5/8/14	Edward Trifonov Genome Diversity Center, Institute of Evolution, University of Haifa, Israel	Nucleosomes rediscovered. The strongest ones reside in centromeres. Host: Maxim Frank-Kamenetskii
5/1/14	Daniel Segre, PhD Associate Professor Bioinformatics Program, Department of Biology, Department of Biomedical Engineering and the Center for Synthetic Biology Boston University	Ecosystems Biology of Microbial Metabolism
4/24/14	Michael A. Fischbach, Assistant Professor Department of Bioengineering and Therapeutic Sciences University of California San Francisco	Insights from a global view of secondary metabolism: Small molecules from the human microbiota Mo Khalil <a "="" href="http://www.fischbachgroup.org/michaelfischbachgroup.org/mi</td></tr><tr><td>4/17/14</td><td>Ned Wingreen Howard A. Prior Professor of the Life Sciences Department of Molecular Biology Princeton University</td><td>Why are chemotaxis receptors clustered but other receptors aren't? Pankaj Mehta http://www.princeton.edu/molbio/wingreenlab/research/
3/27/14	Sidharha Goyal Professor of Physics and Bioscience University of Toronto	Clonal structure of blood in primates is consistent with "neutral" dynamics Host: Pankaj Mehta

3/20/14	Erel Levine Assistant Professor of Physics Harvard University	Clash of populations: Host-Microbe Interactions in C. elegans Alex Lang, Mehta Lab https://www.physics.harvard.edu/people/facpages/levine
3/13/14	Kinga Hosszu & Cesar Berrios-Otero A Joint Presentation, Faculty of 1000	Sharing data and measuring research impact Host: Tom Tullius
2/27/14	Robert Hazen Research Scientist at the Carnegie Institution of Washington's Geophysical Laboratory Clarence Robinson Professor of Earth Science at George Mason University	The Co-Evolution of the Geosphere and Biosphere Scott Mohr http://hazen.gl.ciw.edu
2/20/14	Philippe Cluzel Gordon McKay Professor of Applied Physics Professor of Molecular and Cellular Biology Harvard University	Uncovering scaling laws to infer multi-drug response of resistant microbes and cancer cells Pankaj Mehta http://labs.mcb.harvard.edu/Cluzel/
2/6/14	Jané Kondev Professor of Physics Brandeis University	Action at a distance in the yeast nucleus Alex Lang, Mehta Lab http://www.brandeis.edu/dy
1/23/14	Zev Gartner, Assistant Professor Department of Pharmaceutical Chemistry University of California San Francisco	Building tissues to understand how tissues build themselves Mo Khalil http://gartnerlab.ucsf.edu/

Date	Speaker / Affiliation	Seminar Title
12/12/13	A.J. Marian Walhout Co-Director, Program in Systems Biology Professor, Program in Molecular Medicine University of Massachusetts Medical School Host: Trevor Siggers	Nutritional Regulatory Networks
12/5/13	Myles Brown, Professor, Department of Medicine Harvard Medical School Physician, Oncology, Brigham And Women's Hospital Professor of Medicine, Medical Oncology Dana-Farber Cancer Institute Host: Trevor Siggers	Genetics and Epigenetics of Hormone Dependence
11/21/13	Aik Choon Tan Associate Professor of Bioinformatics Program for the Evaluation of Targeted Therapy Division of Medical Oncology Dept. of Medicine, School of Medicine University of Colorado Host: Mark Kon	Translational Bioinformatics: Connecting Genes with Therapies
11/14/13	Stephen Michnick Integrated Genomics, University of Montreal Host: Pankaj Mehta	The hidden impulse of the incredible shrinking cell
11/7/13	Suzanne Gaudet Department of Cancer Biology Dana Farber Cancer Institute Department of Genetics, Harvard School of Medicine Host: Trevor Siggers	Leveraging cell-to-cell variability to understand TNF-induced transcription circuits

