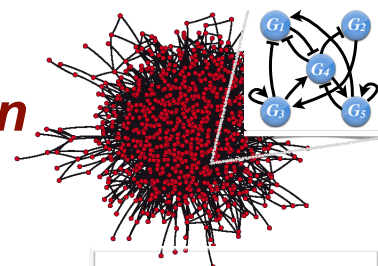


NetSciReg'13

Network Models in Cellular Regulation

Program



Technical University of
Copenhagen, Lyngby
DTU Meeting Center
Room S10

9:00 - 9:10 Opening remarks (Erzsébet Ravasz Regan)

Section 1 - Effects of network structure on regulatory dynamics

9:10 - 10:00 **Kim Sneppen** - *Epigenetics in Cis and multistability in olfactory differentiation (invited talk)*

Niels Bohr Institute, University of Copenhagen, Denmark

10:00 - 10:25 **Zsolt Lázár** - *Local and Global Criticality Conditions in Highly Modular Random Boolean Networks (contributed)*

Babes-Babeş-Bolyai University, Romania

10:25 - 10:50 **Tim Rogers** - *Noise-induced metastability in biochemical networks (winning contributed talk)*

University of Bath, UK

10:50 - 11:20 **Coffee Break**

Section 2 - Design principles of small regulatory circuits

11:00 - 11:50 **Pawel Paszek** - *Dynamics and function of the NF-kappaB regulatory network (invited talk)*

University of Manchester, UK

11:50 - 12:15 **Qi Ma** - *Exploring links between structure and function of biological networks by current-reinforced random walks (contributed)*

Uppsala University, Sweden

12:15 - 12:40 **Vera Pancaldi** - *Time-scales and stochasticity in a Boolean model of stress response in yeast (contributed)*

Spanish National Cancer Research Centre, Spain

12:40 - 2:00 **Lunch Break** (on your own)

Section 3 - Interdependence of regulatory network evolution and dynamics

2:00 - 2:30 **Zoltán Toroczkai** - *Functional modularity from simultaneous adaptation to multiple constraints (invited talk)*

University of Notre Dame, USA

2:30 - 2:50 **Erzsébet Ravasz Regan** - *Dynamical Modularity of Mammalian Cell Proliferation (contributed talk)*

Beth Israel Deaconess Medical Center, Harvard Medical School, USA

2:50 - 3:15 **Chaoming Song** - *Global Epigenetic State Network Governs Cellular Pluripotent Reprogramming and Transdifferentiation (contributed)*

Northeastern University, USA

3:15 - 4:05 **Sergei Maslov** - *Parkinson's Law in bacterial regulation (invited talk)*

Brookhaven National Laboratory

4:05 - 4:35 **Coffee Break**

Panel Discussion

4:35 - 5:15 The future of mechanistic modeling in biology
Theme: What is missing from our conceptual or technical repertoire?