Risk Assessment Form (3)

Must be completed before experimentation.

Student's Name(s) Maria Russotti

Title of Project Enhancement of Oxidoreductase Cofactor Systems for Enzymatic Activity with 3'NADP: A Novel Model for NAD-capped RNA

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).

   HCl and NaOH were used to titrate buffers
   E. coli was used as the host organism for our proteins and mutations
   Using the Bunsen burner for sterile technique is also potentially hazardous, but appropriate PPE and technique was employed.

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

   Risk include:
   Liquids Spilling: Most liquids used are buffers and can be dried up with paper towels. If acid is spilled, we must neutralize it first.
   Hot liquids could be spilled.
   Bunsen Burner
   Sybr Safe in Safety hood

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

   Sybr safe in safety hood
   appropriate use of PPE
   Use of heat protecting gloves when handling hot items

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

   Disposal in biohazard trash.
   Disposal of liquid in waste containers

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

   MSDS
   Safety training

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.

Salomon Vainstein	Digitally signed by Salomon Vainstein	07/02/19
Designated Supervisor's Printed Name	Signature	Date of Review (mm/dd/yy)

PhD Student at Columbia University	sv2530@columbia.edu
Position & Institution	Phone or email contact information

PhD Student in Chemical Engineering working in Protein Engineering Lab

Experience/Training as relates to the student's area of research