



FRED HUTCH
Office of Education & Training
Quarterly Newsletter



Summer 2021

The Fred Hutch Office of Education & Training (OET) quarterly newsletter brings you highlights, resources and updates from the educational initiatives at Fred Hutch.

Newsletter at a glance

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The Fred Hutch Office of Education & Training (OET) houses programs committed to training the next generation of scientists. The OET programs span the biomedical disciplines and research interests pursued at Fred Hutch — from basic, human biological, clinical, and public health sciences research to a range of cancers and infectious diseases — with a commitment to increasing access and creating pathways for those trainees historically excluded. The activities and training opportunities include:

- *Office of Science Education and Training (SciEd) - [internships](#) and programs for science [teachers](#), [high school students](#) and [undergraduates](#)*
- *[Office of Graduate Education \(OGE\)](#) - graduate student administration and professional development*
- *[Office of Scientific Career Development \(OSCD\)](#) - graduate student and postdoctoral fellow professional development*
- *[Faculty Development Program](#) - faculty training, mentoring and leadership development*

For more information on programming available at each level please visit [our website](#).

Fred Hutch welcomes 184 trainees and teachers this summer!

The programs in the Office of Education and Training started off Summer 2021 by welcoming 184 teachers, and high school, undergraduate and graduate students!

77 High School Students:

[Summer High School Internship Program](#) (20)
[Pathways Research Explorers](#) (37)
[Coding for Cancer](#) (20)

54 Undergraduate Students:

[Pathways Undergraduate Researchers](#) (29)
[Summer Undergraduate Research Program](#) (25)

26 Secondary School Teachers:

[Science Education Partnership](#) (22)
[Hutch Teacher Fellowship](#) (4)

27 Graduate Students: (*joining our 124 graduate students already in labs on campus*)

Rotation Students (7)

UW Medical Scientist Training Program (7)

Permanent Students (20)

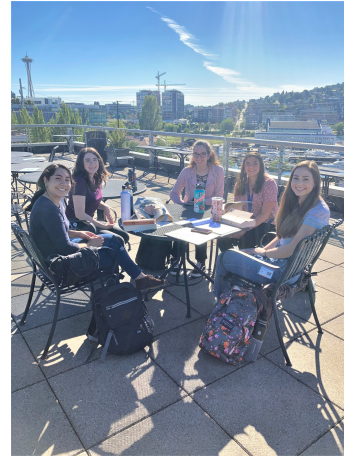
UW Molecular & Cellular Biology (10)

UW Molecular Medicine & Mechanisms of Disease (3)



Teacher running gel electrophoresis during the Science Education Partnership summer session

UW Biological Physics, Structure & Design (1)
UW Pathobiology (1)
UW Microbiology (1)
UW Immunology (1)
UW Bioengineering (1)
UW Genome Sciences (1)
Duke University (1)



Undergraduate students from the Summer Undergraduate Research Program



Summer High School Internship and Pathways Undergraduate Internship Programs



Summer Undergraduate Research Program 2021 Cohort



Interns Summer 2021 session



Science Education Partnership 2021 Cohort



Fred Hutch's Science Education team teamed up with computational biologists to launch, [Coding for Cancer](#), which focuses on building high school students' computational skills. Computational skills are increasingly important in nearly all fields of biomedical research at the Hutch and beyond. Coding for Cancer connects students with computational biologists, and teaches hands-on skills, such as coding and the computational tools that are used in cancer research.

PARTICIPANTS

The Coding for Cancer pilot program is designed for students who...

- Will enter 11th or 12th grade in the fall.
- Have no coding experience.
- Identify with racial and ethnic groups traditionally underrepresented in health sciences, or as persons with disabilities, or were raised in economically disadvantaged backgrounds.

Students are recruited from throughout Washington state as well from tribal educational institutions and groups in Montana.

