

CURRICULUM VITAE

AVRAMI AHARONOFF

21-33 Steinway Street
Astoria, NY 11105
(718) 808-3715
aaharonoff@nyu.edu

LEGAL NAME

Abraham

CITIZENSHIP

United States of America

CURRENT POSITION

PhD candidate | laboratory of Sevinç Ercan | Department of Biology, New York University

EDUCATION

New York University, current, **PhD**, Biology

Queens College, CUNY, 2016, **BA**, Neurobiology, *summa cum laude*, honors thesis

RESEARCH

PhD candidate, current | *Department of Biology, New York University*

Laboratory of Sevinç Ercan, PhD | Evolutionary history of dosage compensation in nematodes

Assistant Research Scientist, 2018–2019 | *Department of Chemistry, New York University*

Laboratory of Nicholas Geacintov, PhD | DNA repair of bulky and non-bulky chemical adducts in human cell lines

Undergraduate Research Assistant, 2013–2015 | *Department of Chemistry and Biochemistry, Queens College, CUNY*

Laboratory of Thomas Streckas, PhD | Effect of polycationic ligands on the affinity of ruthenium(II) probes to DNA

GRANTS, FELLOWSHIPS, AND AWARDS

Fleur Strand Graduate Fellowship, 2023 | *Department of Biology, New York University*

Young Investigator Travel Award, 2023 | *Society for Molecular Biology and Evolution*

Training Grant in Developmental Genetics, two years, 2021 | *Grossman School of Medicine*

PUBLICATIONS

3. Kolbanovskiy, M., **Aharonoff, A.**, Sales, A. H., Geacintov, N., Shafirovich, V. Recognition and repair of oxidatively generated DNA lesions in plasmid DNA by a facilitated diffusion mechanism. *Biochem J*, BCJ20210095 (2021).
2. Kolbanovskiy, M., **Aharonoff, A.**, Sales, A. H., Geacintov, N., Shafirovich, V. Base and nucleotide excision repair pathways in DNA plasmids harboring oxidatively generated guanine lesions. *Chem Res Toxicol* **34**, 154-160 (2021).
1. Kolbanovskiy, M., **Aharonoff, A.**, Sales, A. H., Geacintov, N., Shafirovich, V. Remarkable enhancement of nucleotide excision repair of a bulky guanine lesion in a covalently closed circular plasmid relative to the same linearized plasmid. *Biochemistry* **59**, 2842-2848 (2020).

TALKS

2. New York Area Worm Meeting, selected talk, 2023
1. Evolutionary Biology of *Caenorhabditis* and Other Nematodes, selected talk, 2023

POSTERS

6. (anticipated) **Aharonoff, A.**, Kim, J., Washington, A., and Ercan, S. SMC-4 duplications in nematodes highlight the remarkable ability of SMC proteins to gain new functions. Biology of Genomes, Cold Spring Harbor Laboratory, May 2024.
5. Sadri, N., **Aharonoff, A.**, Ritter, D., and Ercan, C. Analyzing chromatin accessibility in *C. elegans* using ATAC-seq. TAGC, Washington D.C., March 2024.
4. **Aharonoff, A.**, Kim, J., and Ercan, S. Recent origins of condensin mediated dosage compensation. Society for Molecular Biology and Evolution, Ferrara, Italy, July 2023.
3. **Aharonoff, A.**, Jimenez, D. S., and Ercan, S. CUT&Tag in *Caenorhabditis elegans*. 23rd International *C. elegans* Conference, virtual, June 2021.
2. **Aharonoff, A. A.**, and Strekas, T. C. Fluorescence titration determination of binding constants for ruthenium(II) complexes with calf thymus DNA. Northeast Regional Sigma Xi Conference, Western Connecticut State University, April 2015.
1. **Aharonoff, A. A.**, and Strekas T. C. Fluorescence titration determination of binding constants for ruthenium(II) complexes with calf thymus DNA. Sigma Xi Research Poster Session, Queens College/City University of New York, April 2015.

WORKSHOPS ATTENDED

Workshop on Molecular Evolution, Marine Biological Laboratory, Woods Hole, MA, 2023
Workshop in Biotechnology, Hunter College, CUNY, New York City, NY, 2018

TEACHING

BIO 223	Molecular and Cellular Biology laboratory <i>New York University</i>
BIO 16	Molecular and Cellular Biology I recitation <i>New York University</i>
BIO 11	Principles of Biology I recitation <i>New York University</i>
BIO 326	Anatomy and Physiology II laboratory for biology majors <i>Queens College, CUNY</i>
BIO 325	Anatomy and Physiology I laboratory for biology majors <i>Queens College, CUNY</i>

BIO 41 Anatomy and Physiology II laboratory for non-majors | *Queens College, CUNY*
BIO 40 Anatomy and Physiology I laboratory for non-majors | *Queens College, CUNY*

MENTORSHIP AND SERVICE

Undergraduate students supervising

Nadia Sadri, Aaliyah Washington, Vincent Qui, Amaan Rather

Summer Undergraduate Research Program (SURP) mentor, 2021, 2023 | *New York University*

Applied Research Innovations in Science and Engineering (ARISE) mentor, 2022 | *New York University*