Center of Bioinformatics \& Institute of Mathematical Sciences \& Center for Integrative Systems Biology at Imperial College London

April 1 ${ }^{\text {st }} 2009$

## Programme

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Wednesday 1 }\mp@subsup{}{}{\mathrm{ st }}\mathrm{ April
11:00-11:40 High resolution multi-platform copy number variation genotyping and imputation using a haplotype
hidden Markov model
Lachlan Coin
11:40-12:00 The Identification of Informative Genes from Multiple Datasets with Increasing Complexity
Yahya Anvar
12:00-12:20 Detecting Evolutionary Inter-Gene Heterogeneity in Borrelia burgdorferi
Elisa Loza Reyes
Lunch
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14:00-14:20 Prediction of the role of mutations in gap junction genes from a large scale computational model of the cochlea
of the inner ear

Pavel Mistrik
14:20-14:40 Gaussian process regression bootstrapping
Paul Kirk
14:40-15:00 Estimation of Multiple Transcription Factor Activities using ODEs and Gaussian Processes Michalis Titsias
15:00-15:20 Definition of Valid Proteomic Biomarkers: Bayesian Solutions to a Currently Unmet Challenge Keith Harris

Tea/Coffee

15:50-16:30 Time-varying genetic network inference using informative priors Sophie Lebre
16:30-16:50 Moment closure and block updating for parameter inference in stochastic biological models
Peter Milner
16:50-17:10 Moment closure and block updating for parameter inference in stochastic biological models Tina Toni
17:10-17:30 Exploring experimental designs for network inference using perturbations and a Bayesian sequential learning strategy
Christopher Penfold

## Programme

Thursday $2^{\text {nd }}$ April
9:00-9:40 Hybrid inference for stochastic kinetic models
Andrew Golightly
9:40-10:00 Bayesian Hypotheses Testing in Raman Spectroscopy
Vladislav Vyshemirsky
1000-1020 Inference in a probabilistic model of dynamic DNA
Catherine Higham
Tea/Coffee
1050-1110 Beyond Molecular Biology - Applying Gene Regulation Network Inference Methods in Ecology Frank Dondelinger
1110-1150 Temporal Development and Collapse of an Arctic Plant-Pollinator Network Carsten Wiuf