EXPERT SCIENTISTS

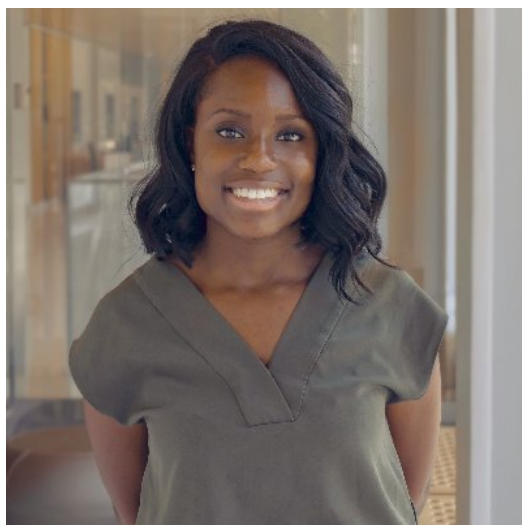
The program is a collaboration among science education staff and scientists who

are active computational biology researchers. Professors in Fred Hutch's Computational Biology program serve as program advisors, while staff and experienced graduate students contribute to developing the curriculum. Program participants work closely with these subject matter experts throughout the program.

Please email Liza Ray (eray@fredhutch.org) to learn more or get involved.

Student Spotlight: Barbara Biney

Flowing Through the Fred Hutch Education Pipeline: from high school intern to MD student



Q&A with Barbara

Hometown: Mountlake Terrace, WA

Education

Emory University

MD program, School of Medicine

University of Pennsylvania

Master of Public Health, Perlman School of Medicine

What did you gain from your SHIP experiences?

Participating in SHIP was fundamental to my professional development. It exposed me to an environment I'd never been in before. I felt like my opportunities were limitless and I could learn from everyone around me, both from their education path and the opportunities in science outside of medicine. I also had a good source of emotional support. It was nice being around students who could relate to my nerdiness – our shared passion for science and education made me feel comfortable and accepted, and that trickled to other things. The Hutch was the first place where I didn't care what I looked like, whether my skin color or hair or other limitations – I just felt accepted as a person. Programs at Fred Hutch are really important because they bring you around people who are just like you – who can relate to your experiences and adversity.

What have been your experiences with race and intersectionality in science and higher education?

Bachelor of Arts in Biology, College of Arts and Sciences

[Summer High School Internship Program](#) (SHIP) 2013, Porter Lab

Fun fact

I can braid hair. I was Division 1 track and field in college!

How did you find out about the programs at Fred Hutch?

I didn't know what research was at all. The only science related career path I was familiar with was medicine. Back in 2012, I was volunteering at Swedish Edmonds and another volunteer said I should do research at a science lab. He mentioned that it would look competitive on my college applications. I had no idea what he was talking about, so I went home and Googled it, and Fred Hutch was the first thing that popped up. At the time I was too young, so a year later, I brought up the Hutch to my AP bio teacher. It turned out that she was already involved with the Fred Hutch's [Science Education Partnership](#). She wrote my letter of recommendation and supported me.

At Penn, there were plenty of students of color, but not necessarily people who could relate to my background or experience as a lower income student. The biggest thing was the mindset that higher income vs lower income people have – a lot of my perseverance came from my background and the struggle that I had to go through. My problem-solving skills were different. I had to be creative – think of different means of transportation, how to talk to people in positions of authority, while others had things handed to them. And those skills that I gained, were applicable to other scenarios. My advisor at Penn told me, after looking at my freshman schedule, that “Black students at Penn don't do well in science classes. You should consider changing your schedule...” That was the first time that I felt like my skin color was limiting me directly. But, I got a 3.69 GPA, and he sent me an apology email and said I exceeded his expectations.

What are your future plans?

Graduating medical school, and I want to start a business, too! I want to work on my hair service business.

Faculty Leadership Incubator (FLI) Series: New Faculty Professional Development

Starting a new job as an Assistant Professor can be challenging. To provide support for new faculty during their first year at Fred Hutch, the [Faculty Leadership Incubator](#) (FLI) Fundamentals series was launched in December 2020. The goal of this Hutch-wide cohort program is to bring new faculty together to help build connections between them and to provide them with resources needed to build successful and

effective teams. This past year, 18 faculty hired in 2019-2020 were invited to participate in this initial offering.

