

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) Vyom Shah

Title of Project Linking Diet and Cancer: Arachidonic Acid Augments Canonical Wnt Signaling to Enhance Stemness

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
Vyom developed this project on his own. I only set the limitation where his project had to be under the field of study of my lab. He conducted literature review and developed the goals of his project by himself.
 - b. designed the methodology for his/her research project
Vyom selected the methodology to test his hypotheses by himself. Once he was complete in building a procedure, I reviewed it and corrected any errors
 - c. analyzed and interpreted data
Vyom learned and conducted all analysis by himself. For the interpretation of the data, I solely confirmed or denied if his interpretations were correct and engaged in conversation on what the data could mean

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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.

Once instructing Vyom how to properly handle intestinal epithelial organoids he cultured them on his own under my supervision. He conducted library preparation for single cell RNA sequencing and CUT&RUN analysis on his own while under supervision. Core facilities of the lab sequencing RNA libraries and CUT&RUN samples. Vyom analyzed single cell RNA sequencing and CUT&RUN data on his own.

5. Did the student(s) work on the project as part of a group?
If yes, how many individuals were in the group and who were they (e.g. high school students, graduate students, faculty, professional researchers)?

☐ Yes ☒ No

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.

Semir Beyaz

Supervising Adult's Printed Name

Signature



Principal Investigator

Title

12/01/2019

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

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