

Abigail Clyde
Seattle, WA
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Education

University of Washington, Seattle WA

MD-Ph.D. (June 2024 – Present)

- MD (in progress)
- Ph.D. Molecular and Cellular Biology Graduate Program (in progress)
- Thesis Advisor: Harmit Malik, Ph.D., Basic Sciences Division, Fred Hutchinson Cancer Center

University of Pennsylvania, Philadelphia PA

B.A. in Biology (Aug. 2018- Dec. 2021)

- Summa Cum Laude, Distinction in Major
- Chemistry Minor
- GPA 3.89, STEM GPA 3.86

Phillips Exeter Academy, Exeter NH

Highest Honors (2014-2018): GPA 10.3/11

Relevant Courses

Vertebrate Anatomy and Physiology (Spring 2019)
Cellular Biology (Fall 2019)
Evolutionary Biology (Spring 2020)
Molecular Biology and Genetics (Fall 2020)
Comparative Vertebrate Anatomy and Evolution (Spring 2021)
Biochemistry (Fall 2021)
Evolution and Ecology of Infectious Diseases (Fall 2021)
Biology Independent Study (Fall 2021)
Foundations of Medical Research (Summer 2024)
Infections and Immunity (Fall 2024)
Biomedical Research Integrity (Summer 2025)

Research

Graduate Researcher, Fred Hutchinson Cancer Center, Seattle WA (Mar. 2026-Present)

Advisor: Harmit Malik, Ph.D., Basic Sciences Division

- Development of high throughput screen for viral derived antiviral peptides with dominant negative effects in vesicular stomatitis virus.

Research Technician, Fred Hutchinson Cancer Center, Seattle WA (Sept. 2022-May 2024)

Lab of Dr. Lillian Cohn, Ph.D., Vaccine and Infectious Disease Division

- Development of viral RNA deep sequencing protocol and implantation to understand how HIV-1 escapes broadly neutralizing antibody treatments in clinical trial cohorts.

- Techniques included: PCR, RNA extraction, Illumina sequencing prep, PacBio long read sequencing prep, computational pipeline development, sequencing and phylogenetic analysis.
- BSL 2+/3 certified

Independent Research, Children’s Hospital of Philadelphia and the University of Pennsylvania School of Dental Medicine, Philadelphia PA (Aug. 2019 – Mar. 2022)

Lab of Dr. Judith Grinspan, Ph.D. and Dr. Kelly Jordan-Sciutto, Ph.D.

- Investigation of effects of antiretroviral drug bictegravir on oligodendrocyte maturation in the brain
- Techniques included: primary oligodendrocyte rat cell culture, immunocytochemistry, Western Blot protein molecular assays, rat and mouse husbandry and procedures, cryostat sectioning of mouse and rat brains, nanofiber culture system, confocal microscopy, data analysis
 - Summer 2019 – Funded by Penn Undergraduate Research Mentorship (PURM) grant (University of Pennsylvania)
 - Fall 2019-Spring 2021 – Part-time student lab assistant
 - Summer 2021 – Full-time student lab assistant
 - Winter 2022 (present) – Lab research assistant I

Independent Honors Thesis, University of Pennsylvania

Lab of Dr. Judith Grinspan, Ph.D., Advised by Dr. Michael Lampson, Ph.D., Dr. Grinspan, Ph.D., and Dr. Jordan-Sciutto, Ph.D.

- The Effect of Antiretroviral Bictegravir on Differentiating and Mature Oligodendrocytes
- Techniques included: primary oligodendrocyte rat cell culture, immunohistochemistry, Western Blot protein molecular assays, microscopy, data analysis
 - Fall 2021 – Independent research course, 1 credit for semester research project

Publications

Romero EV*, **Clyde AE***, Giorgi EG, Westfall DH, Azam W, Taylor ML, Caskey M, Feder AF, Cohn LB. Recurrent mutations drive rapid HIV escape from two broadly neutralizing antibodies *in vivo*. *Proc. Nat. Acad. Sci.* **In press**. 10.1101/2025.08.29.673185. Epub 2025 Aug 30.

Festa LK, **Clyde AE**, Long CC, Roth LM, Grinspan JB, Jordan-Sciutto KL. Antiretroviral treatment reveals a novel role for lysosomes in oligodendrocyte maturation. *J Neurochem.* 2023 Jun;165(5):722-740. doi: 10.1111/jnc.15773. Epub 2023 Feb 16. PMID: 36718947.

Posters

Clyde A, Festa L, Roth L, Jordan-Sciutto K, Grinspan J (2021). *Effects of Antiretroviral Bictegravir on Differentiating and Mature Oligodendrocytes*. Poster presentation at the Society for Neuroscience November 11th, 2021, Chicago, IL (virtual). Abstract P321.03

Travel initially funded by the University of Pennsylvania College of Arts and Sciences Travel Grant for Academic Conferences

Festa L, **Clyde A**, Long C, Roth L, Grinspan J, Jordan-Sciutto K (2021). *Bictegravir-mediated Lysosomal De-acidification Inhibits Oligodendrocyte Maturation and Autophagic Flux*. Poster

presentation at the Society for Neuroscience November 11th, 2021, Chicago, IL (virtual).
Abstract P321.02

Clyde A., Patel J, Roth L, Jordan-Sciutto K, Grinspan J (2019). *The Effects of Antiretroviral Therapies, Dolutegravir and Bictegravir, on Oligodendrocyte Maturation*. Poster presentation at Penn Undergraduate Research Fall Expo, September 2019.

Honors and Awards

Summa Cum Laude, University of Pennsylvania (2021)
Penn Undergraduate Research Mentorship Grant (2019)
Cum Laude Society (2018), Phillips Exeter Academy

Extracurricular Activities

U-Test HIV Testing, UW Lead (2024-present)
UW MSTP Recruitment Volunteer (2024-present)
UW Positive Research Coordinator, Volunteer (2023-2024)
People's Harm Reduction Alliance needle exchange, volunteer (2022-2024)
University of Pennsylvania Outdoors Club Executive Board Member and Gear Manager (2020-2021)
Penn for Warren Founder and President (2019-2020)
University of Pennsylvania Democrats, Current Events Senior Deputy (2018-2020)