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) Sarah Keane

Title of Project The Effects of Membrane Stress and Defects on Lipoprotein Maturation of Acinetobacter Baylyi ΔInt

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.

      The student's experiments were carried out partially in my lab and in her high school lab. At school she was supervised by Ms. Mary Simons the student's teacher. Ms. Simons is trained in the techiques that Sarah used. The organism used is designated BSL1.

   b. If yes, complete questions 2 – 5.

2. Is the student's research project a subset of your ongoing research or work? 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. ☑ Yes ☐ No

3. Describe the independence and creativity with which the student:
   a. developed the hypotheses or engineering goals for the research project

      The student and I discussed various possible projects. Once she had some direction she developed a research question and hypothesis based on the work done in my lab.

   b. designed the methodology for his/her research project

      Sarah was given the standard work flow that is used in my lab. She was ultimately responsible for applying the specific protocols for her project based on the methods we commonly use in my lab and used those also at school.

   c. analyzed and interpreted data

      Sarah was responsible for analyzing and interpreting the data she collected. Once she gathered the data she presented it to me and we discussed her findings.

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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.

The student was responsible for making LB solutions and all agar plates needed for experimentation; including completing Kirby Bauer disk assays. She did all the plating of bacteria, microscope analysis, compiling and analyzing results. The student conducted all experiments and collected the data on her own.

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)?

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.

Professor Nathan Rigel
Supervising Adult's Printed Name

Signature

Associate Professor Biology
Title

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1/24/2020
Date Signed (must be after experimentation) (mm/dd/yy)

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