

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) Chapin Zerner

Title of Project An Investigation into the Role of Synaptic Changes in the Inner Ear Supporting Seasonally Enhanced Acoustic Communication

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

Chapin read primary research articles on the background which informed the motivation, hypotheses and design of this research project.

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

His contributions to the development of the methodology were incredibly important. Chapin researched and developed a data analysis macro script for extracting information from image sets. He also wrote out image analysis pipeline protocols for future students in the lab to follow.

- c. analyzed and interpreted data

Chapin utilized recent and independently learned skills in data analysis using R to perform statistical tests and interpret the results of the project.

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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.

Chapin performed data analysis on images that required identification of biological structures, tracing and logging the results in a spreadsheet. He also helped develop a standardized approach to the image analysis, troubleshooting the software, communicating on research support forums and developing an original image analysis script to facilitate extraction of 3D information from a series of sequential 2D image slices. The student observe some of the processes involved in the histological preparation of biological samples and imaging.

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)?

Chapin worked directly under the supervision of my graduate student.

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. Paul Forlano

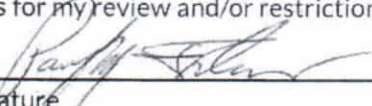
Supervising Adult's Printed Name

CUNY Brooklyn College Department of Biology

Institution

2900 Bedford Avenue, Brooklyn, New York 11210

Address

Signature 

Ph.D

Title

10/24/19

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

pforlano@brooklyn.cuny.edu

Email/Phone