



Max-Planck-Institut
für molekulare Genetik



HealthCapital
BERLIN BRANDENBURG

15th Current Topics in Bioinformatics

Can we predict outcome?

May 20 2019, 2 - 6.30 p.m. (networking until 8 p.m.)

Max-Delbrück-Centrum für Molekulare Medizin | BIMSB, Hannoversche Str. 28, 10115 Berlin-Mitte Germany

Today, “omics” data for healthy and disease conditions are being generated at an unprecedented speed. At the same time, health data of individuals are collected, together with the possibility to cheaply generate genomic sequence. Research describes the relationship between patterns in the data and therapeutic success. This nourishes our expectation that predicting response to treatment (semi-)automatically from data collected will become an integral part of routine medicine. For example, precision medicine aims at selecting drugs optimized for individuals, or cancer genomics characterizes tumors to a degree fine enough to design individual therapies.

The question of predictability of a patient’s response to a treatment is at the heart of the current debate about a data-based medicine. In this year’s workshop “Current Topics in Bioinformatics” we will ask the question “How can we best predict outcome?” for different systems and based on different computational technologies.

Participation is free of charge.

Call for posters

Are you a young researcher doing interesting R&D in bioinformatics and want to present it?

Use the opportunity to present your poster at the poster session. Posters will be presented during the whole conference.

Interested? Then bring your poster to the conference.

For any questions please contact: susann.kleinsimon@berlin-partner.de

About Current Topics in Bioinformatics

“Current Topics in Bioinformatics” is an annual symposium bringing together the local actors in Bioinformatics from academia and industry in the Berlin-Brandenburg region. The series was founded in 2003 by the Max Planck Institute for Molecular Genetics (MPIMG) together with the Healthcare Industries Cluster from HealthCapital Berlin-Brandenburg. In 2017, a Steering Committee including Bayer, SAP, the Max Planck Institute for Molecular Genetics, Berlin and the Max Delbrück Center for Molecular Medicine (MDC) has been established to further advance the series and establish it as the annual meeting of Bioinformaticians in the Berlin-Brandenburg region.

Agenda

Chair: Prof. Dr. Uwe Ohler, Max Delbrück Center for Molecular Medicine, Berlin

2 p.m.	Welcome Address Steering Committee Prof. Dr. Martin Vingron, Max Planck Institute for Molecular Genetics, Berlin
2:10 p.m.	Welcome Address Cluster HealthCapital Dr. Susann Kleinsimon, Berlin Partner for Business and Technology
2:15 p.m.	Machine Learning for Biomarker Discovery in Clinical Time Series Prof. Dr. Karsten Borgwardt, ETH Zürich, Switzerland
2:45 p.m.	How Cell Simulation Can Help Precision Oncology Judit Kisistók, Turbine, Hungary
3:15 p.m.	Poster-Pitches 10-12, 3 min each
4:00 p.m.	Coffee Break and Poster Session
4:45 p.m.	Disease Predictions from Metagenomes Dr. Sofia Forslund, Max Delbrück Center for Molecular Medicine and Experimental and Clinical Research Center, Berlin
5:15 p.m.	How Do We Detect Disease Patterns in Images and Molecular Data? Prof. Dr. Christoph Lippert, Hasso-Plattner-Institut, Potsdam
5:45 p.m.	Predicting the Efficacy of a Candidate Drug Using Genetic Data - Vericiguat as a Case Example Dr. Florian Sohler, Bayer AG, Berlin
6:15 p.m.	Closing Remarks Dr. Bertram Weiss, Bayer AG, Berlin
6:30 p.m.	Networking
8 p.m.	End of Event

For further information please contact Dr. Susann Kleinsimon

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Steering Committee of Current Topics in Bioinformatics

Prof. Dr. Uwe Ohler, Max Delbrück Center for Molecular Medicine, Berlin

Prof. Dr. Martin Vingron, Max Planck Institute for Molecular Genetics, Berlin

Dr. Bertram Weiss, Bayer AG