7C5569f185d22f4e139850ce5b1abcd2e8%7C0%7C0%7C637720149504503946%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=KhFrmjBP%2F1%2BqChjiK6NhOoEij68yy2uPuTMFVm1HwYs%3D&reserved=0) (for anyone using a biosafety cabinet)
* [Safe Handling of Nanomaterials](https://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmoodle.concordia.ca%2Fmoodle%2Fcourse%2Fview.php%3Fid%3D125386&data=04%7C01%7Cfrederic.guilhem%40concordia.ca%7Ca532ab81b3d341f3127c08d9a318e0c4%7C5569f185d22f4e139850ce5b1abcd2e8%7C0%7C0%7C637720149504484036%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=5bufIpqP3HUqygpqRfti8Mt7NrHw2N%2Bqp%2FhApUEp0OU%3D&reserved=0) (if using nanomaterials, in powder or dissolved in solution)
* [Corrosive Substances](https://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmoodle.concordia.ca%2Fmoodle%2Fcourse%2Fview.php%3Fid%3D86938&data=04%7C01%7Cfrederic.guilhem%40concordia.ca%7Ca532ab81b3d341f3127c08d9a318e0c4%7C5569f185d22f4e139850ce5b1abcd2e8%7C0%7C0%7C637720149504493990%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=4H5PofJE6LJpwD9XqXY8XIM%2B%2FXMD4bYwz%2FKat707I%2BY%3D&reserved=0) (with use of sulfuric acid, TMAH, HF, etc.)
* [Transportation of Dangerous Goods Class 6.2 – Infectious substances](https://moodle.concordia.ca/moodle/course/view.php?id=131728) (for anyone involved with shipping, handling, transporting or receiving biological material).

The following training is recommended as emergency preparedness:

* [Hazardous Materials Minor Spill Response Training](https://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmoodle.concordia.ca%2Fmoodle%2Fcourse%2Fview.php%3Fid%3D135418&data=04%7C01%7Cfrederic.guilhem%40concordia.ca%7Ca532ab81b3d341f3127c08d9a318e0c4%7C5569f185d22f4e139850ce5b1abcd2e8%7C0%7C0%7C637720149504474078%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=e%2BL3CRyDnzjYRay%2B8kTX62zJ%2FwAYSuZQZv4tfiDSD30%3D&reserved=0)

*You can register for training online at* [*concordia.ca/campus-life/safety/training.html*](http://concordia.ca/campus-life/safety/training.html)

## Section 9: Authorized Users

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Status  | ID Number | Will they work with… | Will they use a BSC? |
| Biological material? | Blood/Body fluids Primary cells |
|  | PRINCIPAL INVESTIGATOR |  |  |  |  |
|  |  |  | [ ]  | [ ]  | [ ]  |
|  |  |  | [ ]  | [ ]  | [ ]  |
|  |  |  | [ ]  | [ ]  | [ ]  |
|  |  |  | [ ]  | [ ]  | [ ]  |
|  |  |  | [ ]  | [ ]  | [ ]  |
|  |  |  | [ ]  | [ ]  | [ ]  |
|  |  |  | [ ]  | [ ]  | [ ]  |
|  |  |  | [ ]  | [ ]  | [ ]  |
|  |  |  | [ ]  | [ ]  | [ ]  |

*If more space is needed, please provide a complete list in a separate sheet.*

## Section 10: Signature

*The applicant acknowledges having read Concordia University’s Biosafety Policy (VPS-52), and warrants that the research and/or teaching activities using the above biological materials or agents will be carried out under his/her supervision in accordance with the requirements of the Canadian Biosafety Standards and Guidelines, Concordia University’s Biosafety Manual, and attached laboratory Standard Operating Procedures*

 Applicant’s Name Signature Date