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) Ethan Chetkof

Title of Project Mitochondrial Transfer from Mesenchymal Progenitor Cells to Macrophages

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 project will involve use of a murine macrophage cell line obtained from the American Type Tissue Collection and a primary cell line provided by the mentor as a frozen stock, both with BSL-1 level risk.
2. Describe the site of experimentation including the level of biological containment.
   Experimentation is carried out in a BSL-2 level laboratory.
3. Describe the procedures that will be used to minimize risk (personal protective equipment, hood type, etc.).
   The student will wear a lab coat and gloves, Cell culture will be carried out using a BSL-2 level biological safety cabinet.
4. What final biosafety level do you recommend for this project given the risk assessment you conducted?
   BSL-2
5. Describe the method of disposal of all cultured materials and other potentially hazardous biological agents.
   All potentially hazardous material are disposed of in clearly marked biohazardous waste containers and are removed from the college by a licensed biohazardous material disposal company.

SECTION 2: TRAINING

1. What training will the student receive for this project?
   The student will be trained in person with a safety power point followed by a mandatory quiz.
2. Experience/training of Designated Supervisor as it relates to the student's area of research (if applicable).
   More than twenty years of experience in basic science and biomedical research.

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.

Jodi Evans — Jodi Evans
QS/DS Printed Name — Signature

06/10/19
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.

Matthew Christiansen — [signature]
SRC Printed Name — Signature

06/11/19
Date of review (mm/dd/yy)