

# **OVERALL DESCRIPTION**

Frontiers in Cancer Research aims to increase public understanding of molecular and cellular biology and how these disciplines are used to develop cancer therapies and cures. More specifically, it focuses on immunotherapy, which is fundamentally shifting cancer treatment. The program will also explore the ethical implications of cancer research-related topics and introduce students to career possibilities in research. Our approach leverages the scientific resources of a comprehensive cancer research center, Fred Hutchinson Cancer Research Center. It also draws on the resources of the Science Education Partnership (Fred Hutch's teacher professional development program), our experience in bioethics education, and curricular resources developed with prior NIH funding.

# **PROJECT GOALS**

# **Frontiers Curriculum Development:**

A team of teachers supported by staff, scientists, and bioethicists will develop two NGSS-aligned cancer-focused curriculum. Each unit will incorporate hands-on kit resources and instructional materials while highlighting breakthrough research at Fred Hutch (Y1). Each unit will be piloted and edited (Y2).

# **SEP-Frontiers:**

Twenty teachers annually participate in a newly designed 3-week professional development workshop using the Frontiers curricular resources including a mentored research experience and multiple school-year follow-up sessions. This professional development will equip teachers to teach fundamental biological principles through the lens of cancer research. Additionally, one-day teacher workshops will provide opportunities to widely disseminate resources and build community among our teachers.

# Frontiers at Fred Hutch:

Through an introductory school-year outreach program, our program works to inspire high school students from underrepresented communities to pursue biomedical and clinical research careers.

# **Frontiers in Cancer Research**

Jeanne Ting Chowning MS, Principal Investigator, Beverly Torok-Storb, PhD, Key Personnel, Regina Wu, Program Manager Fred Hutchinson Cancer Research Center

# **TEACHERS IN FRED HUTCH RESEARCH LABS**





<b>Overarching Questions</b>	What is cance
Level	Introductory Bi
Additional Questions	How can prote us fight cancer
Current Cancer Research Topic	Project Violet

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