The series includes monthly workshops and discussions led by mid to senior Fred Hutch faculty that offer advice and lessons learned on topics including: successfully navigating building a research team, creating positive and inclusive team culture, skills for effective mentoring, and team development and dynamics. The workshop series is directed by Julie Overbaugh and Elizabeth Boyd, and is organized and facilitated by Dara Lehman in the Office of Education and Training, Karen Peterson in the Office of Scientific Career Development, Wendy Law with the Cancer Consortium, and Kim Wells in Human Resources.

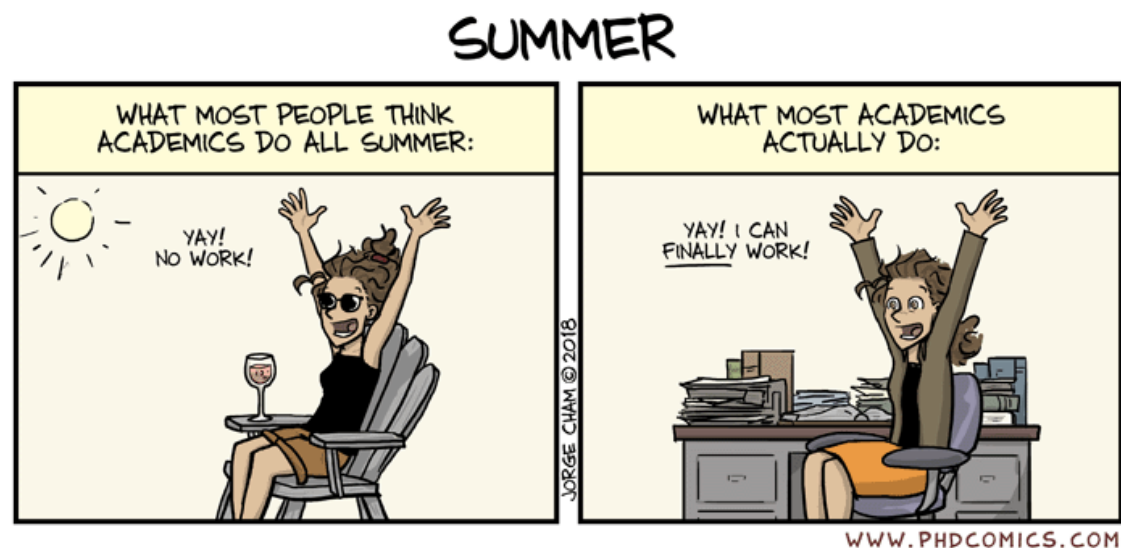
Interested in getting involved in the FLI fundamentals series? Please email Dara Lehman (dlehman@fredhutch.org).

Honoring the 2021 SciEd Mentoring & Outreach Awardees



On July 8th, Dr. Tom Lynch and the program directors personally thanked the 2021 SciEd

Outreach and Mentoring awardees for their exceptional service. Congrats again to Christine Cucinotta, Laura Panattoni, and Brian Hayes for their hard work and dedication!



Events & Programs

Recent and Upcoming Events

Monday, July 26

F Award Mock Study Section

Friday, August 6

11am - 12:30 pm | [SEP Poster Session](#)

Friday, August 20

10am - 4:00pm | [SHIP & Pathways Undergrads final presentations](#)

July 20 to the beginning of 2022

[OSCD Ivory Tower Quest](#)

End of August

Pathways Explorers | [Blog Posts](#)

September

[SPAC](#) Industry Speed-Networking

OET Partner Events:

Thursday, September 2

FH/UW Cancer Consortium | [Introduction to ITHS](#) (The Institute of Translational Health Sciences)

SciEd Program Dates

June 14 - August 13

[Cancer Research Internship for Graduate Students](#)

June 24 - August 20

[Summer High School Internship Program](#) (SHIP)

June 14 - August 13

[Summer Undergraduate Research Program](#) (SURP)

July 12 - August 6

[Science Education Partnership](#) (SEP)

June 23 - August 20

[Pathways Undergraduate Researchers](#)

August 2 - 13; August 16 - 27

[Pathways Explorers](#)

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