



SBMC
2024

9th Conference
on Systems Biology
of Mammalian Cells

Translating Systems Medicine into the Clinics

13 - 15 May 2024 | Leipzig, Paulinum | www.lisym-cancer.org/sbmc2024

Program

Monday, 13 May 2024



13:00 Welcome

1. Prof. Dr. Thomas Berg (Chair, Leipzig University, Director of the Clinic of Gastroenterology at the University Hospital, Leipzig)
2. Prof. Dr. Veronika von Messling (BMBF, Abteilungsleiterin Lebenswissenschaften)
3. Leipzig University (tba)
4. Prof. Dr. Beat Müllhaupt (Program Director LiSyM-Cancer, Head of Hepatology at the University Hospital Zurich)



13:30 Keynote Lecture by Fabian Theis (Helmholtz Munich, Munich, DE):

"Modeling single-cell state and dynamics"



14:30 MTZ Award

Greeting by Monika and Thomas Zimmermann

Talks by Awardees

Flower ceremony



15:30 Coffee break

Session 1: From single cell analysis to clinical application



16:00 Leo van Grunsven (Vrije Universiteit Brussel, Brussels, BE)



16:30 Bjørn Tore Gjertsen (University of Bergen, Bergen, UK)



17:00 Fabian Coscia (Max Delbrück Center for Molecular Medicine, Berlin, DE)



17:30 Ayaka Ichikawa (Osaka University, Osaka, JP)



17:45 Zixin Huang (Technical University Darmstadt, Darmstadt, DE)









18:00 Poster session & Reception










19:30 Speakers' Dinner

Tuesday, 14 May 2024

Session 2: Mechanistic modeling at the cellular scale

-  9:00 Walter Kolch (University College Dublin, Dublin, IE)
-  9:30 Jana Wolf (Max Delbrück Center for Molecular Medicine, Berlin, DE)
-  10:00 Dennis Vitkup (Columbia University Data Science Institute, New York, US)
-  10:30 Elisa Holstein (German Cancer Research Center, Heidelberg, DE) and Severin Bang (University of Freiburg, Freiburg, DE)
-  10:45 David Liaskos (École Polytechnique Fédérale de Lausanne, Lausanne, CH)
-  11:00 Coffee break

Session 3: Tissue scale modeling and organ communication

-  11:30 Thilo Figge (Leibniz Institute for Natural Product Research and Infection Biology - Hans Knöll Institute, Jena, DE)
-  12:00 Fabian Fröhlich (The Francis Crick Institute, London, GB)
-  12:30 Lunch
-  13:00 Poster session
-  14:00 James Glazier (Indiana University Bloomington, Bloomington, US)
-  14:30 Danish Anwer (Chalmers Technical University, Gothenburg, SE)
-  14:45 Christine Wiggins (Massachusetts Institute of Technology, USA, Cambridge, US)

Session 4: AI contributions to systems medicine

-  15:00 Ivo Sbalzarini (Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, DE)
-  15:30 Hamid Bouchachia (Bournemouth University, Bournemouth, UK)
-  16:00 Coffee break
-  16:30 Georg Langs (Medical University of Vienna, Vienna, AUT)
-  17:00 Lena Molitor (Weizmann Institute of Science, Rehovot, IL)
-  17:15 Nico Kaiser (University Medical Center Hamburg-Eppendorf, Hamburg, DE)
-  17:30 **Interactive Session: Successful implementation of Systems Biology**
Ursula Klingmüller (German Cancer Research Center, Heidelberg, DE)
Jens Timmer (University of Freiburg, Freiburg, DE)
Sophia Müller-Dott (Institute for Computational Biomedicine, Heidelberg, DE)
Chenhao Tong (University of Heidelberg, Mannheim, DE)
Stefan Höhme (Leipzig University, Leipzig, DE)
Sebastian Burbano de Lara (German Cancer Research Center, Heidelberg, DE)
Lorenz Adlung (University Medical Center Hamburg-Eppendorf, Hamburg, DE)
-  19:00 Networking event

Wednesday, 15 May 2024



9:00 Keynote Lecture by Ron Heeren (Maastricht University, Maastricht, NL):
“Spatial biology and systems medicine in the liver and beyond”

Session 5: The Future of Systems Biology



10:00 Natal van Riel (Eindhoven University of Technology, Eindhoven, NL)



10:30 Andreas Raue (Novartis Institutes for BioMedical Research, Cambridge, US)



11:00 Liesbet Geris (University of Liège, Liège, BE)



11:30 Coffee break



12:00 **Panel discussion: Requirements for systems biology to be translated into the clinic**

Ulla Ohlms (Patients' Tumor Bank of Hope, München, DE),
Maria Polychronidou (Molecular Systems Biology, EMBO, Heidelberg, DE),
Stephen Gilbert (Technical University Dresden, Dresden, DE),
Andreas Raue (Novartis Institutes for BioMedical Research, Cambridge, US),
Thomas Berg (Leipzig University, Leipzig, DE),
Ursula Klingmüller (German Cancer Research Center (DKFZ), Heidelberg, DE)



13:00 Closing remarks & Poster Awards

More details and updates: www.lisym-cancer.org/sbmc2024



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List of speakers



Hamid Bouchachia - Bournemouth, UK Bournemouth University



Fabian Coscia - Berlin, DE Max Delbrück Center for Molecular Medicine



Thilo Figge - Jena, DE Leibniz Institute for Natural Product Research and Infection Biology - Hans Knöll Institute



Fabian Fröhlich - London, GB The Francis Crick Institute



Liesbet Geris - Liège, BE University of Liège



Bjørn Tore Gjertsen - Bergen, UK University of Bergen



James Glazier - Bloomington, US Indiana University Bloomington



Ron Heeren - Maastricht, NL Maastricht University



Walter Kolch - Dublin, IE University College Dublin



Georg Langs - Vienna, AUT Medical University of Vienna



Andreas Raue - Cambridge, US Novartis Institutes for BioMedical Research



Ivo Sbalzarini - Dresden, DE Max Planck Institute of Molecular Cell Biology and Genetics



Fabian Theis - München, DE Helmholtz Munich



Dennis Vitkup - New York, US Columbia University Data Science Institute



Jana Wolf - Berlin, DE Max Delbrück Center for Molecular Medicine



Leo van Grunsven - Brussels, BE Vrije Universiteit Brussel



Natal van Riel - Eindhoven, NL Eindhoven University of Technology

Panel Discussion Participants



Thomas Berg - Leipzig, DE Leipzig University



Stephen Gilbert - Dresden, DE Technical University Dresden



Ursula Klingmüller - Heidelberg, DE German Cancer Research Center (DKFZ)



Ulla Ohlms - München, DE Patients' Tumor Bank of Hope



Maria Polychronidou - Heidelberg, DE Molecular Systems Biology, EMBO



Andreas Raue - Cambridge, US Novartis Institutes for BioMedical Research