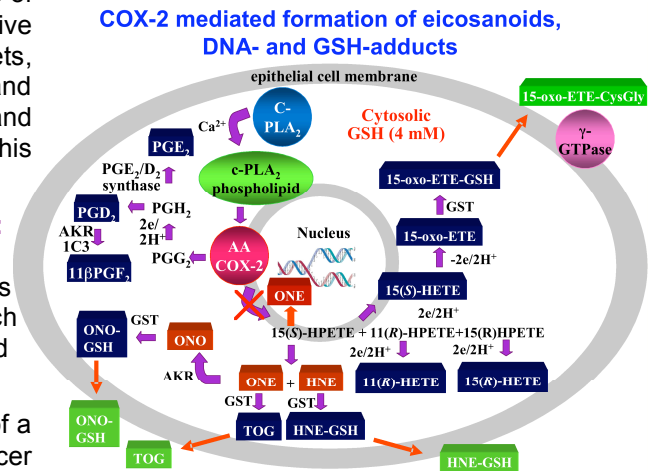


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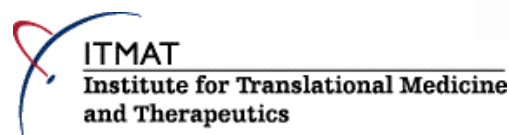
NCI Multidisciplinary Cancer Pharmacology Training Program

- ◆ The NCI-funded multidisciplinary Cancer Education and Career Development Program has a postdoctoral trainee position available. Major advances in the treatment of cancer patients in the next decade will result from multidisciplinary approaches in understanding of how malignant cells work at the molecular level and in designing novel therapeutic agents to disrupt these processes. Therefore, the proposed training program will help fill the current deficit of individuals qualified to develop the next generation of chemotherapeutic agents. The ultimate goal of the program is to provide training in cancer pharmacology that goes from laboratory to bedside and back again.
- ◆ **Program A – Cancer Etiology & Therapeutics:** consists of group of 10 faculty trainers. The program provides innovative training in methodology for identification of new drug targets, chemical synthesis of new small molecules, epidemiological and pharma-cogenetic studies, pharmacokinetics and modeling, and pharma-cological testing of new agents that emerge from this program.
- ◆ **Program B – Cell & Molecular Cancer Pharmacology:** consists of group of 10 faculty trainers. It will provide training in growth control and control of proliferation using modern techniques of cell and molecular cancer pharmacology. The potential research for the trainees spans the range of oncogenes, through lipid-based signal transduction pathways to nuclear receptors.
- ◆ **Program C - Clinical Cancer Pharmacology:** consists of a group of 9 faculty mentors with primary interests in clinical cancer pharmacology. Trainees can choose to have a primary focus on a diversity of clinical topics including: Phase I trials, new methodologies of clinical cancer pharmacology, novel therapeutic strategies for treating different cancers including GI cancer, leukemia, and neuroblastoma. The research training will focus on translational therapeutics.
- ◆ Faculty from two different programs mentor the research of each pre doctoral and postdoctoral trainee.
- ◆ **Qualifications:** Applicants must be green-card holders or US citizens In addition, the postdoctoral fellows should hold a PhD in Pharmacology, Biochemistry, Chemistry or allied science.



CURRENT MENTORS BY PROGRAM:

- ◆ **Program A – Cancer Etiology & Therapeutics**
 - Ian Blair, PhD, Pharmacology
 - Jeffrey Barrett, PhD, FCP Pediatrics
 - Eric J. Brown, PhD Cancer Biology
 - Christopher Chen, PhD, MD Bioengineering
 - Jim Delikatny, PhD Radiology
 - Jeffrey Field, PhD Pharmacology
 - Caryn Lerman, PhD Psychiatry
 - Tim Rebbeck, PhD Biostatistics and Epidemiology
 - Wenchao Song, PhD Pharmacology
 - Steven Whitehead D.Phil. Pharmacology
- ◆ **Program B – Cell & Molecular Cancer Pharm:**
 - Richard Assoian, PhD Pharmacology
 - Dave Boettiger, PhD Microbiology
 - J. Alan Diehl, PhD Cancer Biology
 - James Eberwine, PhD Pharmacology
 - Marcelo Kazanietz, PhD Pharmacology
 - William M.F. Lee, PhD, MD Medicine
 - Dave Manning, PhD Pharmacology
 - Judy Meinkoth, PhD Pharmacology
 - Trevor Penning, PhD Pharmacology, OB/GYN, Biochemistry & Biophysics
 - M. Celeste Simon, PhD Cell & Developmental Biology
- ◆ **Program C - Clinical Cancer Pharmacology**
 - Peter Adamson, MD Clinical Pharmacology & Therapeutics
 - Garrett Brodeur, MD Pediatrics
 - Wafik El-Deiry, MD, PhD Medicine, Genetics & Pharmacology
 - Carolyn Felix, MD Pediatrics
 - Garret FitzGerald, MD Medicine & Pharmacology
 - Peter Kline, MD, PhD Medicine, Cell & Developmental Biology
 - Emma Meagher, MD Medicine, Pharmacology
 - Vladimir Muzykantov, MD, PhD Medicine, Pharmacology
 - Anil Rustgi, MD Medicine, Genetics & Chief of Gastroenterology



Please submit your application on line <http://www.med.upenn.edu/ccp/training.shtml> if you are interested.

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**APPLICANTS WILL BE CONSIDERED BY
THE PROGRAM'S STEERING
COMMITTEE.**