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) Rishitha Kudaravalli

Title of Project GFP Tagged Mitochondrial IMG1 and BSG1 Proteins Disrupt Normal Huntingtin Inclusion Body Formation in Saccharomyces cerevisiae

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.
   The PSHA risk in this project is recombinant yeast DNA. The clone collection was originally bought from Thermofisher Scientific and then transformed in the lab using Lithium Acetate. The genetically engineered yeast are considered BSL 1 and were treated as such. In this section of the experiment, about 45 transformations of different strains from the clone collection.
2. Describe the site of experimentation including the level of biological containment.
   The experiment was conducted at CUNY York College with a mentor.
3. Describe the procedures that will be used to minimize risk (personal protective equipment, hood type, etc.).
   The procedures used to minimize risk include using personal protective equipment such as gloves, lab coat and safety glasses, long pant and closed toed shoes.
4. What final biosafety level do you recommend for this project given the risk assessment you conducted?
   BSL 1
5. Describe the method of disposal of all cultured materials and other potentially hazardous biological agents.
   After the cells were done being observed, the recombinant yeast will be washed with ethanol and contained in a jar with bleach. Then it will be disposed of in red biohazardous waste bags and sent off site to be autoclaved and properly treated.

SECTION 2: TRAINING

1. What training will the student receive for this project?
   There will be procedural and safety training the occurs before any research takes place to ensure that correct protocols are followed.
2. Experience/training of Designated Supervisor as it relates to the student's area of research (if applicable).
   Currently studying and research Huntingtin IBs and has been researching cellular processes in neurons for five years

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.

Lesley Emtage
QS/DS Printed Name

Signature

6/20/19
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.

Maria P. Archdeacon
SRC Printed Name

Signature

1/28/20
Date of review (mm/dd/yy)