

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) William Sun

Title of Project Lipid Droplets in the Aging Brain

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

When William came to my lab, I initiated the idea of examining changing of lipid droplet in the brain during aging. William, after extensive literature reading, designed the specific aims for this project.

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

William learned the basic skills for brain tissue slicing, immunostaining, and imaging from my postdoctoral fellow. After that he designed the protocols for his project.

- c. analyzed and interpreted data

William independently processed data and related analyses. He draw conclusions based on the results he obtained, and then revised slightly after discussed with my postdoctoral fellow and me.

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Student's Name(s) William Sun

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.

William learned required techniques from my postdoctoral fellow, and then carried the experiments by himself. That includes brain tissue slicing, immunostaining, taking imaging, and process imaging for lipid droplet quantification. He also wrote a script to facilitate data analyses. After discussion with my postdoctoral fellow and me, William plot results and draw conclusions.

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.

Qiaojie Xiong

Supervising Adult's Printed Name

Stony Brook University

Institution

100 Nicolls Road, Stony Brook, NY 11794

Address

Qiaojie

Signature

Digitally signed by Qiaojie
Date: 2020.01.07 18:02:56 -05'00'

Assistant Professor

Title

1/7/2020

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

qiaojie.xiong@stonybrook.edu

Email/Phone