

### Wednesday 19th September 2007

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18:00–20:00 Joint reception with QEST in the Fellows Library of the Royal College of Surgeons, Nicolson St, Edinburgh, EH8 9DW.

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### Thursday 20th September 2007

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8:30–9:00 Registration at the e-Science Institute, 13–15 South College Street, Edinburgh EH8 9AA

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9:00–10:00 **Invited speaker:** Daniel T. Gillespie.  
*Stochastic Chemical Kinetics.*

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10:00–10:45 Coffee

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10:45–11:15 Raya Khanin and Des Higham.  
*Chemical Master Equation and Langevin Regimes for a Gene Transcription Model*

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11:15–11:45 Werner Sandmann.  
*Simultaneous Stochastic Simulation of Multiple Perturbations in Biological Network Models*

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11:45–12:15 Federica Ciocchetta, Jane Hillston, Martin Kos and David Tollervey.  
*Modelling Yeast pre-rRNA Processing*

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12:15–13:30 Lunch

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13:30–14:00 François Fages and Aurélien Rizk.  
*On the Analysis of Numerical Data Time Series in Temporal Logic*

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14:00–14:30 Heike Siebert and Alexander Bockmayr.  
*Context Sensitivity in Logical Modelling with Time Delays*

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14:30–15:15 Tea

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15:15–15:45 Cristian Versari and Nadia Busi.  
*Stochastic Simulation of Biological Systems with Dynamical Compartment Structure*

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15:45–16:15 Martyn Brown, Paul Rees, Steve Wilks, Huw D. Summers, Rachel J. Errington, Kerensa L. Njoh, Sally C. Chappell, Paul J. Smith and James F. Leary.  
*Computational Simulation of Optical Tracking of Cell Populations using Quantum Dot Fluorophores*

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16:15–16:45 Lorenzo Dematté, Corrado Priami, Alessandro Romanel and Orkun Soyer.  
*A Formal and Integrated Framework to Simulate Evolution of Biological Pathways*

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19:30 Conference Dinner in the Royal Society of Edinburgh, 22–26 George Street, Edinburgh, EH2 2PQ.

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## Friday 21st September 2007

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9:00–10:00	<b>Invited speaker:</b> Mark Girolami. <i>The Convergence of Mechanistic and Statistical Modelling within Systems Biology.</i>
10:00–10:45	Coffee
10:45–11:15	Bartek Wilczynski and Jerzy Tiurny. <i>Reconstruction of Mammalian Cell Cycle Regulatory Network from Microarray Data using Stochastic Logical Networks</i>
11:15–11:45	Maria Luisa Guerriero, John Heath and Corrado Priami. <i>An Automated Translation from a Narrative Language for Biological Modelling into Process Algebra</i>
11:45–12:15	Andrea Bracciali, Marcello Brunelli, Enrico Cataldo and Pierpaolo Degano. <i>Expressive Models for Synaptic Plasticity</i>
12:15–13:30	Lunch
13:30–14:00	Alberto Credi, Marco Garavelli, Cosimo Laneve, Sylvain Pradalier, Serena Silvi and Gianluigi Zavattaro. <i>Modelization and Simulation of Nano Devices in <math>\text{nanok}</math> Calculus</i>
14:00–14:30	Andrew Phillips and Luca Cardelli. <i>Efficient, Correct Simulation of Biological Processes in the Stochastic <math>\pi</math>-calculus</i>
14:30–15:15	Tea
15:15–15:45	David Gilbert, Monika Heiner and Sebastian Lehrack. <i>A Unifying Framework for Modelling and Analysing Biochemical Pathways Using Petri Nets</i>
15:45–16:15	Liliana Félix, Francesc Rosselló and Gabriel Valiente. <i>Reconstructing Metabolic Pathways by Bidirectional Chemical Search</i>
16:15–16:45	Aurélien Naldi, Denis Thieffry and Claudine Chaouiya. <i>Decision Diagrams for the Representation and Analysis of Logical Models of Genetic Networks</i>
16:45	Close

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