

Modeling Cell Heterogeneity: From Single-Cell Variations to Mixed Cells Populations

PSB 2013 Workshop

Thursday, January 3, 2013

Salon 2&3

- 1:00 – 1:05 Introduction
- 1:05 – 1:40 *Invited speaker*
Sylvia Plevritis, Stanford School of Medicine
“Dissecting the Phenotypic Heterogeneity of Cancer”
- 1:40 – 2:35 Contributed talks (15 minutes each)
 - “From molecules to cells to organisms: understanding health and disease with multidimensional single-cell methods.” Julian Candia, Jayanth Banavar and Wolfgang Losert
 - “Automated Functional Profiling of Progenitor Cell Populations using High-Resolution Single Cell Gene Expression Data.” Michael Januszyk, Jason P. Glotzbach, Michael Sorkin, Atul J. Butte and Geoffrey C. Gurtner
 - “Estimating Tumor Clonal Populations from Copy Number Data.” Layla Oesper, Ahmad Mahmoody and Ben Raphael
- 2:35 – 3:10 *Invited speaker*
Dana Pe’er, Columbia University
“Mapping tumor heterogeneity using forty markers at single cell resolution”
- 3:10 – 3:45 Contributed talks (15 minutes each)
 - “The role of positive and negative feedback loops of p53 pathway.” Kyoungmin Roh and Stephen Proulx
 - “Teasing apart sources of stochastic variations in eukaryotic gene expression.” Damian Wojtowicz, Daniela Ganelin, Raheleh Salari, Jie Zheng, David Levens, Yitzhak Pilpel and Teresa Przytycka
- 3:45 – 4:00 Discussion