

RECOMB Computational Cancer Biology 2010

PROGRAM

THURSDAY 24.JUNE.2010

11:00 Conference desk opens

12:00 Gathering and registration

13:00 Welcome remarks – Conference Chairs

13:10 Keynote 1: **Joe W. Gray**, Lawrence Berkeley National Laboratory:

A systems biology approach to HER2 signaling

13:50 Session 1:

13:50 Peter Van Loo: *Allele-specific copy number analysis of breast carcinomas*

14:10 Natasa Przulj: *Uncovering melanogenesis regulatory pathways from protein-protein interaction networks: the computational method and software tool*

14:30 Break

15:00 Keynote 2: **Rachel Karchin**, Johns Hopkins University:

High throughput annotation of somatic mutations in cancer: computational challenges

15:40 Session 2:

15:40 Chris Greenman: *Estimating rearrangement evolution in cancer with massively parallel paired end sequencing*

16:00 Charlotte KY Ng: *Copy number and high-throughput sequencing analysis of heterogeneity and tumour evolution in ovarian cancer*

16:20 Yinyin Yuan: *Inferring deregulation networks of copy number driven expression in cancer sub-types*

16:40 Poster session with tapas

FRIDAY 25.JUNE.2010

08:30 Conference desk opens

09:00 Keynote 3: **Gordon B. Mills**, The University of Texas M. D. Anderson Cancer Center
Systems approach to personalized medicine

09:40 Session 3:

09:40 Gurkan Bebek: *PETALS: Proteomic Evaluation and Topological Analysis of a mutated Locus' Signaling*

10:05 Anaïs Baudot *Extending pathways and processes using molecular interaction networks to analyse cancer genome data*

10:30 Break

11:00 Keynote 4: **David Botstein**, Princeton University

Genomics, Computation, and the Nature of Biological Understanding

11:40 Session 4:

11:40 Anna Ritz: *Detection of recurrent rearrangement breakpoints from array copy number data*

12:05 Hiroko Solvang: *Linear and non-linear dependencies between copy number aberrations and mRNA expression reveal distinct molecular pathways in breast cancer*

12:30 Lunch

14:00 Keynote 5: **Yosef Yarden**, The Weizmann Institute of Science

Fine tuning of oncogenic signaling: coordinated networks of mRNAs and microRNAs

14:40 Session 5:

14:40 Israel Steinfeld: *Understanding miRNA roles in breast cancer through enrichment networks*

15:00 Ali Tofigh: *Stromal-epithelial interactions in breast cancer using patient-matched gene expression data*

15:20 Break

15:40 Keynote 6: **Alfonso Valencia**, Spanish National Cancer Research Centre

Protein networks in the interpretation of cancer genome data

16:20 Concluding remarks and meeting closure