

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) Jonathan Leung

Title of Project Detection of Amyloid Plaques Targeted by USPIOs and ARIA Evaluation in a Non-Human Primate Model of Sporadic Cerebral Amyloid Angiopathy (CAA)

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

Jonathan worked with the ongoing hypothesis we had developed over our years of research. He did however show independence in inferring other potential effects of the nanoparticle compound that was used.

- b. designed the methodology for his/her research project

Jonathan was trained by graduate students on methods used in the experiments. After being trained, he developed different immunohistochemical and MRI analysis methodologies for his project.

- c. analyzed and interpreted data

Jonathan learned how to properly interpret data from a graduate student, after which he analyzed and interpreted the data on his own, which was then checked over by me or graduate students.

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Student's Name(s) Jonathan Leung

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.

Jonathan analyzed scans, averaged MRI data through ImageJ, performed immunohistochemical stains, and oversaw or helped with the work of other undergraduate and graduate students. Jonathan developed different immunohistochemical staining protocols, as well as optimizing different stains such as Perls' Prussian Blue for labelling iron in squirrel monkey brain tissue. Jonathan was not at all involved with any of the procedures performed involving the injection of compound in squirrel monkeys. Jonathan only worked with the tissue samples that were provided to him, and developed/optimized histological stains that could be used for better comparison to MRI scans for determining the efficacy/accuracy of the USPIO-PEG-A β compounds injections done. Overall, Jonathan took the project that was assigned to him, and developed/optimized procedures and standards to obtain results that could assist the study - specifically that of our ongoing MRI compound study for the potential use in Alzheimer's disease patients.

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)?

Jonathan worked with me, two graduate students, and multiple undergraduate students. Over the course of his time working on the research project, only one graduate student, Thomas Genovese, was directly helping him with his project in addition to me.

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.

Henrieta Scholtzova

Supervising Adult's Printed Name

NYU School of Medicine

Institution

435 East 30th Street, Science Building Rm. 1015, New York, NY 11016

Address

Henrieta Scholtzova

Signature

Digitally signed by Henrieta Scholtzova
Date: 2019.11.25 19:32:57 -05'00'

Associate Professor (Research)

Title

09/02/19

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

henrieta.scholtzova@nyulangone.org / 732.306.1307

Email/Phone