

08:30 Registration desk open

09:00- 09:10 Welcome

### Session 1

09:10- 10:10 **Invited Talk**

*Exploring transcription regulation through cell-to-cell variability*

Nir Friedman

10:10- 11:00 **Oral presentations**

*Identifying proteins involved in parasitism by discovering degenerated motifs*

Celine Vens, Etienne Danchin and Marie-Noelle Rosso

*High throughput network analysis*

Sumeet Agarwal, Gabriel Villar and Nick Jones.

11:00- 11:30 **Coffee break**

### Session 2

11:30- 12:30 **Invited Talk**

*Computational environments for modeling biochemical networks*

Ursula Kummer

12:30- 13:20 **Oral presentations**

*Equation Discovery for Whole-Body Metabolism Modelling*

Marvin Meeng, Arno Knobbe, Arne Koopman, Jan Bert van Klinken and Sjoerd van den Berg

*Parameter Estimation in an Endocytosis Model*

Katerina Taškova, Peter Korošec, Jurij Šilc, Ljupčo Todorovski and Sašo Džeroski

### Poster session A

13:20- 14:45 *Poster presentations with catered lunch*

### Session 3

14:45- 15:45 **Invited Talk**

*Deep sequencing and systems biology: steps on the way to an individualised treatment of cancer patients*

Hans Lehrach

15:45- 16:15 **Coffee break**

### Session 4

16:15- 17:30 **Oral presentations**

*Inferring Regulatory Networks from Expression Data using Tree- based Methods*

Vân Anh Huynh-Thu, Alexandre Irrthum, Louis Wehenkel and Pierre Geurts

*Inference in hierarchical transcriptional network motifs*

Andrea Ocone and Guido Sanguinetti

*On Learning Gene Regulatory Networks with Only Positive Examples*

Luigi Cerulo and Michele Ceccarelli

17:30- 18:00 Community meeting

19:30 Conference dinner

### Session 5

09:00- 10:00 **Invited Talk**

*Protein-protein network inference with regularized output and input kernel methods*  
Florence d'Alché Buc

10:00- 10:50 **Oral presentations**

*Collaboration-based Function Prediction in Protein-Protein Interaction networks*  
Hossein Rahmani, Hendrik Blockeel and Andreas Bender

*Prediction of DNA-Binding Proteins from Structural Features*  
Andrea Szabóová, Ondrej Kuzelka, Filip Zelezný and Jakub Tolar

10:50- 11:20 **Coffee break**

### Session 6

11:20- 12:20 **Invited Talk**

*Automatic quantification of subtle cellular phenotypes in microscopy-based high-throughput experiments*  
Vebjorn Ljosa

12:20- 13:10 **Oral presentations**

*On the stability and interpretability of prognosis signatures in breast Cancer*  
Anne-Claire Haury and Jean-Philippe Vert

*A fast algorithm for structured gene selection*  
Sofia Mosci, Silvia Villa, Alessandro Verri and Lorenzo Rosasco

### Poster session B

13:10- 14:15 *Poster presentations with catered lunch*

### Session 7

14:15- 15:05 **Oral presentations**

*Automated detection of chaotic and oscillatory regimes*  
Daniel Silk, Paul Kirk, Christopher Barnes and Michael Stumpf  
*A note on Inference for reaction kinetics with monomolecular reactions*  
Manfred Opper and Andreas Ruttor

15:05- 15:30 **Coffee break**

### Session 8

15:30- 16:20 **Oral presentations**

*Multilabel Prediction of Drug Activity*  
Hongyu Su, Markus Heinonen and Juho Rousu  
*An Integrated Generative and Discriminative Bayesian Model for Binary Classification*  
Keith Harris and Mark Girolami

16:20 Closing remarks