

Regulated Research Institutional/Industrial Setting Form (1C)

This form must be completed AFTER experimentation by the adult supervising the student research conducted in a regulated research institution, industrial setting or any work site other than home, school or field.

Student's Name(s) Poojan Pandya and Leo Takemaru

Title of Project

COVID-19 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 Supervising Adult in the Setting (NOT the Student(s)) after experimentation:

(Responses must be on the form as it is required to be displayed at student's project booth; please do not print double-sided.)

The student(s) conducted research at my work site:

1. Did you or your proxy (e.g. graduate student, postdoc, employee) mentor or provide substantial guidance to the student researcher? ☒ Yes ☐ No
 - a. If no, describe your and/or your institution's role with the student researcher and his/her project (e.g. supervised use of equipment on site without ongoing mentorship and sign below.
 - b. If yes, complete questions 2–5.
2. Is the student's research project a subset of your ongoing research or work? ☐ Yes ☒ No

Use questions 3, 4 and 5 to detail how the student's project was similar and/or different from ongoing research or work at your site.
3. Describe the independence and creativity with which the student:
 - a. developed the hypotheses or engineering goals for the research project

This research was a new, independent project in the lab, apart from the work we usually do on ciliogenesis and related ciliopathies. The students worked throughout the summer of 2019, and the project was developed based on the students' results from the previous year. The students fully developed and tested their hypothesis. The students often came in the lab on weekends during the school year to finish their project. I was impressed with their independence and diligent work ethic.
 - b. designed the methodology for his/her research project

The students, their research teacher, and I all contributed to the design of the specific experiments after discussion.
 - c. analyzed and interpreted data

The students independently analyzed and interpreted their data and shared ideas with me for feedback.

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4. Detail the student's role in conducting the research (e.g. data collection, specific procedures performed). Differentiate what the student observed and what the student actually did.

The students were involved in the design, execution, and data collection of all experiments. The students' experimental procedures included the generation of a knockout cell line in HeLa cells via CRISPR-Cas9 and the validation of this cell line via western blot, DNA sequencing, and immunofluorescence staining. The students also performed colocalization experiments and co-IP experiments.

5. Did the student(s) work on the project as part of a group?

☒ Yes ☐ No

If yes, how many individuals were in the group and who were they (e.g. high school students, graduate students, faculty, professional researchers)?

The two high school students and I worked collaboratively

I attest that the student has conducted the work as indicated above and that any required review and approval by institutional regulatory board (IRB/IACUC/IBC) has been obtained. Copies are attached if applicable.

I further acknowledge that the student will be presenting this work publicly in competition and I have communicated with the student research regarding any requirements for my review and/or restrictions of what is publicized.

Dr. Feng-Qian Li

fengqianli

Associate Professor of Research

Supervising Adult's Printed Name

Signature

Title

Stony Brook University

01/15/20

Institution

Date Signed (must be after experimentation) (mm/dd/yy)

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