

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) TongYe

Title of Project Investigations into the Significance of Epidermal Fatty Acid Binding Protein (FABP5) in Breast Cancer Survival and Design of Novel FABP5 Inhibitors

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

The research goal of the larger project is to investigate the FABP5 inhibitor anti-cancer effects in prostate cancers. The similar concept could be applied to certain type breast cancer, too. Tong is able to conduct the designed experiment after training. Moreover, her critical thinking brought many good questions. One valuable point is about the drug reaction time. When she transferring experimental protocols for prostate cancer cell lines to breast cancer cell lines, she was wondering if the drug would affect the cell proliferation similar as the breast cancer cell lines. In many cases of the medicinal chemistry/biology, the answer is no. So, she become the first in the lab to design and conduct a serious of experiments to validate her hypothesis.

- b. designed the methodology for his/her research project

In the scenario mentioned in 3.a., she was able to modify and improve the methodology/protocol not only to validate her hypothesis but also to make sense of all the observations

- c. analyzed and interpreted data

Tong is a fast learner. She is able to scientifically analyze the data and to dig out valuable information from the observation.

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Student's Name(s) TongYe

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.

Tong's work contributes to the project in many aspects. She is able to do experiment design, cell culture, cell viability test via MTT assay, data collection, data analysis to obtain IC50, result analysis to rationalize the efficacy of compounds of interest.

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.

HeheWang

Supervising Adult's Printed Name

StonyBrookUniversity

Institution

Department of Chemistry, SUNY at Stony Brook
Stony Brook, New York 11794-3400 USA

Address

Signature 

Ph.D. Candidate of Chemistry

Title

01/20/2020

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

Hehe. wang@stonybrook.edu

Email/Phone