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) Sophia Jang

Title of Project The effect of light on the epitranscriptome of plants

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

      Since we were working on a part of my ongoing research project, the outcome of all experiments was very open. We often encountered results that needed troubleshooting and adjustments of experimental conditions. Sophia showed right from the beginning that she understood the underlying biology of the experiments and suggested appropriate changes such as using different light conditions.

   b. designed the methodology for his/her research project

      The methodology used in this project was mainly suggested by me. However, we always discussed the experimental approaches and Sophia quickly grasped new techniques and used them independently.

   c. analyzed and interpreted data

      After a quick discussion on how the data is usually analyzed, Sophia presented me with suitable plots and used appropriate statistical methods to asses the significance of her data.

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Student's Name(s) Sophia Jang

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.

All data presented by Sophia was generated by herself. She was involved in the molecular cloning of plasmids, tobacco transformation, microscopy, and phenotyping Arabidopsis plants. Some plasmids has previously been cloned and she received appropriate germplasm from me.

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)?

Sophia worked as part of the Pedmale lab, which currently consists of 3 postdocatoral fellows and 2 doctoral students.

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.

Oliver Artz	O. M	Dr.
Supervising Adult's Printed Name	Signature	Title
Cold Spring Harbor Laboratory		1/28/2020
Institution		Date Signed (must be after experimentation) (mm/dd/yy)
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Address		Email/Phone