SupraBiology: Supercomputing for Systems Biology

Promoting China-UK collaborations
Manchester Centre for Integrative Systems Biology
Manchester Institute of Biotechnology
June 16–17, 2014
Supercomputing for Systems Biology

Monday 16 June 2014

Hans V. Westerhoff: Workshop logistics

09:10 Peng Shao-Liang, National University of Defense Technology
Bioinformatics and Computational Biology on the TianHe Supercomputer

09:50 Hans V. Westerhoff, University of Manchester
What computing is needed for systems biology and systems medicine

10:30 Coffee break

11:00 Long Liu, National University of Defense Technology
Biochemical studies in NUDT

11.55 Pedro Mendes, University of Manchester
Simulating systems Biology

12:35 Lunch

13:35 Andrew J. Narracott, University of Sheffield
HPC for the Virtual Physiological Human

14:15 Janette L. Jones, Unilever R&D, Port Sunlight, UK
Computing for industry

14:55 Tea break

15:30 Amin Rostami, University of Manchester &
15:50 Steve Marciniak, Simcyp Ltd
Simulation of Population of Individuals in PBPK and PKPD:
The added value of grid computing compatibility

16:10 Andrzej Kierzek, University of Surrey
QSSPN: Hybrid simulation of qualitative, kinetic and flux balance models

16:50 Discussion: Possible joint projects
Tuesday 17 June 2014

**MIB Lecture Theatre**

**09:00**  
Douglas B. Kell, University of Manchester  
*The cellular uptake of pharmaceutical drugs: a problem not of biophysics but of systems biology*

**09:45**  
Gerold Baier, University College London  
*Web-based Training In Systems Biology – a China-UK initiative*

**10:25**  
Coffee break

**10:50**  
Peter Coveney, University College London  
*Multiscale modelling from molecules to physiology*

**11:30**  
Guan Nai-Yang, National University of Defense Technology  
*Non-negative matrix factorization and its applications in bioinformatics*

**12:30**  
Lunch

**14:00**  
Jacky L. Snoep, University of Manchester  
*Whole body modelling of glucose metabolism in malaria patients*

**14:40**  
Neil Swainston, University of Manchester  
*Mapping life*

**15:30**  
Tea break

**16:15**  
Chengkun Wu, University of Manchester  
*Challenges for biomedical text mining at a large scale*

**16:55**  
Round table discussion on *plans for joint research*

**17:30**  
Peng Shao-Liang: *Workshop closure*
Sponsored by

Organized by
Hans V. Westerhoff
Jacky L. Snoep
Peng Shao-Liang
Chengkun Wu
Samrina Rehman
Malkhey Verma
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