

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) Timothy Liu

Title of Project Synthesis and Analysis of a Novel Biodegradable Polyester Fiber Scaffold Derived from Poly(glycerol sebacate)

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

Student developed an engineering goal based on my research which is to optimized the thermal properties of our current polymer system.

b. designed the methodology for his/her research project

Student designed methodology based on my research and the literature.

c. analyzed and interpreted data

Was taught how to analyze data with computer programs, then analyzed and interpreted data himself. Student occasionally asked for background information to aid in conclusions.

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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.

Student performed most of synthesis reaction, massing monomers and altering synthesis conditions when necessary, with the exception of changing pressure during off hours. Student set up and ran assays, massing and dissolving polymer in order to run DSC, GPC, and NMR. Student found the optimized molecular structure for this application.

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.

Kening Lang

Supervising Adult's Printed Name

Signature

Research Assistant

Title

Rensselaer Polytechnic Institute

01/20/2020

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

Institution

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