10/17/13	Dan Jarosz, Assistant Professor Chemical and Systems Biology Stanford School of Medicine Host: Mo Khalil	Environmentally regulated capacitors of evolutionary change
10/10/13	Marcus Noyes, Associate Research Scholar Lewis-Sigler Institute for Integrative Genomics Princeton Host: Mo Khalil	Comprehensive Screens and Computational Analysis of Cys2His2 Zinc Fingers Uncovers Complexities of DNA-Binding Specificity
9/12/13	Gregoire Altan-Bonnet, Computational Biologist Computational Biology Center Memorial Sloan Kettering Cancer Center	Computational modeling of error-correction through cell-to-cell communications in the immune system" Pankaj Mehta
2/21/13	Edward O'Brien, PhD NSF Postdoctoral Research Fellow Department of Chemistry, University of Cambridge	Computational Biology Faculty Search Seminar Understanding cotranslational protein folding at the molecular and cellular levels
2/14/13	Michael DeGiorgio, PhD NSF Postdoctoral Research Fellow Department of Integrative Biology, UC Berkeley	Computational Biology Faculty Search Seminar Using models of evolutionary history to understand human genetic variation
2/05/13	Sharon Aviran, PhD Assistant Researcher Center for Computational Biology, UC Berkeley	Computational Biology Faculty Search Seminar High-throughput RNA structure analysis from footprinting experiments
1/31/13	Kirill Korolev, PhD Pappalardo Postdoctoral Fellow, Physics Department, MIT	Computational Biology Faculty Search Seminar Ecology and evolution of cancerous tumors and expanding populations
1/24/13	Anshul Kundaje, PhD Research Scientist, Computational Biology Group, MIT	Computational Biology Faculty Search Seminar Heterogeneity and diversity of regulatory elements in the human genome
12/13/12	Mark Bathe Assistant Professor Biological Engineering MIT	Data-driven Physical Biology
12/06/12	Josh Shaevitz, Assistant Professor Physics and Genomics Princeton University	The biophysics of behavior from cellular patterns to animal movements

11/29/12	Arjun Raj, Assistant Professor Bioengineering University of Pennsylvania	Taking a picture of transcriptional activity along a single chromosome
11/15/12	Brian Athey, Chair Department of Computational Medicine and Bioinformatics University of Michigan Medical School	tranSMART: An Emerging Global Open Source Community for Data Sharing and Informatics Analysis
11/08/12	Alexandre V. Morozov Assistant Professor Department of Physics & Astronomy Rutgers University	Biophysical models of chromatin in yeast and C. elegans
11/01/12	Honghuang Lin Research Assistant Professor Boston University School of Medicine	A genetics approach to studying atrial fibrillation
10/25/12	Jason Bohland Assistant Professor Health Sciences Department Boston University	Data-driven studies of the large-scale molecular architecture of the mouse and human brain
10/18/12	Riccardo Papa Department of Biology University of Puerto Rico	The mesmerizing patterns of <i>Heliconius</i> butterflies wings
10/04/12	Trevor Siggers Assistant Professor of Biology Boston University	Importance of Protein Complexes in Gene Regulatory Logic
8/16/12	Yitzhak Pilpel Department of Molecular Genetics Weizmann Institute of Science Israel	Evolution of Gene Expression in Cancer and in Yeast
5/10/12	Nathaniel Cady, Assistant Professor College of Nanoscale Science & Engineering University at Albany	Mixed Signals: A systems approach to interrupting cellular signaling and behavior
5/3/12	Horacio Frydman, Assistant Professor Department of Biology & Associate Director, Vector Transmitted Infectious Diseases Core National Emerging Infectious Diseases Laboratories Institute, Boston University	From cellular mechanisms to evolutionary aspects of host-microbe interactions: the case of <i>Wolbachia</i> targeting stem cell niches

