

Translating Cancer Data and Models to Clinical Practice

Monday February 10, 2014

- 8:00–9:00 *Check-In/Light Breakfast (Hosted by IPAM)*
- 9:00–9:50 **Robert Gatenby** (Moffitt Cancer Center & Research Institute)
Evolutionary games in cancer therapy
- 10:00–10:30 *Break*
- 10:30–11:20 **Beatrice Knudsen** (Cedars-Sinai Medical Center)
Digital Image Analysis Meets Genomics: a new era in molecular pathology
- 11:30–12:20 **Linda Liau** (University of California, Los Angeles (UCLA))
Translating Brain Cancer Immunotherapy into Clinical Practice
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:50 **Edwin Posadas** (Cedars-Sinai Medical Center)
Molecular analysis of circulating tumor cells in prostate cancer: moving toward a liquid biopsy and personalized medicine
- 3:00–3:30 *Break*
- 3:30–4:20 **Doron Levy** (University of Maryland)
The Dynamics of Drug Resistance in Cancer
- 4:30–6:00 *Poster Session & Reception (Hosted by IPAM)*

Tuesday February 11, 2014

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Joseph Lehar** (Novartis Institutes for BioMedical Research)
Using targeted drugs and combinations to selectively overcome robust cancer signaling networks
- 10:00–10:30 *Break*

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- 10:30–11:20 **Shridar Ganesan** (Rutgers University)
Cell cycle dynamics, DNA repair and chemoresistance: how does adjuvant therapy work to reduce cancer recurrence?
- 11:30–12:20 **Monica Nicolau** (Stanford University Medical School)
Unraveling Cancer Diversity through the Geometry of its Data
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:50 **Eytan Domany** (Weizmann Institute of Science)
Pathway – Based Personalized Analysis of Cancer
- 3:00–3:30 *Break*
- 3:30–4:20 **Trevor Graham** (Barts Cancer Institute)
Measurements of clonal evolution in cancer as universal biomarkers of prognosis

Wednesday February 12, 2014

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Darryl K Shibata** (University of Southern California (USC))
Reconstructing Human Cancer Progression From Private and Public Mutations
- 10:00–10:30 *Break*
- 10:30–11:20 **Tibor Antal** (University of Edinburgh)
Modeling cancer as a stochastic process
- 11:30–12:20 **Hans Sieburg** (Sanford-Burnham Medical Research Institute)
Diversity of Blood Stem Cells: Now what?
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:50 **Eshel Ben-Jacob** (Tel Aviv University)
Exosomes and the Cancer-Immunity Cyberwar
- 3:00–3:30 *Break*
- 3:30–4:20 **Ben Berman** (University of Southern California (USC))
A single-molecule epistate approach for understanding tumor epigenomes

Thursday February 13, 2014

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Sui Huang** (Institute for Systems Biology)
Cancer Attractors And Phenotype Plasticity In Non-Darwinian Somatic Evolution Of Drug Resistance
- 10:00–10:30 *Break*
- 10:30–11:20 **Peter Jones** (USC Medical School)
- 11:30–12:20 **Stefanie Jeffrey** (Stanford University Medical School)
Intratumoral Heterogeneity and Single Cell Analysis of Circulating Tumor Cells - Increasing the Complexity for Mathematical Modeling
- 12:30–2:00 *Lunch (on your own)*
- 2:00–2:50 **Chang Chan** (Rutgers University)
Genetic Anticipation or Genetic Regression
- 3:00–3:30 *Break*
- 3:30–4:20 **Gabriela Alexe** (Harvard Medical School)
Functional synergies in profiles of T cell responses to chronic infections and BET bromodomain inhibition across pediatric malignancies

Friday February 14, 2014

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Kimryn Rathmell** (University of North Carolina)
Datasets, Doctors, and Disease: Bridging the gap from genomics analysis to clinical change
- 10:00–10:30 *Break*
- 10:30–11:20 **James Glazier** (Indiana University)
Applying Multi-Scale, Multi-Cell Modeling of Pathological Neovascularization in the Retina and Solid Tumors to Suggest Novel Treatment Strategies
- 11:30–12:20 *Round Table Discussion*
- 12:30 *Conclusion*

