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) Mansi Kothari

Title of Project The Effects of Global Knockdown of Cytochrome C Oxidase Assembly Protein (SCO2) in Diabetic Kidney Disease

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

      Mansi was tasked with reading the literature pertaining to mitochondrial involvement in diabetic nephropathy. She also was tasked with reviewing the work that has already been done in our lab. At the time there were equivocal results with our type 1 diabetes model which gave her a bit of freedom in terms of developing a hypothesis. She set out to ascertain which of the metabolically active cells in the kidneys would be effected when SCO2 was mutated in type 2 diabetic nephropathy.

   b. designed the methodology for his/her research project

      Mansi followed preset protocols to do immunofluorescence staining however she had some freedom picking the types of antibodies to use.

   c. analyzed and interpreted data

      Mansi did all quantifications and used Graph Pad Prism to do her statistical analysis. She had some help determining which statistical test to use.

(Continued on next page)

Regulated Research Institutional/Industrial Setting Form (1C) Continued

Student's Name(s) Mansi Kothari

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.

Mansi stained all slides (PAS & immunofluorescence), took images with the microscope, did quantifications using image J, plotted graphs, and did stastistical analysis. Additionally she was tasked with genotyping.

Mansi observed albumin ELISAs, creatinine assays, and mitochondrial isolations.

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.

Jessica Vasquez, MD Supervising Adult's Printed Name	Signature	Post Doctorate Associate Title
Stony Brook University Institution		08/30/19 Date Signed (must be after experimentation) (mm/dd/yy)
100 Nicolls Rd, Health Sciences Center T-17-090, Stony Brook, NY, 11794 Address		Jessica.Vasquez1@stonybrookmedicine.edu/ 631-638-2168 Email/Phone