

## Risk Assessment Form (3)

Must be completed before experimentation.

Student's Name(s) Poojan Pandya

Title of Project CCDC11 Acts as a Scaffold to Assemble the ESCRT Membrane-Scission Machinery at Viral Budding Sites for HIV-1 Release: Identifying a Novel Therapeutic Strategy for Antiviral Therapy

**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).  
Dulbecco's Modified Eagle Medium (DMEM), Lysis Buffer (L7), Precipitation Buffer (N3), Fetal bovine serum (FBS), Polyethyleneimine, Methanol, 4',6-diamidino-2-phenylindole (DAPI), acetone, lysogeny broth, RNase A, Elution buffer (E4), TE buffer, DMEM, acrylamide, RNAiMAX, Opti MEM1, lipofectamine

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

When handling chemicals, appropriate protective attire will be used. These include gloves, goggles, aprons, closed-toed shoes, and long pants. No loose clothing will be worn and hair will be tied back. Hazardous chemicals will be properly disposed of in designated bins. Proper supervision will be provided at all times. Lysis Buffer (L7) may cause serious skin and eye irritation upon exposure. Protective gloves, goggles, and lab coats should be worn. Hands should be thoroughly washed after handling. Precipitation buffer (N3) may potentially lead to skin and eye irritation upon contact. Proper protective equipment should be utilized. Fetal Bovine Serum (FBS) may cause irritation if inhaled, swallowed, or comes in contact with skin and eyes. Eye protection and appropriate clothing should be used when handling. Polyethyleneimine may cause skin and eye irritation. It may also be harmful when ingested or inhaled. Proper protective equipment should be used when handling. Methanol may cause serious skin and eye irritation upon exposure. Damage may occur if inhaled or ingested. Protective gloves, goggles, and lab coats should be worn. It is flammable and should be kept from sources of ignition. Acetone may cause irritation if inhaled, swallowed, or comes in contact with skin and eyes. It is flammable and should be kept from sources of ignition. Lysogeny broth, RNase A, elution buffer, TE buffer, DMEM, RNAiMAX, Opti MEM1, lipofectamine, PBS, and goat serum are not hazardous but are potential skin and eye irritants.

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

Safety precautions must be taken when handling chemicals and appropriate protective attire must be worn at all times. These include, gloves, aprons, closed-toed shoes, and long pants. No loose clothing will be worn and hair will be tied back. Infections/hazardous wastes will be properly disposed of in designated bins. Proper supervision will be provided at all times.

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

All chemical and biological waste will be disposed of in designated waste bins and will be routinely collected by the Stony Brook University Environmental Health and Safety Department

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

[www.msds.com](http://www.msds.com)  
<https://ehs.stonybrook.edu>

**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.

Dr. Feng-Qian Li

*fengqianli*

06/01/19

Designated Supervisor's Printed Name

Signature

Date of Review (mm/dd/yy)

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Position & Institution

Phone or email contact information

10+ years experience in developmental, cell, and molecular biology

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