Risk Assessment Form (3)

Must be completed before experimentation.

Student's Name(s) Farihah Chowdhury

Title of Project Potential Pitfalls in Protein Crystallography

To be completed by the Student Researcher(s) in collaboration with Designated Supervisor/Qualified Scientist:
(All questions must be answered; additional page(s) may be attached.)

1. List all hazardous chemicals, activities, or devices that will be used; identify microorganisms exempt from pre-approval (see Potentially Hazardous Biological Agent rules).

   The student will work with the chemicals Ethylenediaminetetraacetic acid (EDTA) and egtazic acid (EGTA), and will operate beam lines at the National Synchrotron Light Source II (NSLSII) which give off radiation.

2. Identify and assess the risks involved in this project.

   The chemicals EDTA and EGTA are not harmful in small amounts, but they can be harmful in large amounts. The NSLSII gives off radiation in very small amounts that could be harmful as well.

3. Describe the safety precautions and procedures that will be used to reduce the risks.

   TLDs are devices that are worn to monitor and record radiation exposure, and these devices are closely monitored by Brookhaven National Lab. Gloves, safety goggles, lab coats, and safe disposal methods will be used to reduce the risks of the chemicals used.

4. Describe the disposal procedures that will be used (when applicable).

   EDTA and EGTA will be disposed of safely by disposing the chemicals in a separate safe container after use.

5. List the source(s) of safety information.

   www.bnl.gov and www.bnl.gov/ps/nsls2/about-NSLS-II.php

To be completed and signed by the Designated Supervisor (or Qualified Scientist, when applicable):
I agree with the risk assessment and safety precautions and procedures described above. I certify that I have reviewed the Research Plan/Project Summary and will provide direct supervision.

Victoria Hernandez — Designated Supervisor's Printed Name

Signature

01/15/19 — Date of Review (mm/dd/yy)

Research Teacher & William Floyd H.S. — Position & Institution

victoria.dambrosia@gmail.com — Phone or email contact information

trained to mentor, drive, and analyze data at crystallography beamlines — Experience/Training as relates to the student's area of research