3rd Joint Workshop "Profiling Technologies & Bioinformatics" 16-18th of September 2009

Riken Institute (Japan)

UPSC (Sweden)

MPI-MP (Germany)

Wednesday 16th of September Lecture hall: **BiA410 66 pl, Biologihuset**

9:00-9:05	Welcome and Introduction	Thomas Moritz, UPSC
9:05-9:40	Analyzing time-series data: causality and complexity	Dirk Walther, MPI
9:40-10:05	Gene expression mechanism under rhythmic fluctuations	Yoshiko Hasegawa; Riken
10:05-10:25	Coffee	
10:25-10:50	Dynamic modeling of time-series metabolomics profiling data	Johan Trygg; UPSC, CLic
10:50-11:15	Dynamic changes of mitochondrial protein complexes under oxidative stress.	Toshihiro Obata; MPI
11:15-11:40	The interaction between diurnal and circadian-regulation results in dynamic metabolic and transcriptional changes during cold acclimation	Carmen Espinoza; MPI
11:40-12:05	Monitoring kidney transplant patients during metabolomics and dynamic modeling.	Rasmus Madsen; CLic
12:05-13:15	Lunch at Universum	
13:15-13:40	A systems biology approach to model the transcriptional and metabolic network in Populus	Torgeir Hvidsten; UPSC; CLic
13:40-14:05	Reconstruction and visualization of the genetic and metabolic networks of *Bacillus subtilis*.	Kozo Nishida, Riken
14:05-14:30	Deciphering how metabolic networks re-program through MS-based metabolite profiling.	Atsushi Fukushima; Riken
14:30-14:55	On revealing the metabolic context of signaling	Joachim Selbig; MPI
14:55-15:15	Coffee	
15:15-15:40	Identifying genes involved in early leaf development.	Nathaniel Street; UPSC
15:40-16:05	Pitfalls' in compiling proteomics data from different model systems	Robert Nilsson; UPSC
16:05-16:30	Concluding remarks	
16:30-	Guided tour UPSC	

Thursday 17th of September Lecture hall **"Sälgen" SLU**

9:00-9:35	Designing a cyberinfrastructure for metabolomics.	Masanori Arita; Riken
9:35-10:00	Populus metabolomics at UPSC: from large-scale phenotyping to metabolite dynamics.	Thomas Moritz; UPSC
10:00-10:20	Coffee	
10:20-10:45	Metabolomics reveals the crucial role of cytosolic glutamine synthetase 1;1 in the maintenance of metabolic balance in rice	Miyako Kusano; Riken
10:45-11:10	Architecture of flavonoid distributions across plant species.	Kazuhiro Takemoto; Tokyo
11:10-11:35	Metabolome phenotyping of inorganic carbon limitation in cells of the cyanobacterium synochocystis sp. Strain PCC 6803.	Jan Huege; MPI
11:35-12:00	Regulation of the plant root metabolism under oxidative stress in Arabidopsis thaliana.	Martin Lehmann; MPI
12:00-13:20	Lunch at Universum	
13:20-13:50	"UPSC": title not decided yet	Ove Nilsson; Chair UPSC
13:50-14:00	Short break	
14:00-14:25	Predictive metabolomics in human health and disease.	Henrik Antti; UPSC, CLic
14:25-14:50	Phenolic compound profiles of wild species tomato: a survey of the Solanum lycopersicum	Takayuki Tohge; MPI
14:50-15:20	Coffee	
15:20-15:45	Metabolic profiling as a key to understand herbivore resistance in Populus	Benedicte Albrectsen; UPSC
15:45-16:10	Salicylates in Populus	Maria Hansson; UPSC
16:10-16:30	Concluding remarks	
18:30-	Dinner at UPSC	
19:15-	Workshop: time-series analysis	

Friday 18th of September Lecture hall: "Sälgen" SLU

9:00-9:35	Data integration from a diagnostics perspective	Max Bylesjö;
9:35-10:00	Functional analysis of small open reading frames with coding potential in intergenic regions of plant genome (A. thaliana and O. sativa)	Kousuke Hanada; Riken
10:00-10:20	Coffee	
10:20-10:45	Compensation of systematic cross-contribution improves normalization of mass spectrometry based metabolomics data.	Henning Redestig; Riken
10:45-11:05	MC-normalisation: a novel method for two-channel microarray data.	Mattias Landfors, CLic
11:05-11:30	Concluding remarks	
11:30-	Lunch Universum	
13:00-	Program not decided yet	UPSC/RIKEN