

OHSU School of Medicine

Cancer Biology Program

The Cancer Biology program constitutes the foundation of basic science research of the OHSU Knight Cancer Institute. The overall goal of the Cancer Biology Program is to investigate the underlying cellular, genetic and molecular mechanisms underlying the development of cancer and in the regulation of both normal and abnormal cell growth. The scientific thrust of the program is in three related areas of investigation: Signal Transduction, Carcinogenesis/Genetic Instability, and Apoptosis.

The program is designed to train students for a career in basic and applied cancer research. Modern cancer research is based on a broad range of technical skills including: Molecular Biology, Cell Biology, Genetics, Biochemistry, and Bioinformatics, which the students will learn through course work and extensive laboratory training. Students in this program will receive training in the application of biotechnology to basic and applied cancer research, and to the dissemination of information to the next generation of scientists and the lay public.

Research

One of the main goals of this program is to bring together researchers from various basic science and clinical departments to foster, not only learning activities for students, but also for interactions between Principle Investigators with cancer interests. This program has primary faculty from four OHSU basic

science departments: Molecular and Medical Genetics, Biochemistry and Molecular Biology, Cell and Developmental Biology, Molecular Microbiology and Immunology; the Department of Biology at Portland State University; and three Research Institutes/Centers: The Vollum Institute, Oregon Stem Cell Center, Center for Research on Environmental Toxicology (CROET). In addition, the

adjunct faculty are from 5 basic science departments Molecular and Medical Genetics, Biochemistry and Molecular Biology, Cell and Developmental Biology, Molecular Microbiology and Immunology, Physiology and Pharmacology; 4 Department of Medicine Divisions; the Portland Shiners' Research Center; and Providence Medical Center.



Want to Know More?

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Cancer Biology Program

Mail Code: L224

Oregon Health & Science University

3181 S.W. Sam Jackson Park Road

Portland OR 97239-3098

Curriculum Overview

During the first year, students will be advised by faculty members, who guide them through courses, including advanced electives and rotations. Curriculum is flexible and courses are largely completed in the first year, permitting students to focus on independent research in a mentor's laboratory as soon

as possible. A total of 4 credit hours of upper level elective courses are required to be eligible for the Program in Cancer Biology Ph.D. degree. Students also participate in the Knight Cancer Biology Seminar Series and Mechanisms of Cancer Journal Club.

Primary Faculty

Eric Barklis, Ph.D.

Mushui Dai, M.D., Ph.D.

Michael Deininger, M.D., Ph.D.

Brian Druker, M.D.

William Fleming, M.D., Ph.D.

Markus Grompe, M.D.

Michael Heinrich, M.D.

Ann Hill, Ph.D., MBBS, FRACP

Maureen Hoatlin, Ph.D.

Molly Kulesz-Martin, Ph.D.

Mike Liskay, Ph.D.

Charles Lopez, M.D., Ph.D.

Bruce Magun, Ph.D.

Amanda McCullough, Ph.D.

Peter Rotwein, M.D.

Rosalie Sears, Ph.D.

Jeffrey Singer, Ph.D.

Stephen Lloyd, Ph.D.

Philip Stork, M.D.

Matt Thayer, Ph.D.

Mitchell Turker, Ph.D., J.D.

Marcel Wehrli, Ph.D.

Melissa Wong, Ph.D.

There are 20 additional Cancer Biology faculty members

