

Program for the Summer School on „NanoScience and Systems Biology“

July 25-28, 2005, LMU Gene Center, Grosshadern-Martinsried Life Sciences Campus

Status: July 18, 2005

Monday, July 25		
09.00 – 09.15	Patrick Cramer (Gene Center)	Welcome
09:15 – 09:30	Joachim Rädler (CeNS)	Intoduction to the Summer School
09:30 – 10:30	Eduardo Mendoza (MSBF)	Systems Biology: its past, present and potential
10:30 – 11:00	Coffee Break	
11:00 – 12:30	Eberhard Voit (Georgia Tech & Emory University)	Metabolic Networks I: The Challenge of Complexity
12:30 – 14:00	Lunch	
14:00 – 15:30	Olaf Wolkenhauer (University of Rostock)	(Biological) Pathways as (Mathematical) Morphisms I
15:30 – 16:00	Coffee Break	
16:00 – 17:30	Reinhard Laubenbacher (VBI/Virginia Tech)	System identification of biochemical networks, esp. gene regulatory networks I
19:00 – 22:00 Altbau der Physik	all	Poster Session 1 & Junior Researcher Talks <ul style="list-style-type: none"> - D. Camacho (VBI) - O. Camoglu (UCSB) - C. Monterola (UPD/MPI-PKS) - C. Kuttler (GSF) - S. Lampoudi (UCSB) - J. Maloney (Caltech)
Tuesday, July 26		
09:00 – 10:30	Eberhard Voit (Georgia Tech & Emory University)	Metabolic Networks II: Case Studies
10:30 – 11:00	Coffee Break	
11:00 – 12:30	Olaf Wolkenhauer (University of Rostock)	(Biological) Pathways as (Mathematical) Morphisms II: The Case of Signal transduction networks
12:30 – 14:00	Lunch	
14:00 – 15:30	Reinhard Laubenbacher (VBI/Virginia Tech)	System identification of biochemical networks, esp. gene regulatory networks II
15:30 – 16:00	Coffee Break	
16:00 – 17:30	Dieter Oesterhelt (MPI Biochemistry)	An integrated approach for analyzing functional structures and systems in a model organism
19:00 – 22:00 Altbau der Physik	all	Poster Session 2 & Junior Researcher Talks <ul style="list-style-type: none"> - B. Sumengen (UCSB) - J. Schmitz (LMU) - P. David(UPD/LMU) - S. Kufer (LMU) - A. Y. Dong (LMU) - P. Schlüsche (LMU) - M. Benoit (LMU)

Wednesday, July 27		
08:30 – 09:00	Jürgen Haas (LMU & BayGene)	Topology and Interplay of Cellular and Herpesvirus Protein Interaction Networks
09:00 – 10:30	Michael Roukes (Caltech)	NanoSystems Biology
10:30 – 11:00	Coffee Break	
11:00 – 11:30	Dieter Braun (CeNS)	Microthermal Biotechnology
11:30 – 12:00	Karl-Peter Hopfner (LMU Gene Center)	Molecular machines in the repair of DNA double-strand breaks
12:00 – 12:30	Robert Eibl (TUM Institute of Pathology)	Single-molecule AFM measurements of cell adhesion on living cells
12:30 – 13:00	Michael Ackmann (LMU Biozentrum)	Identification of ligands for orphan human NK cell receptors
13:00 – 14:30	Lunch	
14:30 – 16:00	Joachim Rädler (LMU)	Experimental Aspects of Biomaging
16:00 – 16:30	Coffee break	
16:30 – 18:00	B. S. Manjunath (UC Santa Barbara)	Challenges in Bioimage Informatics
Free Evening		

Thursday, July 28		
09:00 – 10:30	Friedrich Lottspeich (MPI Biochemistry)	Experimental Proteomics: State of the Art
10:30 – 11:00	Coffee Break	
11:00 – 12:30	Roy Bar-Ziv (Weizmann Institute)	Cell-free genetic networks
12:30 – 13:00	Friedrich Simmel (CeNS)	Control for DNA-based molecular machines
13:00 – 14:30	School Close & Lunch	