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) Daniel Khaykin

Title of Project SETD8 and P53 Correlations in Multiple Myeloma

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? 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 was involved in pursuing the hypotheses that SETD8 protein expression correlates with t (11;14), t(14;16), and P53 aberration, including mutation and 17p loss

   b. designed the methodology for his/her research project

      The student was involved in the methodology of staining plasma cell myeloma bone marrow samples, by first helping the Pathology Core Lab titrate the antibody for optimum staining on thyroid and tonsil tissue controls, bone marrow initial control samples with low, medium and high disease burden, then stain 60 initial samples including 30 with P53 aberrations, 10 with t(11;14), 10 with t(14;16), and 10 with no aberrations.

   c. analyzed and interpreted data

      The student will help analyze and interpret staining localization and scoring with the Hematopathologists, if initial data shows positive significant correlations, a total of 288 block samples are available to stain and analyze for robust statistical significance. Digital analyses will be set up for additional semi-quantitation and statistical significance.

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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 active in data collection including pathology data points (% biopsy, % smear, % cellularity, IHC, BM smear differential, growth pattern, plasma cell morphology, mitotic count, fibrosis, etc) and molecular data points including mutations, FISH, karyotype, myPRS scores, high risk, low risk). Initial data is now published in Modern Pathology Aug 2 Epub ahead of print. The student has now pulled 288 blocks for further staining of SETD8 and correlation with molecular aberrations including t(11;18), t(14;16) and P53 aberrations.

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)?

NERA college students, Pathology residents, Hematopathology fellow, Faculty, Professional research investigators

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.

Dr. Julie Teruya-Feldstein	Julie Feldstein	Director Hematopathology
Supervising Adult's Printed Name	Signature	Title
Mount Sinai Icahn School of Medicine		8/24/19
Institution		Date Signed (must be after experimentation) (mm/dd/yy)
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