

MONDAY DECEMBER 3rd

Breakfast		8:15
Stolovitzky/Califano	Welcome remarks	8:45

Invited Talks: Reverse Engineering Transcription Networks and Applications

Andrea Califano	Using "the network" to dissect human malignancies	9:00
Ilya Shmulevich	Modeling and Inference of Transcriptional Regulatory Networks	9:45
Coffee Break		10:30

Accepted Submissions

Kathleen Marchal	Condition-dependent combinatorial regulation in <i>Escherichia coli</i>	10:45
Fabio Parisi	Network inference by combining biologically motivated regulatory constraints with penalized regression	11:15
Daniel Marbach	Replaying the Evolutionary Tape: Biomimetic Reverse Engineering of Gene Networks	11:45
Lunch		12:15

Keynote Presentation

Mike Snyder	Organization and Evolution of Regulatory Networks	13:15
Coffee Break		14:15

Critical Assessments of High Throughput Predictions

Invited Talk: Fritz Roth	A critical assessment of <i>M. musculus</i> gene function prediction using integrated genomic evidence	14:30
Gustavo Stolovitzky	Introduction to the DREAM Challenges 1 and 2	15:15
Best Predictor Presentation	DREAM Challenge #1: The BCL6 transcriptional net	15:30
Best Predictor Presentation	DREAM Challenge #2: The prot-prot interaction subnet challenge	15:45
Coffee Break		16:00

Accepted Submission

Diego Di Bernardo	Genome-wide identification of p63 direct target genes in primary cells by a novel rev engineering approach	16:15
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Invited Talks: Reverse Engineering of Post-transcriptional Networks

Chris Sander	Multiple Perturbation Approach to Cell Biology	16:45
Peter Sorger	Snap-action and failure modes of a switch controlling extrinsic cell death	17:30
Coffee Break		18:15

Poster Session + Reception

Adjourn		20:00
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TUESDAY DECEMBER 4th

Breakfast		8:15
Stolovitzky	Welcome remarks	8:45

Invited Talks: Reverse Engineering of Transcriptional Networks

Ioannis Xenarios	A qualitative boolean approach : From computer models to experiments and back	9:00
Tim Gardner	Genome-scale mapping of transcription networks: Applications to bioenergy and infectious disease	9:45
Coffee Break		10:30

Accepted Submissions

Barbara Di Camillo	A Gene Network Simulator to Assess Reverse Engineering Algorithms	10:45
Adam Margolin	ChIP-chip significance analysis reveals large-scale binding and regulation by human trans factor oncogenes	11:15
Dimitris Anastassiou	Inference of regulatory gene interactions from expression data using three-way mutual information	11:45
Lunch		12:15

Keynote Presentation

Ron Shamir	Models, modules and modes in biological networks	13:15
Coffee Break		14:15

Critical Assessments of High Throughput Predictions 2

Gustavo Stolovitzky	Introduction to the DREAM Challenges 3,4 and 5	14:30
Best Predictor Presentation	DREAM Challenge #3: The Five Gene net Challenge	14:45
Best Predictor Presentation	DREAM Challenge #4: The In-silico net Challenge	15:00
Best Predictor Presentation	DREAM Challenge #5: The genome-scale Challenge	15:15
Coffee Break		15:30

Accepted Submission

Rune Linding	Casting a Net for Kinases: Systematic Discovery of In Vivo Phosphorylation Networks	15:45
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Invited Talks: Experimental Methods and Metabolic Networks

Ravi Iyengar	Spatial Specification of Cell Signaling Networks	16:15
Denis Vitkup	Reconstruction of cellular metabolic networks: getting closer to the complete picture.	17:00
Coffee Break		17:45

Wrap up

Gustavo Stolovitzky	Closing Remarks: DREAM3? Database? Etc.	18:00
Conference Ends		18:30