# 4th Annual RECOMB Satellite on
# REGULATORY GENOMICS

### Thu-Sat  Oct 11-13, 2007



## http://compbio.mit.edu/recombsat

The 4th Annual RECOMB Satellite on Regulatory Genomics will be held in the Boston Area, at MIT, jointly organized by the Broad Institute of MIT and Harvard, and the MIT Computer Science and Artificial Intelligence Lab (CSAIL).

The goal of the meeting is to bring together computational and experimental scientists in the area of regulatory genomics, to discuss current research directions, latest findings, and establish new collaborations towards a systems-level understanding of gene regulation.

Organizing committee: Martha Bulyk, Eleazar Eskin, Manolis Kellis, Eran Segal          Contact:  recombsat@mit.edu

## Keynote Speakers

**David Bartel**
  - Whitehead Institute

**Ewan Birney**
  - Sanger / EBI

**George Church**
  - MIT / Harvard

**Jim Collins**
  - Boston University

**Michael Eisen**
  - LBNL / Berkeley

**Nir Friedman**
  - Hebrew University

**Trey Ideker**
  - UC San Diego

**Michael Levine**
  - UC Berkeley

**Erin O'Shea**
  - Harvard University

### Friday, October 12, 2007

| Time | Session | Event |
|------|---------|-------|
| 8:00am | Morning Session: Broad | Breakfast |
| 9:00am | | Keynote: George Church - Personal Genome Project |
| 9:30am | | Ernst/Bar-Joseph: Dynamic regulatory maps |
| 9:45am | | Fan/Liu: Bayesian Cell Cycle |
| 10:00am | | Bais/Vingron: Nucleosome Depletion & TFBS |
| 10:15am | | Coffee / Snacks / Fruit Break |
| 10:45am | | Palin/Ukkonen: KA stats for CRMs |
| 11:00am | | Ward/Bussemaker: Alignment free TFBS prediction |
| 11:15am | | Ray/Xing: Multi-resolution phylo shadowing |
| 11:30am | | Keynote: Ewan Birney - Human ENCODE project |
| 12:00pm | | Lunch Break / Networking Opportunities |
| 1:00pm | | Stark/Kellis: Motifs and targets in 12 Flies |
| 1:15pm | | Jaeger/Bulyk: CRM target identification |
| 1:30pm | | Yeger-Lote/Fraenkel: Perturbations expr. binding |
| 1:45pm | | Keynote: Erin O'Shea - Transcriptional Networks |
| 2:15pm-4:00pm | | Poster Session II |
| 4:00pm | Evening Session: Broad | Keynote: Nir Friedman - Histone turnover dynamics |
| 4:30pm | | Sriswasdi/Ge: Interactome network motifs |
| 4:45pm | | Zhang/Zhang: Splicing motif targets |
| 5:00pm | | Xiao/Burge: Coevolution splicing networks |
| 5:15pm-6:15pm | | Sunset Break |
| 6:15pm | | Kumar/Young: Polycomb switch differentiation |
| 6:30pm | | Thurman/Stam: DNase chromatin domains map |
| 6:45pm | | Xi/Weng: DNase tissue-specific structures |
| 7:00pm | | Keynote: Mike Levine - Drosophila DV Patterning |
| 7:30pm-9:30pm | | Conference Reception |

### Saturday, October 13, 2007

| Time | Session | Event |
|------|---------|-------|
| 8:00am | Morning Session: Broad | Breakfast |
| 9:00am | | Keynote: David Bartel - miRNAs |
| 9:30am | | Ebert/Lauffenberger: miRNA sponge inhibitors |
| 9:45am | | Yousef/Benos: miRNA upstream regulators |
| 10:00am | | Kheradpour/Kellis: miRNA characterization |
| 10:15am | | Coffee / Snacks / Fruit Break |
| 10:45am | | Zheng/Burge/Sharp: Novel short RNAs |
| 11:00am | | Kapranov/Gingeras: Promoter assoc. RNAs |
| 11:15am | | O'Neil: Ultra-conserved centromere virus RNA |
| 11:30am | | Bernick/Lowe: RNA-mediated silencing Archaea |
| 11:45am | | Lunch Break / Networking Opportunities |
| 12:45pm | | Keynote: Trey Ideker - Protein Network Comparison |
| 1:15pm | | Mogno/Gardner: Temporal logic Ecoli sugar reg. |
| 1:30pm | | Lim/Califano: Druggable apoptosis regulators |
| 1:45pm | | Keynote: James Collins - Biology by Design |
| 2:15pm | | Closing remarks + adjourn |

### Thursday, October 11, 2007

| Time | Session | Event |
|------|---------|-------|
| 5:00pm | Evening Session: Broad | Welcome/Registration/PosterSetUp (Broad) |
| 5:30pm | | Keynote: Mike Eisen - Drosophila TFs function and evolution |
| 6:00pm | | Reijman/Shamir: Evolution of TF combinations |
| 6:15pm | | Zhao/Stormo: New models of TF specificity |
| 6:30pm | | Berger/Bulyk: Motif finding using PBMs |
| 7:00pm-9:00pm | | Poster Session I |

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