

# 11151 Schedule

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## Schedule

### Sunday

Evening: Arrival in Dagstuhl. Dinner is available until late in the evening.

### Monday

10:00-10:15 Introduction

10:15-10:45 Keynote 1: Chris Myers, Utilizing Stochastic Model Checking to Determine the Robustness of Genetic Circuits

10:45-12:00 Short Talks

Celine Kuttler, Modeling the community effect in development 1

Kirill Batmanov, Modeling the community effect in development 2 - imposing spatial constraints

Mary Ann Blaetke, JAK/STAT-Pathway - A Case Study of the Modular Petri Net Modeling Concept

Maciej Dobrzynski, Single cell signaling and protein expression noise give rise to digital response on the population level

12:00-13:00 Lunch

13:00-13:30 Keynote 2: Rainer Breitling, Metabolomics Systems Biology

13:30-15:00 Short Talks

Matthias Jeschke, Investigating the Switch-like Response in Yeast Pheromone Signaling

Natal van Riel, Combining Bayesian and Frequentist parameter inference methods in systems biology

Elzbieta Krepska, Proving stabilization of large-scale biological systems

Wolfgang Marwan, Automatic Reconstruction of Extended Petri Nets from Experimental Data

15:00-16:00 Coffee Break

16:00-17:00 Round of introduction - Team formation for Competition

17:00-18:00 Dinner

18:00-open end Modelling Competition Work

## Tuesday

10:00-10:30 Keynote 3: Simon Hardy, Analysis of the regulatory motif dynamic of signaling networks using Petri net-based dynamic graphs

10:30-12:00 Short Talks

Fei Liu, Colored Petri nets for modeling and analyzing biological systems

Adeline Uhrmacher, Abstractions in Spatial Simulation in Cell Biology

Anna Gambin, Tav4SB: analysis of kinetic models of biological systems 'in the cloud'

Bartek Wilczynski, Inference and Stability of Stochastic Models in Systems Biology

12:00-13:00 Lunch

13:00-13:30 Keynote 4: Brett Olivier

13:30-15:00 Short Talks

Andrea Bracciali, Modelling HIV infection: a computational overview

Maria Luisa Guerriero, Stochastic model of the plant circadian clock - A Bio-PEPA case study

Alessandro Romanel, Rule-based modeling and application to biomolecular networks

Chiara Bodei, Towards a Taxonomy of Causality-Based Biological Properties

15:00-16:00 Coffee Break

16:00-17:00 Modelling Competition Work

17:00-18:00 Dinner

18:00-open end Modelling Competition Work

## Wednesday

10:00-10:30 Keynote 5: Andrzej Kierzek

10:30-12:00 Short Talks

Luca Bortolussi, Hybrid approximation of stochastic process algebra models of biological systems

Mathias John, Reaction Rules with Constraints

Mostafa Herajy, Generalized Hybrid Petri Nets

Carsten Maus, Multi-Level Rule Schemas

12:00-13:00 Lunch

Social event in the afternoon

## Thursday

10:00-10:30 Keynote 6: Verena Wolf, Inference and Stability of Stochastic Models in Systems Biology

10:30-12:00 Preparing for competition presentations

12:00-13:00 Lunch

13:00-13:30 Keynote 7: Pietro Lio

13:30-15:00 Competition Presentations

15:00-16:00 Coffee Break

16:00-17:00 Chalk talks/Informal presentations

17:00-18:00 Dinner

18:00 Meeting of the Award Committee

## Friday

10:00-10:30 Keynote 8: Jane Hillston, Equivalence and Discretisation in Bio-PEPA

10:30-12:00 Conclusions. Final Discussions. Award Ceremony

12:00-13:00 Lunch

Departure at noon.

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