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)
  o “From molecules to cells to organisms: understanding health and disease with multidimensional single-cell methods.” Julian Candia, Jayanth Banavar and Wolfgang Losert
  o “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)
  o “The role of positive and negative feedback loops of p53 pathway.” Kyoungmin Roh and Stephen Proulx
  o “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