

Sequence Analysis Toward System Biology

Monday January 9, 2006

- 8:00–8:50 *Check-In/Light Breakfast (Hosted by IPAM)*
- 8:50–9:00 *Welcome and Opening Remarks*
- 9:00–10:00 **Jun Liu** (Harvard University)
Sequence information, histone acetylation, and gene expression
- 10:00–10:30 *Break*
- 10:30–11:30 **Sam Karlin** (Stanford University)
GENOME COMPARISONS AND ANALYSIS
- 11:30–1:30 *Lunch (on your own)*
- 1:30–2:30 **Amir Dembo** (Stanford University)
Sequence and Structure Matching: Applications of Probability Theory
- 2:30–3:00 *Break*
- 3:00–4:00 **Wing Wong** (Stanford University)
Studies in genomic regulatory systems
- 4:00–5:00 **Kenneth Lange** (UCLA)
Dictionary Models for Motif Finding and Haplotyping
- 5:00–7:00 *Wine/Cheese Reception (Hosted by IPAM)*

Tuesday January 10, 2006

- 8:30–9:00 *Continental Breakfast*
- 9:00–10:00 **Mayetri Gupta** (University of North Carolina)
From genomic sequence to gene regulation
- 10:00–10:30 *Break*
- 10:30–11:30 **Simon Tavaré** (University of Southern California)
Genome-wide associations of gene expression variation in humans
- 11:30–1:30 *Lunch (on your own)*
- 1:30–2:30 **Terry Speed** (UC Berkeley)
Bioinformatic analysis of proteins targeted to the host erythrocyte in human malaria parasites
- 2:30–3:00 *Break*

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- 3:00–4:00 **Frederick Roth** (Harvard Medical School)
Genome-Scale Analysis of Alternative Splicing Regulation
- 4:00–5:00 **Sunduz Keles** (University of Wisconsin-Madison)
Mixture modeling for genome-wide localization of transcription factors

Wednesday January 11, 2006

- 8:30–9:00 *Continental Breakfast*
- 9:00–10:00 **Haiyan Huang** (UC Berkeley)
Using comparative genomics for analyzing Human non-coding sequences
- 10:00–10:30 *Break*
- 10:30–11:30 **David Haussler** (UC Santa Cruz)
Ultraconserved elements, living fossil transposons, distal enhancers, and mysterious RNA genes: reconstructing the detailed evolutionary history of the human genome.
- 11:30–1:30 *Lunch (on your own)*
- 1:30–2:30 **Andrew Neuwald** (Cold Spring Harbor Laboratory)
Predicting biological mechanisms through Bayesian inference of evolutionary constraints
- 2:30–3:00 *Set Up for Poster Session*
- 3:00–4:00 **Shamil Sunyaev** (Harvard Medical School)
Evolutionary analysis of genome variation
- 4:00–5:00 **Carlos Bustamante** (Cornell University)
Population Genetic Inference from SNP Data
- 5:00–7:00 *Dinner/ Poster Session*

Thursday January 12, 2006

- 8:30–9:00 *Continental Breakfast*
- 9:00–10:00 **Xiaole Liu** (Dana-Farber Cancer Institute)
MATCH: Model-based Analysis of Tiling-arrays for ChIP-chip
- 10:00–10:30 *Break*

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- 10:30–11:30 **Harmen Bussemaker** (Columbia University)
CONDITION-SPECIFIC REGULATION OF mRNA STABILITY IN YEAST
- 11:30–1:30 *Lunch (on your own)*
- 1:30–2:30 **Michael Elowitz** (California Institute of Technology)
Gene Circuits at the Single Cell Level
- 2:30–3:00 *Break*
- 3:00–4:00 **Hao Li** (University of California, San Francisco)
Regulatory Complexity of Yeast Transcription Networks
- 4:00–5:00 **Terence Hwa** (University of California, San Diego)
Quantitative Study of Gene Regulation

Friday January 13, 2006

- 8:30–9:00 *Continental Breakfast*
- 9:00–10:00 **Nancy Zhang** (UC Berkeley)
modified BIC towards change-point problems
- 10:00–10:30 *Break*
- 10:30–11:30 **Michael Waterman** (University of Southern California)
Whole Genome Optical Mapping
- 11:30–1:30 *Lunch (on your own)*
- 1:30–2:30 **Trey G. Ideker** (University of California at San Diego)
Protein Network Comparative Genomics
- 2:30–3:00 *Break*
- 3:00–4:00 **Ker-chau Li** (UCLA)
Liquid association and eQTL
- 4:00–12:00 *Evening at the Getty (Non-IPAM Event)*

