



Integrated Systems Genetics Conference

March 11-13, 2008

Newport Beach Radisson Hotel

Co-chairs: [Dr. Hoda Anton-Culver](#)
[Dr. Dinah Singer](#)
[Dr. Cheryl Marks](#)

Director, UCI GERI
Director, DCB
Assoc. Director, DCB

Organized and hosted by UCI's GERI, this conference attracted a number of geneticists and epidemiologists from across the nation, including NCI's **Division of Cancer Biology (DCB)**; all representing varied research model systems with which they conduct research. The conference's purpose was to bring together these scientists and clinicians with diverse approaches to develop a type of roadmap in terms of how to apply comparative systems genetics in a way that would promote discovery in human translational science. There was a special emphasis on the abundant collaborative opportunities to solve complex problems that have the potential to unite the talents of these diverse researchers in systems biology, clinical science, molecular and genetic epidemiology, risk modeling, mathematical and computational modeling, and human and model organism genetics.

This meeting was the fourth in a series of similar meetings that started in 2000. The initial goal for the series was to collaboratively explore the benefits of merging the fields of human and model organism genetics. The result of our third meeting/workshop, held December 2005, was that a number of global proposals for resources were developed in order to sustain our integrated approaches.

The ambitious objectives for this meeting—projecting how comparative systems genetics can enrich our understanding of human cancer—build upon the outcomes of our previous meetings. This workshop will employ the cancer continuum as an organizing principle for discussions to define, for each step of the continuum, the needs and opportunities that integrated systems genetics may foster in modeling of risk, in specific interventions and in study outcomes.