

ALL-SYSTEMSX.CH-DAY

November 18, 2009

University of Bern, Inselspital
Kinderklinik Ground Floor - Auditorium Ettore Rossi



SystemsX.ch
The Swiss Initiative in Systems Biology

PROGRAMME

- × 09.15 - 09.20 **Welcome address**
Prof. Urs Würigler, University of Bern
- × 09.20 - 09.30 **Current Status of SystemsX.ch**
Prof. Ruedi Aebersold, Dr. Daniel Vonder Mühl
- × 09.30 - 09.55 **IPP 2008 Presentations**
- × 09.55 - 10.10 **Overview on modelling in Systems Biology**
Prof. Jörg Stelling, ETH Zurich (DBSSE)
- × 10.10 - 10.25 **Encoding positional information in the Drosophila wing with fluctuating gradients**
Prof. Felix Naef, EPF Lausanne
- × 10.25 - 10.45 **Coffee Break and Poster Viewing**
- × 10.45 - 11.00 **Evolutionary modeling of multicellular biological systems**
Prof. Nico Beerenwinkel, ETH Zurich (DBSSE)
- × 11.00 - 11.15 **Measuring and modeling precision and scaling of morphogen gradients**
Prof. Sven Bergmann, University of Lausanne
- × 11.15 - 11.30 **Systems engineering approaches for the analysis and design of metabolic networks**
Prof. Vassily Hatzimanikatis, EPF Lausanne
- × 11.30 - 11.45 **Dynamic Causal Modeling of neuronal networks**
Prof. Klaas Enno Stephan, University of Zurich
- × 11.45 - 12.00 **«Where to go with modelling in Systems Biology?»**
Discussion with ALL plus case study panel
- × 12.00 - 13.30 **Lunch Break and Poster Viewing**
- × 13.30 - 14.15 **The Blue Brain project**
Prof. Henry Markram, EPF Lausanne
- × 14.15 - 14.30 **IT Solutions for Systems Biology Research**
Dr. Peter Kunszt, SystemsX.ch/SyBIT
- × 14.30 - 14.45 **BattleX**
Prof. Dirk Bumann, University of Basel
- × 14.45 - 15.00 **InfectX**
Prof. Christoph Dehio, University of Basel
- × 15.00 - 15.30 **Coffee Break and Poster Viewing**
- × 15.30 - 15.45 **Cellular Imaging and Nanoanalytics**
Prof. Andreas Engel and Prof. Henning Stahlberg, University of Basel
- × 15.45 - 16.00 **Cell Plasticity**
Prof. Susan Gasser, Friedrich Miescher Institute
- × 16.00 - 16.15 **CycliX**
Prof. Nouria Hernandez, University of Lausanne
- × 16.15 - 16.30 **MetaNetX**
Prof. Jörg Stelling, ETH Zuerich
- × 16.30 - 16.45 **Young Researchers' Poster Prize Award**
Prof. Urs Würigler, University of Bern
- × 16.45 - 17.00 **Conclusions and Closing Remarks**
Prof. Ruedi Aebersold, Dr. Daniel Vonder Mühl
- × 17.30 - 18.15 **Apéro & Welcome address**
- × 18.15 - 21.30 **Dinner** (registration online: CHF 50/ CH 25 students)



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SYBIT COMMUNITY MEETINGS (Taking place in parallel sessions to the main programme)

Discussion on Tools, Standards and Policies with SyBIT

Organizer: Peter Kunszt and Ela Hunt (SyBIT)

Purpose: The SyBIT Community meetings have been initiated by SyBIT in order to start the focussed communication on such coordination issues within SystemsX.ch.

Target Audience: Resource providers and experts using various platforms and interested in working together with SyBIT.

PROGRAMME - SyBIT Community meetings

Location: Kursraum 2

✕ 13.30 - 14.15 **Screening Community Meeting**

1. Introduction and Purpose of Meeting
2. iBRAIN demo
3. High Content Screening Data Management
4. LipidX new developments
5. A web-based sample screening framework
6. Discussion, identification of new requirements

Ela Hunt/ Peter Kunszt, SyBIT
Berend Snijder, Zurich
Gábor Csúcs, Zurich
Nicolas Guex, Lausanne
Jacques Rougemont, Lausanne
All

✕ 14.15 - 15.00 **Genomics Community Meeting**

1. Introduction and Purpose of Meeting
2. Deep Sequencing Pipeline Demo
3. LIMS system for Core Facilities generating UHTS Illumina data
4. Visualisation of Deep Sequencing Data & Pipeline Overview
5. Deep Sequencing Pipeline Demo
6. Microarray and Sequence Data Management
7. FMIs Deep Sequencing Pipeline
8. Discussion, identification of new requirements

Ela Hunt, SyBIT
Mihaela Zavolan/PhD student, Basel
Sylvain Pradervent, Lausanne
Jacques Rougemont, Lausanne
Manuel Kohler, Basel
Hubert Rehrauer, Zurich
Hans-Rudolf Hotz, FMI Basel
All

✕ 15.00 - 15.30 **Coffee Break and Poster Viewing**

✕ 15.30 - 16.15 **Proteomics Community Meeting**

1. Introduction and Purpose of Meeting
2. Proteomics Pipeline
3. New Developments in MS Support
4. openBIS Implementation for Proteomics
5. Data maturation along the proteomics work chain
6. Discussion, identification of new requirements

Ela Hunt/ Peter Kunszt, SyBIT
Lars Malmström, Zurich
Frederique Lisacek, SIB
Franz-Josef Elmer, Basel
Christian Panse/Jonas Grossmann, Zurich
All

✕ 16.15 - 16.45 **Computational Biology Community Meeting**

The meeting will be open to all interested parties and moderated by Ela Hunt and Peter Kunszt

