



### Programme for MASAMB 2009 (for full abstracts please click [here](#))

#### Thursday 2<sup>nd</sup> April

**11:00-12:00 Registration (Flett Theatre, Natural History Museum)**

12:00-13:00 Lunch

13:00-13:10 Welcome and Introduction

#### Session 1 Genomics and Sequence Analysis

13:10-13:30 [Alexander Mantzaris](#), Addressing potential fallacies in Bayesian methods for detecting recombination. BIOS

13:30-13:50 [Paul O'Reilly](#), invertHMM: Detecting genomic inversions from SNP data, Imperial

13:50-14:10 [Si Quang Le](#), SNP detection from low coverage sequencing data of multiple individuals in 1000 Genome Project, Sanger Centre

14:10-14:30 [Daniel Chubb](#), Genome sequencing delivers diminishing returns for homology detection, Imperial

#### 14:30-15:30 Coffee and Posters

#### Session 2 Phylogenetics and Evolutionary Systems Biology

15:30-15:50 [Maxime Huvet](#), Ancestral state inference and network evolution of a bacterial stress response system. Imperial

15:50-16:10 [Carolin Kosiol](#), The dynamics of positive selection on the mammalian tree: A Bayesian inference of selection histories. Veterinary University of Vienna

16:10-16:30 [Daniel Money](#), Characterising the Phylogenetic Tree-Search Problem. U Manchester

16:30-16:50 [Tapesh Santra](#), The Architecture of A Gene Regulatory Network Is Related to Evolutionary Potential. U Glasgow

16:50-17:10 [Jonathan Dickerson](#), Characterising the complexity of HIV-host interactions. U Manchester

#### 17:10-19:00 Drinks Reception and Posters

**20:00 Conference Dinner (details to be announced at conference)**

#### Friday 3<sup>rd</sup> April

#### Session 3 Interactomics and Post-Genomic Methods

9:00-9:20 [Simon Lovell](#) The evolution of yeast protein-protein interaction networks U Manchester

9:20-9:40 [Carsten Wiuf](#) An Algebraic Topology Approach to the Classification of Protein Domain Structures. Aarhus.

9:40-10:00 [Simon Rogers](#) A Network Prior for the Bayesian Assignment of Mass Peaks to Formulas in Metabolomics. U Glasgow

10:00-10:20 [Christopher Penfold](#) Inferring Changes in Chromosome State During Cell Division. Warwick

10:20-11:00 Coffee and Posters

#### Session 4 Quantitative Analysis of Networks and Dynamical Systems

11:00-11:20 [Leopold Parts](#) Identifying genetic interactions with sparse hidden factors Sanger

11:20-11:40 [Antti Honkela](#) Identifying targets of transcriptionally regulated transcription factors using dynamical models. Helsinki University of Technology

11:40-12:00 [Kamil Erguler](#) Parameter Inference and Sensitivity Analysis on Biochemical Models. Imperial

12:00-12:20 [Ben Calderhead](#) PDQ-MCMC for Nonlinear Biochemical System Models U Glasgow

12:20-12:40 [Anthony Collen](#) Quantifying and comparing complexity of cellular networks: structure beyond degree statistics. Kings College London

**12:40-13:50 Lunch**

13:50-14:00 Vote/Announcement of next MASAMB Meeting

**Session 5 Mechanistic Models in Systems Biology**

14:00-14:20 [Rich Savage](#) Transcriptional modules in Arabidopsis thaliana stress responses: an application of Bayesian data fusion. U Warwick

14:20-14:40 [Hariklia Eleftherohorinou](#) Pathway analysis reveals genetic fingerprint of common inflammatory diseases, Imperial

14:40-15:00 [Guido Sanguinetti](#) Switching regulatory models of cellular stress reaction. Sheffield

15:00-15:20 [Piers Ingram](#) Noise Non-identifiability and Parameter Estimation in the Standard Model of Gene Expression. Imperial

15:20-15:40 [Martino Barenco](#) Non-linear modelling of gene expression data. UCL

**15:40-15:50 Closing Statements**

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