



First EMBL/CRG Systems Biology Workshop

## “The Evolution of Biological Networks”

12-13 July 2010, CRG, Barcelona

### MONDAY - 12 July 2010

**Adam WILKINS**

9:30 10:30 *Department of Zoology, University of Cambridge, UK*

Fifty years of genetic network-thinking in biology: what are the questions now?

**James SHARPE**

10:30 11:30 *Centre for Genomic Regulation, Barcelona ES*

Navigating the space of possibilities

11:30 12:00 *coffee break*

**Kevin VERSTREPEN**

12:00 13:00 *VIB lab for Systems Biology & CMPG Lab for Genetics and Genomics, KULeuven / University of Louvain, BE*

Mechanisms underlying swift evolution and adaptation in yeast

**Andreas WAGNER**

13:00 14:00 *Department of Biochemistry, University of Zurich, CH*

On the origins of evolutionary innovation

14:00 15:00 *lunch*

**Yogi JÄGER**

15:00 16:00 *Centre for Genomic Regulation, Barcelona ES*

Shift Happens: The evolutionary and developmental dynamics of the gap gene network

**Michael LÄSSIG**

16:00 17:00 *Statistical Physics and Quantitative Biology, Institute for Theoretical Physics, University of Cologne*

Independence and interference of molecular functions



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### TUESDAY - 13 July 2010

**Lars STEINMETZ**

9:30 10:30 *Joint Head of Genome Biology Unit, EMBL Heidelberg, DE*  
Implications of pervasive non-coding RNA expression

**Ben LEHNER**

10:30 11:30 *Centre for Genomic Regulation, Barcelona ES*  
Perturbing genes and predicting the outcome

11:30 12:00 *coffee break*

**Richard LENSKI**

12:00 13:00 *Experimental Evolution, Michigan State University, East Lansing (MI), US*  
The Dynamics of Phenotypic and Genomic Evolution During a 50,000 Generation Experiment with *E. coli*

**Mark ISALAN**

13:00 14:00 *Centre for Genomic Regulation, Barcelona ES*  
The propagation of perturbations in rewired gene networks

14:00 15:00 *lunch*

**Ricard SOLÉ**

15:00 16:00 *ICREA-Complex Systems Lab, Universitat Pompeu Fabra, Barcelona ES*  
Evolvability, tinkering and causality in cellular networks

16:00 17:00 *General discussion*