4/26/12	Katie Steiling, Assistant Professor of Medicine Boston University School of Medicine	Airway gene expression reflects a treatment-responsive COPD field of injury
4/19/12	Jennifer Reed, Assistant Professor Department of Chemical and Biological Engineering University of Wisconsin-Madison	Systems Approaches for Exploring and Exploiting Cellular Metabolism
3/22/12	Mark DePristo, Co-Director Genome Sequencing and Analysis Group Medical and Population Genetics Program Broad Institute	Under the hood of the 1000 Genomes Project
3/15/12	Manolis Kellis, Associate Professor Computer Science and Electrical Engineering Dept. MIT	Genomic and epigenomic signatures for interpreting complex disease
3/8/12	Zoltan Oltvai, Associate Professor of Pathology Assistant Director, Division of Molecular Diagnostics, University of Pittsburg School of Medicine	The systems biology of cancer metabolism
3/1/12	Gustavo Stolovitzky, PhD IBM Computational Biology Center	Quantitative Predictive Modeling in Biological Research
2/23/12	Paul Francois, Assistant Professor of Physics McGill University	Physics of Evo-Devo
12/15/11	Eric Siggia, Professor Laboratory of Theoretical Condensed Matter Physics The Rockefeller University	Geometry, Epistasis and Developmental Patterning
12/8/11	Justin Kenney, Quantitative Biology Fellow Cold Spring Harbor Laboratory	Using deep sequencing to characterize the biophysical mechanism of a transcriptional regulatory sequence
12/1/11	John Higgins, Assistant Professor of Systems Biology Harvard University & MGH	Population Dynamics of Circulating Human Red Blood Cells in Health and Disease
11/17/11	Narenda Maheshri, Assistant Professor of Chemical Engineering MIT	A tale of two switches and targeted mutagenesis
11/10/11	Angela DePace, Assistant Professor Department of Systems Biology Harvard Medical School	Quantitative comparison of regulatory circuits across Drosophila species

10/27/11	Chris Gabel, Assistant Professor of Physiology and Biophysics BU School of Medicine	Worm Neurosurgery: Using femtosecond lasers to study neuronal damage in <i>C. elegans</i>
9/29/11	Sam Isaacson, Assistant Professor Department of Math and Statistics Boston University	Influence of Cellular Substructure on Gene Regulation and Expression
9/22/11	Junhyong Kim, Edmund J. and Louise W. Kahn Professor Department of Biology Co-Director, Penn Genome Frontiers Institute	Fuzzy thinking: single neuron variation in RNA state space
9/15/11	Martin Herbordt, Associate Professor Department of Electrical and Computer Engineering Boston University	Bio-Computing with Computational Accelerators
5/26/11	Alain Arneodo, PhD Laboratoire Joliot-Curie Laboratoire de Physique Ecole Normale Supérieure de Lyon	Replication domains are self-interacting structural chromatin units of human chromosomes
5/19/11	Xiaoxia Lin Assistant Professor of Chemical Engineering University of Michigan	Elucidating and Engineering Microbial Communities: Systems and Synthetic Biology Approaches
5/12/11	Jasmin Fischer, Ph.D. Microsoft Research Cambridge	Executable Biology: Successes & Challenges
5/5/11	Overview of the MGHPCC Research Computing Center	The Massachusetts Green High Performance Computing Center (MGHPCC) is a research computing data center that is being designed and built in Holyoke, MA by a collaboration comprising Boston University, MIT, Harvard, Northeastern, and University of Massachusetts, as well as the Commonwealth of Massachusetts

4/28/11	Ziv Bar-Joseph, Associate Professor Machine Learning Department and the Lane Center for Computational Biology School of Computer Science Carnegie Mellon University	Linking the Signaling Cascades and Dynamic Regulatory Networks Controlling Stress Response
4/20/11	Andrea De Martino, PhD Department of Physics (CNR-IPCF) Sapienza University of Rome	The free energy landscape of metabolism: the energy balance problem for reaction networks revisited
3/24/11	Douglas Densmore Richard and Minda Reidy Family Career Development Assistant Professor Department of Electrical Engineering Boston University	A Tool-Chain to Accelerate Synthetic Biological Engineering
3/10/11	Joao Xavier, Principal Investigator Program in Computational Biology Memorial Sloan Kettering Cancer Center	Conflict and cooperation in microbial pathogens
2/9/11	Pamela A. Silver, Professor Department of Systems Biology Harvard Medical School	Designing biological systems of health and sustainability
1/20/11	Pankaj Mehta, Assistant Professor Physics Department Boston University	Communication and collective behavior in unicellular organisms
12/16/10	Ran Kafri, Postdoctoral Research Fellow Kirschner/Lahav Laboratory Department of Systems Biology Harvard Medical School	Dynamics and regulation of protein mass production in cancer cells revealed by Ergodic Rate Analysis (ERA) of single cell immunofluorescence measurements
6/24/10	Mihai Pop, Assistant Professor Department of Computer Science and the Center for Bioinformatics / Computational Biology University of Maryland, College Park	Analyzing microbial communities through sequencing
6/22/10	Ichigaku Takigawa, PhD Institute for Chemical Research Kyoto University	Ranking metabolic pathways based on transcriptional co-regulation of enzyme-coding genes

