

Minisymposium:
*Spatio-temporal modelling of gene regulatory networks
and intracellular signalling pathways*
Monday 16th June, 16:00 - 19:00

- 16:00 - 16:05 M. Chaplain, University of Dundee
Welcome and Introduction
- 16:05 - 16:40 A. Cangiani, University of Leicester
Modelling and numerical simulation of cellular molecular signalling
- 16:40 - 17:15 Z. Szymańska, ICM Warsaw
*Mathematical modelling of intracellular protein dynamics:
The importance of active transport along microtubules*
- 17:15 - 17:50 A. Hellander, Uppsala University
Spatial stochastic simulation of intracellular pathways
- 17:50 - 18:25 M. Sturrock, MBI, Ohio State University
*Spatio-temporal modelling of gene regulatory networks:
transcription factors, negative feedback loops and oscillatory dynamics*
- 18:25 - 19:00 J. Elias and J. Clairambault, UPMC Paris VI & INRIA Paris-Rocquencourt
*Dynamics of p53 in single cells: A spatio-temporal reaction-diffusion PDE model
for activation and regulation of p53*