



# Big Data Training for Cancer Research

## *Special Lecture Series*

### *Integrating Data Types to Understand the Impact of Early-Life Experiences*

*Dr. Hal S Stern*

**July 22, 2024, 1:00 – 2:15 PM (PDT)**

**Sue Gross Auditorium, Susan & Henry Samueli College of Health Sciences**



**Speaker Bio:** Hal Stern is Provost and Executive Vice Chancellor at the University of California, Irvine (UCI), where he also serves as Distinguished Professor in the Department of Statistics. Stern previously served as founding chair of the UCI Department of Statistics, as Dean of the Donald Bren School of Information and Computer Sciences, and as Vice Provost for Academic Planning. He is known for his research on Bayesian statistical methods and for collaborative projects in the life sciences and social sciences. Current areas of interest include applications of statistical methods in psychiatry and human behavior and forensic science. He is a Fellow of the American Association for the Advancement of Science (AAAS), American Statistical Association (ASA) and the Institute for Mathematical Statistics (IMS).

**Abstract:** Adverse early-life experiences can have an enduring impact on cognitive and emotional health. A multi-disciplinary research group funded by the National Institute of Mental Health has been using two human cohorts and animal studies to understand the nature of the impacts and the mechanisms that drive the impacts. The research requires combining information from a range of data types including cognitive and behavioral measures, video of mother-child interactions, brain imaging, and genetics. The lecture reviews the approaches that we have been taking to integrate these diverse data types.