Pharmaceutical Sciences and Pharmacogenomics (PSPG)

The goal of the Pharmaceutical Sciences and Pharmacogenomics program (PSPG) is to educate students to address the major questions in the pharmaceutical sciences, teach students the basic sciences needed to address these questions, and create an environment where the students can develop into independent and creative scientific problem solvers. This multidisciplinary graduate program has a dual focus on:

Pharmaceutical sciences, including molecular and systems pharmacology, drug development and delivery, therapeutic bioengineering, and pharmacokinetics/pharmacodynamics, and Pharmacogenomics, the application of genetics and genomics to drug action and disposition.

Large multidisciplinary research projects focusing on membrane transporter pharmacogenetics and quantitative systems pharmacology provide students with an opportunity for cross-disciplinary training in pharmacology, human genetics, and computational biology. The PSPG faculty developed the foundation for current principles regarding the kinetics of drug action and variability in drug response, and it includes members of the Institute of Medicine and the National Academy of Sciences.

faculty
More than 50 faculty members are associated with the PSPG program across more than 20 departments at UCSF.

The PSPG program is a member of the Quantitative Biosciences Consortium [1] (QBC) at UCSF.

sub-disciplines
pharmacogenomics and functional genomics
quantitative and systems pharmacology and computational genomics
computational genomics
molecular pharmacology
drug development sciences
therapeutic bioengineering

career outcomes
Many PSPG grads will do postdoctoral work upon graduation. About half of recent PSPG graduates are expected to pursue careers in industry. Many others will go into academia, with smaller numbers going into government or other science-related fields. See detailed career outcomes data to date [2].

The PSPG program office is located at the Mission Bay campus. Visit the program website [3]
for more information.

The PSPG program is offered by the UCSF Graduate Division administered by the UCSF School of Pharmacy delivered by faculty members in the UCSF School Pharmacy the UCSF School of Medicine

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