# GCB 2011 - German Conference on Bioinformatics 2011

## Weihenstephan

**September 7-9, 2011**

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## Preliminary Program

***Wednesday, September 7***

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| **08:00-** | **Registration** |
| **08:30-08:40** | **Opening GCB Junior Conference** |
| 08:40-09:00 | *J. Patrick Pett, Daniel H. Mehnert, Jonas Ibn-Salem, Ole Eigenbrod, Raik Otto, Stephan Knorr, Stina-Stephanie M. Richter and Roland Krause*<br>Identification of shared components of protein complexes |
| 09:00-09:20 | *Eva Vennmann, Nadine Schneider and Matthias Rarey*<br>Discrimination of permanent and transient heterodimers: The real challenge in the classification of protein-protein interactions |
| 09:20-09:40 | *Florian Erhard and Ralf Zimmer*<br>Detecting outlier peptides in quantitative High-Troughput mass spectrometry |
| 09:40-10:00 | *Thomas Hoffmann and Iris Antes*<br>Modeling the variable regions of T-Cell Receptors |
| 10:00-10:20 | *Manuel Andreas Glaser and Iris Antes*<br>Docking Peptides into MHC Class II Complexes |
| **10:20-10:50** | **Coffee Break** |
| 10:50-11:10 | *Sebastian Dümcke, Martin Seizl, Nicole Pirkl, Steffanie Etzold, Dietmar Martin and Achim Tresch*<br>One Hand Clapping: Detection of condition-specic Transcription Factor Interactions from genome-wide gene activity Data |
| 11:10-11:30 | *Matthias Böck, Constanze Schmitt and Stefan Kramer*<br>A Study of Dynamic Time Warping for the Inference of Gene Regulatory Relationships |
| 11:30-11:50 | *Robert Pesch and Ralf Zimmer*<br>To transfer or not to transfer - Complementing the eukaryotic protein-protein interactome |
| 11:50-12:10 | *Lukas Windhager, Jonas Zierer and Ralf Zimmer*<br>Module Extraction from Ensembles of Networks |
| 12:10-12:30 | *Alena Mysickova and Martin Vingron*<br>Detection of interacting transcription factors in human tissues using predicted DNA binding affinity |
| **12:30-13:30** | **Lunch** |
| 13:30-13:50 | *Huy Dinh, Ortrun Mittelsten Scheid and Arndt Von Haeseler*<br>MethColor: a computational approach to uncover DNA methylation heterogeneity |
| 13:50-14:10 | *Haroon Naeem, Ralf Zimmer and Robert Küffner*<br>Rigorous assessment of gene set enrichment tests |
| 14:10-14:30 | *Sabine Hug, Daniel Schmidl, Wei Bo Li, Matthias Greiter and Fabian J. Theis*<br>Bayesian Model Selection for Zirconium Processing in the Human Body after Ingestion |
| 14:30-15:50 | *Michael Schwarzfischer, Carsten Marr, Jan Krumsiek, Philipp S. Hoppe, Adam Filipczyk, Timm Schroeder and Fabian J. Theis*<br>Automated cell quantication allows inference of protein half-life from single cell time-lapse microscopy |
| 14:50-15:10 | *Martin Preusse, Andreas Kowarsch, Carsten Marr and Fabian J. Theis*<br>miTALOS: Analyzing the tissue-specific regulation of signaling pathways by human and mouse microRNAs |
| 15:10-15:30 | *Andre Dau and Johannes Krugel*<br>tt-analyze and tt-generate: Tools to Analyze and Generate Sequences with Trained Statistical Properties |
| **15:30-16:00** | **Coffee Break** |
| **16:00-** | **Welcome Address**<br>**Opening Event GCB 2011: 10 Years Bioinformatics Munich (BIM)**<br>**Opening Lecture: Pavel Pevzner (UC San Diego): De Novo Sequencing of Antibiotics: Metabolomics Meets Graph Theory** |
| **19:00-** | **Welcome Reception** |

***Thursday, September 8***

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| 08:30-09:15 | *Matthias Mann (MPI Biochemistry, Martinsried)* |