



SUMMER 2025 EARLY RESEARCH SERIES

Hosted by the Department of Biology • College of Staten Island, CUNY

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Cell Biology and Microscopy

Program Description: Cell Biology is the foundation for understanding the biological function in normal and disease states. This early research opportunity is offered by the Center for Developmental Neuroscience and the Department of Biology to high school, undergraduates, and graduates interested in hands-on research experience in cell biology. Students will learn how to study molecular and cellular components and processes of the cell. The proposed workshop will also provide skills in microscopy. The students will apply these techniques to gain experience in cell biology and lab skills.

Students will participate in experiments, submit a final report, experience college life, and receive contact and guidance from the Director/Instructor, technician, postdocs, and graduate students who participate in Summer 2025 research.

Objective: To train students in common cell biological techniques

Location: In person, Biological and Chemical Sciences Building, 6S

Parking: Lot 2, adjacent to Building 6S

Eligibility: High school students who have taken a year of Biology, undergraduates, graduate current college students

To Apply: Please use the following application link: <https://forms.office.com/r/4RDw9S9fJF> or scan the QR Code below. Please apply by June 13.

Number of Hours: 24 • **Number of Seats:** 24

Dates: Two-week program, June 16–19, 23–26, Monday –Thursday from 6:00–9:00 PM

Adjunct Instructor: Nicole LaMassa, Lecturer; Dept. of Biology • nicole.lamassa@csi.cuny.edu

Course Materials: Lab protocols will be provided before each lab session. You will need a lab notebook to keep detailed notes of every experiment.

Sessions: The instructor will provide an overview of the lab procedure and its application to cell biological research. Students will be required to understand each of the concepts presented. The students will then perform the procedures according to the lab protocol provided. During the experiment, the students will keep detailed notes of their activities.

Attendance/participation: Attendance and participation is a requirement of the lab course.

Recognition: Students receive a frameable Certificate of Completion

Lab fee and materials: Discounted lab fee of \$490.00 • Credit Card payment available online. Please create an account using the following link, and log back in to submit payment:

<https://ce.cuny.edu/csi/coursedisplay.cfm?schID=128252>

OR save the credit card fee and pay by check or money order in person to the Continuing Education Office in 1A-204 or to the Bursar in 2A-Atrium.

Discount: We will offer a 20% discount to any student who previously completed a paid Early Research Opportunity or plans to participate in multiple paid programs this summer. Please let us know the name of the course and the dates you attended.

Questions? Email or call Holly Block: holly.block@csi.cuny.edu • 347-443-8699

An Early Research Opportunity offered by the Department of Biology, College of Staten Island, CUNY

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METAGENOMICS: DNA SEQUENCING

Hands-On Science • Real-World Skills

DISCOVER THE HIDDEN WORLD OF MICROBES!

Join our exclusive summer research workshop in Metagenomics — the study of microbial DNA from the environment and the human body.

WHAT YOU'LL DO

- Extract microbial DNA
- Use PCR to amplify and analyze genes
- Use Agarose Gel Electrophoresis to visualize PCR products
- Use Nanodrop to assess DNA quality and concentration
- Identify bacteria using bioinformatics tools
- Learn cutting-edge techniques in a real lab

YOU'LL RECEIVE

- A Frameable Certificate of Completion
- Research Experience for College & Career
- Mentorship from Biology Faculty Experts

WORKSHOP DETAILS

When: July 8–31, 2025 (Tuesdays & Thursdays: 2:00–4:00 PM)

Where: In person, Biological and Chemical Sciences Building (6S), Room 144–145, College of Staten Island

Time Commitment: 16 hours (lecture + lab)

Size: Only 24 seats – first come, first served!

Cost: \$550.00 (Compare to \$3,000+ elsewhere). Online payment process available via credit card. Please create an account using the following link, and log back in to submit payment:

<https://ce.cuny.edu/csi/coursedisplay.cfm?schID=128169>

OR save the credit card fee and pay by check or money order in person to the Continuing Education Office in 1A-204 or to the Bursar in 2A-Atrium.

****20% discount for returning students or students participating in two or more research opportunities!****

Apply Online Now: <https://forms.office.com/r/PtbnwBd3i6>

Application Deadline: Tuesday, July 1, 2025

FACULTY MENTORS

Dr. Faiza Peetz, MD; Professor of Biology

Dr. Chang-Hui Shen, PhD; Professor of Biology and Chair

QUESTIONS?

Email: Holly Block • holly.block@csi.cuny.edu

Learn more: www.csi.cuny.edu/Biology

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