# Potentially Hazardous Biological Agents Risk Assessment Form (6A)

Required for research involving microorganisms, rDNA, fresh/frozen tissue (including primary cell lines, human and other primate established cell lines and tissue cultures), blood, blood products and body fluids.
SRC/IACUC/IBC approval required before experimentation.

Student's Name(s) Zul Norin

Title of Project Controlling Coliform Contaminated Water through Mycofiltration

**To be completed by the QUALIFIED SCIENTIST/DESIGNATED SUPERVISOR in collaboration with the student researcher(s). All questions are applicable and must be answered; additional page(s) may be attached.**

**SECTION 1: PROJECT ASSESSMENT**

1. Identify potentially hazardous biological agents to be used in this experiment. Include the source, quantity and the biosafety level risk group of each microorganism.

   Escherichia coli K12 (1 tube: #155065) Carolina Supply Co.
2. Describe the site of experimentation including the level of biological containment.

   All experiments will be performed at microbiology lab bench within the science research lab (BSL-1)
3. Describe the procedures that will be used to minimize risk (personal protective equipment, hood type, etc.).

   Student will wear protective goggles, lab coat, and disposable gloves.
4. What final biosafety level do you recommend for this project given the risk assessment you conducted?

   Both organisms are exempt from pre-approval. Both are BSL-1.
5. Describe the method of disposal of all cultured materials and other potentially hazardous biological agents.
   Surface decontamination by flame sterilization, or use of 10% bleach. Autoclave all used materials.

**SECTION 2: TRAINING**

1. What training will the student receive for this project?
   Student will be trained by research teacher in microbiology techniques and safety procedures.
2. Experience/training of Designated Supervisor as it relates to the student's area of research (if applicable).
   Microbiology coursework, and microbiology work in biomedical laboratories(10 yrs), and mentoring microbiology projects in the high school laboratory (18 yrs).

**SECTION 3: For ALL CELL LINES, MICROORGANISMS AND TISSUES – To be completed by the QUALIFIED SCIENTIST or DESIGNATED SUPERVISOR - Check the appropriate box(es) below:**

☑ Experimentation on the microorganisms/cell lines/tissues to be used in this study will NOT be conducted at a Regulated Research Institution, but will be conducted at a (check one) ☑ BSL-1 or ☐ BSL-2 laboratory. This study has been reviewed by the local SRC and the procedures have been approved prior to experimentation.

☐ Experimentation on the microorganisms/cell lines/tissues to be used in this study will be conducted at a Regulated Research Institution and was approved by the appropriate institutional board prior to experimentation; institutional approval forms are attached.
Origin of cell lines:_____ Date of IACUC/IBC approval _____

☐ Experimentation on the microorganisms/cell lines/tissues to be used in this study will be conducted at a Regulated Research Institution, which does not require pre-approval for this type of study. The SRC has reviewed that the student received appropriate training and the project complies with ISEF rules.

**CERTIFICATION – To be SIGNED by the QUALIFIED SCIENTIST or DESIGNATED SUPERVISOR**

The QS/DS has seen this project's research plan and supporting documentation and acknowledges the accuracy of the information provided above. This study has been approved as a (check one) ☑ BSL-1/ ☐ BSL-2 study, and will be conducted in an appropriate laboratory.

Michael Vaccariello, PhD — Signature

QS/DS Printed Name

09/05/19

Date of review (mm/dd/yy)

**SECTION 4: CERTIFICATION – To be completed by the LOCAL or AFFILIATED FAIR SRC**

The SRC has seen this project's research plan and supporting documentation and acknowledges the accuracy of the information provided above.

Stephen Wefer, PhD — Signature

SRC Printed Name

09/05/19

Date of review (mm/dd/yy)