



# 2016 UCSF Breast Oncology Program Scientific Retreat

JCCSF, 3200 California St., San Francisco, 94118

## Thursday, February 4

12:00-12:30 *Atrium*

### **Registration and Boxed Lunch**

12:30-4:30 *Kanbar Hall*

12:30-12:40 Welcome and Introduction to Agenda and Breast Oncology Program  
Laura van 't Veer, PhD, UCSF

### **Precision Medicine: Reading and Editing your Genome (Moderator: Elad Ziv, MD, UCSF)**

12:40-1:00 Testing Every Woman for Germline Breast Cancer Susceptibility: Athena Wisdom  
Laura van 't Veer, PhD, UCSF

1:00-1:10 Q&A

1:10-1:30 CRISPR: The Frontier of the Genome Engineering Revolution  
Megan van Overbeek, Senior Scientist, Caribou Biosciences, Berkeley

1:30-1:40 Q&A

1:40-1:55 The Ethics of Gene Editing  
Barbara Koenig, PhD, UCSF

1:55-2:05 Q&A

2:05-2:35 Twenty Years UCSF Cancer Risk Program: A Tribute  
Beth Crawford, MS, UCSF and Laura Esserman, MD, MBA, UCSF

2:35-3:00 *Break*

### **Breast Epithelium and Malignant Plasticity (Moderator: Mark LaBarge, PhD, LBNL)**

3:00-3:35 Closing the Loop: How a Linear DNA Sequence Becomes a Three Dimensional Tissue and  
How it May Become Malignant and Metastatic  
Mina Bissell, PhD, Lawrence Berkeley National Laboratory

3:35-3:45 Q&A

3:45-4:05 Pluripotency in Stromal-Epithelial Interactions  
Thea Tlsty, PhD, UCSF

4:05-4:15 Q&A

4:15-4:30 Science Advocacy Exchange as a Cancer Center Priority: From Rhetoric to Reality  
Susan Samson, Susie Brain, BSAC Research Advocates; Mark LaBarge, PhD, Lawrence  
Berkeley National Laboratory; Andrei Goga, MD, PhD and Efrat Harel, PhD, UCSF

4:30-4:40 Q&A

4:40-6:30 *Atrium*

### **Poster Session**

*(Light refreshments and beverages will be served.)*



# 2016 UCSF Breast Oncology Program Scientific Retreat

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## Friday, February 5

8:30-9:00 Atrium

**Registration & Continental Breakfast**

9:00-4:10 Kanbar Hall

### Targeted Therapies and Toxicities (Moderator: Hope Rugo, MD, UCSF)

9:00-9:20 Neuropathy: Acute and Long-Term Effects  
Michelle Melisko, MD, UCSF

9:20-9:30 Q&A

9:30-9:50 Genotypes for Adverse Treatment Effects  
Deanna Kroetz, PhD, UCSF

9:50-10:00 Q&A

10:00-10:20 One Source: Point of Care Tools to Integrate Care and Research and Accelerate Learning  
Sue Dubman, Senior Director IT Innovation I-SPY & Athena, introduction by Laura Esserman

10:20-10:30 Q&A

10:30-10:50 Break

### Poster Discussion Session (Moderator: Mary Helen Barcellos-Hoff, PhD)

10:50-11:00 Presentation of Awards  
Carol Simmons, MS, BSAC Research Advocate, Hope Rugo, MD, and Laura van 't Veer, PhD

11:00-11:10 **Detection and Biomarkers Poster:** Co-Expression Modules Identified From Published Immune Signatures Reveals Five Distinct Immune Subtypes in Breast Cancer; Dominic Amara, BA, UCSF

11:10-11:20 **Detection and Biomarkers Poster Runner-up:** Single-Cell Analysis Characterizes Cellular Heterogeneity in Mammary Cancer Development; Elizabeth Willey, BS, UCSF

11:20-11:30 **Therapeutics and Clinical Trials Poster:** Inhibition of fatty acid oxidation as a therapy for MYC-overexpressing triple-negative breast cancer; Roman Camarda, BSc, UCSF

11:30-11:40 **Discussant: Mark Moasser, MD, UCSF**

11:40-11:50 *General Discussion and Audience Questions*

11:50-12:00 **Epidemiology and Population Science Poster:** Longitudinal analysis of breast cancer recurrence and mortality among U.S. Latina women with breast cancer in the Pathways Study; Natalie Engmann, MSc, UCSF

12:00-12:10 **Physical Sciences Poster:** Breaking the tension: investigating a link between tissue mechanics and tumor immunity in breast cancer; Ori Maller, PhD, UCSF

12:10-12:20 **Molecular Biology Poster:** Unmasking latent heterogeneity in transformed epithelial cells through single cell isolation drives epithelial-mesenchymal transition and creates phenotypic diversity; Chithra Krishnamurthy, PhD, UCSF

12:20-12:30 **Discussant: Elad Ziv, MD, UCSF**

12:30-12:40 *General Discussion and Audience Questions*

12:40-1:30 Lunch

**(Continued on reverse side.)**

*This retreat is supported in part by Nektar Therapeutics, Puma Biotechnology, Color Genomics, Inc., Celgene Corporation, and the UCSF Helen Diller Family Comprehensive Cancer Center Support Grant (P30 CA 082103).*



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## **Friday, February 5**

*(Continued from reverse side.)*

### **Effectors of Tumor Growth and Response (Moderator: Andrei Goga, MD, PhD, UCSF)**

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| 1:30-1:45        | An Advocate's Prescription for Cancer Survivorship Care<br>Diane Heditsian, BSAC Research Advocate, introduction by Hope Rugo, MD   |
| 1:45-1:55        | Q&A   |
| 1:55-2:20        | Cell-free DNA: Central Players in Monitoring Systemic and Local Responses to Tumor Growth<br>Jimmy Lin, MD, PhD, MHS, Chief Scientific Officer-Oncology, Natera, San Carlos |
| 2:20-2:30        | Q&A   |
| 2:30-2:55        | Immunity and Cancer Microenvironment<br>Lawrence Fong, MD, PhD, UCSF  |
| 2:55-3:05        | Q&A   |
| 3:05-3:25        | Utilizing Tumor Biology to Monitor Response by PET<br>Michael Evans, PhD, UCSF  |
| 3:25-3:35        | Q&A   |
| 3:35-4:05        | Novel Dual Targeting and the Evolution of the I-SPY 2 TRIAL Program<br>Laura Esserman, MD, MBA, UCSF  |
| 4:05-4:15        | Q&A   |
| <u>4:15-4:25</u> | <u>Closing Remarks and Adjourn</u><br>Laura van 't Veer, PhD, UCSF  |