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) Jordan Klein

Title of Project Prevalence of Tick-Borne Diseases in Fire Island Deer Ticks

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.
   Our laboratory is a BSL-2. Jordan never came into contact with live ticks or any live pathogens. Jordan only worked with extracted nucleic acids from microorganisms. Nonetheless, he learned to work under a class II biosafety cabinet, mostly to protect PCR from contamination.
2. Describe the site of experimentation including the level of biological containment.
   The laboratory is BSL-2 level, with several class II biosafety cabinets.
3. Describe the procedures that will be used to minimize risk (personal protective equipment, hood type, etc.).
   Lab coat and gloves
4. What final biosafety level do you recommend for this project given the risk assessment you conducted?
   The part of the project that Jordan performed (no live ticks or pathogens) can be table top procedure, but is best done in a biosafety cabinet to protect products from contamination
5. Describe the method of disposal of all cultured materials and other potentially hazardous biological agents.
   All laboratory waste is disposed of in red biohazard containers.

SECTION 2: TRAINING

1. What training will the student receive for this project?
   Microscopic tick identification, real-time PCR and qualitative PCR, nested PCR, biosafety and sterile technique training
2. Experience/training of Designated Supervisor as it relates to the student's area of research (if applicable).
   PhD in Microbiology

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.

Jorge Benach
QS/DS Printed Name

Signature

11/2/2019
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.

SRC Printed Name

Signature

Date of review (mm/dd/yy)