

**SupraBiology: Supercomputing for Systems Biology and Systems Medicine**  
**MCISB, MIB, University of Manchester, June 16-17, 2014**

**Monday 16 June 2014 (MIB lecture Hall)**

- 09h00-09h10 Hans V. Westerhoff: Workshop logistics  
09h10-09h50 Peng Shao-Liang (Changsha): Bioinformatics and Computational Biology on the TianHe Supercomputer  
09h50-10h30 Hans V. Westerhoff (Manchester): What computing is needed for systems biology and systems medicine  
10h30-11h00 Coffee break  
11h00-11h55 Long Liu (Changsha): Current biological studies in NUDT  
11h55-12h35 Pedro Mendes (Manchester): Simulating systems Biology  
12h35 Lunch  
13h35-14h15 Andrew Narracott (Sheffield): HPC for the Virtual Physiological Human  
14h15-14h55 Janette Jones (Port Sunlight, Unilever): Computing for industry  
14h55-15h30 Tea break  
15h30-16h10 Amin Rostami (Manchester) & Steve Marciniak (Simcyp Ltd):  
Simulation of Population of Individuals in PBPK and PKPD:  
The added value of grid computing compatibility  
16h10-16h50 Andrzej Kierzek (Surrey): QSSPN: Hybrid simulation of qualitative, kinetic and flux balance models  
16h50-17h30 Discussion: possible joint projects  
18h00-20h00 Conference dinner

**Tuesday 17 June 2014 (MIB Lecture Hall)**

- 09h00-09h45 Douglas B. Kell (Manchester): The cellular uptake of pharmaceutical drugs: a problem not of biophysics but of systems biology  
09h45-10h25 Gerold Baier (UCL): Web-based Training In Systems Biology – a China-UK initiative  
10h25-10h50 Coffee break  
10h50-11h30 Peter Coveney (UCL): Multiscale modelling from molecules to physiology  
11h30-12h10 Guan Nai-Yang (Changsha): Non-negative matrix factorization and its applications in bioinformatics  
12h30 Lunch  
14h00-14h40 Jacky Snoep (Manchester): Whole body modelling of glucose metabolism in malaria patients  
14h40-15h20 Neil Swainston (Manchester): Mapping life  
15h30-16h15 Tea break  
16h15-16h55 Chengkun Wu (Manchester): Supercomputing for text mining  
16h55-17h30 Round table discussion on plans for joint research  
17h30 Peng Shao-Liang (Changsha): workshop closure

**Organisers:**

Samrina Rehman, Ettore Murabito, Malkhey Verma, Chengkun Wu.  
Jacky L. Snoep, Shao-Liang Peng, Hans V. Westerhoff

**Location: MIB, University of Manchester**

Organized by the Manchester Centre for Integrative Systems Biology

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