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)		nt's Name(s)	Rebecca Zhang					
Tit	Title of Project		Genetic Variation for Sexual Dimorphism in Drosophila melanogaster					
			the Supervising Adult in the Setting (NOT the Student(s)) after experimentation: n the form as it is required to be displayed at student's project booth; please do not print double-sided.)					
 Did you or your proposed substantial guidar a. If no, describe his/her project 		l you or your pr estantial guidar If no, describe	ted research at my work site: roxy (e.g. graduate student, postdoc, employee) mentor or provide nce to the student researcher? e your and/or your institution's role with the student researcher and et (e.g. supervised use of equipment on site without ongoing mentorship ex.	U	Yes		No	
	b.	If yes, comple	te questions 2 – 5.					
2.	Use	e questions 3, 4	search project a subset of your ongoing research or work? and 5 to detail how the student's project was similar and/or going research or work at your site.	Ø	Yes		No	
3.	De:		pendence and creativity with which the student: hypotheses or engineering goals for the research project					
		a research pro the hypothesi recognized ap	verall purpose of the research, and Rebecca suggested oject as a subset of the overall work. She determined is and engineering goal, and I confirmed them. She also oplications towards humans with her background in eading related research papers.					
	b.	designed the	methodology for his/her research project					
		research pap to conduct so	estigated procedures used in her project from other ers, adapting them for her project, and I explained how ome of the procedures, such as demonstrating a advised her on which procedures were better suited for					
	c.	analyzed and	interpreted data					
		code for ANC ANOVA resul	coding in R for Anova. Rebecca learned R, wrote some DVA, and I looked over her code. Rebecca analyzed the ts and determined some conclusions on her own. We big picture conclusions together.					

(Continued on next page)

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

Rebecca	Zhang
	Rebecca

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.

Rebecca worked independently and led her own research project, with minimal guidance. She collected and recorded her own data. She implemented the procedures herself. For her dissection procedure, she carefully used a tweezer to transfer fruit fly bodies from the microtubes to the microscope slides. She used tweezers to remove the wings and abdomens without damaging them. She discarded the remaining parts in a jar of 95% ethanol. She measured the wing length as a body size proxy using the program AxioVision Rel. 4.8 with the scaling set calibrated with a 0.01 mm ruler under 5.0 magnification. She counted the abdominal bristles directly under the microscope. She coded in R for an ANOVA test, considering the factors of line and sex as fixed, and vial as random. From her analysis, she considered the significance of the wing lengths, abdominal bristle counts, and abdominal bristle counts divided by wing lengths to factor out size dimorphism.

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.

John True

Supervising Adult's Printed Name

Stony Brook University

Institution

Dept, of Ecology & Evolution 650 Life Sciences Stony Brook NY 11794-5245

Address

Associate Professor

Title

11/02/19

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

John.true@stonybrook.edu

Email/Phone