

# BioPPN 2012

## Biological Processes and Petri Nets

**Workshop Chairs:** *Monika Heiner and Ralf Hofstaedt*

**Room:** D-129 Informatics Campus

### Monday, 25th June

**08:45** - Opening

**09:00** - Invited Talk (Room B-201 Informatics Campus):

Wolfgang Marwan

*Petri Nets - an Integrative Framework for Advanced Biomodel Engineering*

**10:00** - Break

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**10:15** - Session A: Analysis Techniques (Room D-129 Informatics Campus)

Paolo Baldan, Nicoletta Cocco, Marta Simeoni - *Comparison of Metabolic Pathways by Considering Potential Fluxes*

Christian Rohr - *Simulative Model Checking of Steady-State and Time-Unbounded Temporal Operators*

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**11:15** - Break

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**11:30** - Session B: Hybrid Petri Nets (Room D-129 Informatics Campus)

Sabrina Proß, Sebastian Jan Janowski, Bernhard Bachmann, Christian Kaltschmidt, Barbara Kaltschmidt - *PNlib – A Modelica Library for Simulation of Biological Systems Based on Extended Hybrid Petri Nets*

Mostafa Herajy, Martin Schwarick - *A Hybrid Petri Net Model of the Eukaryotic Cell Cycle*

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**12:30** - Lunch

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**13:30** - Session C: Applications (Room D-129 Informatics Campus)

Nicholas Stoy, Sophie Chen, Andrzej Kierzek - *Studying prostate cancer as a network disease by qualitative computer simulation with Petri Nets*

Marta Ewa Polak - *Modelling Atopic Dermatitis using Petri Nets*

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**14:30** - Break

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**15:00** - Session D: Tools (Room D-129 Informatics Campus)

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Anja Hartmann, Hendrik Rohn, Kevin Pucknat, Falk Schreiber - *Petri-nets in VANTED: Simulation of Barley Seed Metabolism*

Mary Ann Blaetke, Wolfgang Marwan - *A Database-supported Modular Modelling Platform for Systems and Synthetic Biology*

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**16:00** - Closing Discussion

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**16:15** - Break

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**16:45** - Invited Talk (Room B-201 Informatics Campus):

Julia Padberg

*Reconfigurable Petri Nets: Modeling and Analysis*

**17:45** - End of talks

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