5/21/10	John Spouge, MD, PhD	
	Senior Investigator	A Rigorous Statistical Theory for Detecting Repeats in Biological
	National Library of Medicine, NIH	Sequences
	Adjunct Professor, BU Bioinformatics	
4/15/10	Nir Hacohen, PhD	
	Center for Immunology and Inflammatory Diseases	Using RNAi to discover genes and networks of the immune system
	Harvard Medical School, Massachusetts General	Osing RIVAL to discover genes and networks of the infinitione system
	Hospital and the Broad Institute	
3/25/10	Curtis Huttenhower, Assistant Professor of	
	Computational Biology and Bioinformatics	Supervised and unsupervised methods for large scale genomic data
	Department of Biostatistics	integration
	Harvard School of Public Health	
3/18/10	Richard Lamont, Professor	
	Department of Oral Biology	The Pathoecology of Porphyromonas gingivalis
	College of Dentistry	The Futhocology of Forphyromonus gingivuis
	University of Florida	
3/11/10	Jin Billy Li	
	Postdoctoral Fellow	Targeted Sequencing of Genomic and Transcriptomic Variations
	Harvard Medical School	
3/4/10	Jonghwan Kim	Transcriptional Regulatory Networks for Pluripotency of Embryonic
	Postdoctoral Fellow	Stem Cells
	Harvard Medical School	Stem delis
2/26/10	Trey Ideker	
	Professor and Division Chief	Protein Network Based Biomarkers in Development and Disease
	Medical Genetics	Trotein Network Based Biolilarkers in Development and Disease
	University of California San Diego	
2/25/10	Jeffrey Chang	
	Postdoctoral Fellow	Genomic Strategies to Decipher the Complexity of Cancer
	Institute for Genome Sciences & Policy	denomine strategies to becipiler the complexity of current
	Duke University	
2/18/10	Eric Batchelor	The ups and downs of p53: Analysis of p53 dynamics in response to
	Postdoctoral Fellow	DNA damage
	Harvard Medical School	

1/21/10	Artem Barski Postdoctoral Fellow National Heart, Lung and Blood Insitute NIH Maryland	ChIP-Seq, poised Genes and T cell memory
12/10/09	Luis Carvalho, Asst. Professor Dept. of Mathematics and Statistics Boston University	Centroid estimation for high-dimensional discrete inference with applications in computational biology
11/19/09	Gyan Bhanot, Professor Department of Molecular Biology and Biochemistry Department of Physics and BioMaPS Institute Rutgers University	A simple method for identifying dysregulated mRNA targets of microRNA in cancer with application to ccRCC
11/5/09	Thomas Kepler, Professor Laboratory of Computational Immunology Duke University	The Dynamics of T-Cell Receptor Repertoire Diversity Following Thymus Transplantation for DiGeorge Anomaly
10/29/09	Jingdon Tian, Assistant Professor Department of Biomedical Engineering Institute for Genome Sciences and Policy Duke University	Enabling Efficient Design, Construction, and Optimization of Synthetic BioSystem
10/15/09	Arnie Levine, Professor Institute for Advanced Study Princeton	The Evolution of the p53 Family of Genes
9/17/09	Yoav Freund, Professor UC San Diego	Applications of Machine Learning in Bio-Informatics