

Scientific Program (2015-09-09)

Thursday, September 10th 2015

12:30-12:45 Workshop Opening, Welcome

Session 1: Dynamical modelling (12:45-14.50, chairs Glauche / Scholz)

12:45-13:35 Keynote: Thilo Figge (Spatio-temporal modeling of infection by human-pathogenic fungi)

13:35-14.00 Xin Lai (Mechanistic modelling of the communication between alveolar macrophages and epithelial cells during Legionella pneumophila infection)

14.00-14.25 Markus Scholz (Modelling lymphoma therapy and immune response)

14.25-14.50 Ingmar Glauche (Heterogeneity and cell fate control in mouse embryonic stem cells)

15.00-16.30 Coffee break + Poster session

Session 2: Open topics (16:30-18:35, chairs Glauche / Scholz)

16:30-17:20 Keynote: Markus Löffler (Stem cell models in the crypt)

17:20-17:45 Jens Przybilla (Modelling epigenetic control of HSC lineage specification)

17:45-18:10 Konstantin Thierbach (The developing endoderm in the zebrafish embryo)

18:10-18:35 Shenghui Cheng (Visual Analytics for Relations in High Dimensional Data Spaces)

19:30 Social Event Ratskeller Leipzig
Scientific Round Table Discussions and Visit of Town Hall

Friday, September 11th 2015

Session 3: Bioinformatics: Systemsbiology (8:30-10:35, chairs Fröhlich / Scholz)

- 8:30-9:20 Keynote: Sach Mukherjee (tba)
- 9:20-9:45 Astrid Wachter (Pathway-based integration of time-series omics data using public database knowledge)
- 9:45-10:10 Holger Fröhlich (Probabilistic Models for Biological High Throughput Data)
- 10:10-10:35 Alicia Poplawski (Systematically evaluating interfaces for RNA-seq analysis from a life scientist perspective)
- 10:35-10:50 Election of speakers of AG Modelling and AG Bioinformatics
- 10:50-11:30 Coffee break

Session 4: Bioinformatics: Medical application (11:30-13:35, chairs Fröhlich / Scholz)

- 11:30-12:20 Keynote: Yves Moreau (Variant prioritization by genomic data fusion)
- 12:20-12:45 Holger Kirsten (Genome-wide eQTL analysis)
- 12:45-13:10 Arnd Gross (Hierarchical Modelling)
- 13:10-13:35 Jens Meiler (Long Antibody HCDR3s from HIV-Naïve Donors Mediate HIV Neutralization)
- 13:45 Closing