Fruit Fly Genomics

Introduction to Research and Genetics
(Rising High School Sophomores, Juniors, and Seniors)

Description
This laboratory project-based course teaches the fundamentals of designing and carrying out all aspects of a scientific investigation. Students will work with Drosophila, or Fruit Flies, to learn basic genetic theories and the scientific process of a descriptive investigation.

Highlights

- Hands-on laboratory work
- Work with a dyad partner
- Establish a research study
- Collect and analyze data
- Perform database searches on-line and at the Levy Library
- Integrate background reading into project
- Get to know the Mount Sinai campus and its facilities
- Meet Mount Sinai Research faculty

Requirements

- Full attendance
- Maintain a detailed logbook
- Regular oral and written progress reports
- Completion of pre/post tests
- Completion of a final written and oral research report

Eligibility

- Demonstrated interest in biomedical sciences and research
- Must be a rising high school sophomore, junior or senior, with a minimum GPA of 80
- Must be an under-represented minority and/or economically disadvantaged

The application must include:

- At least one letter of recommendation from a science teacher, math teacher, or other applicable professional
- A personal essay expressing how this course will help the student pursue a specific career in the health field and the student reach his or her goals
- A fully completed application form (including signed consent forms: parental/medical/publicity)
- Copy of the student’s latest transcript