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# SystemsX.ch

## Project Overview



# At a glance: All SystemsX.ch Projects

SystemsX.ch supports three types of projects, which clearly differ in scope, length and objectives. On the present fact sheet, which comes annexed to the brochure, you will find an updated overview of all ongoing projects.

**Research, Technology and Development Projects (RTD Projects)** are the beacon projects of SystemsX.ch. These projects are high-ranked research programs involving the collaborative participation of six to twelve or more research groups from different disciplines. The total budget for an RTD lies between six and 20 million Swiss francs for a four-year period.

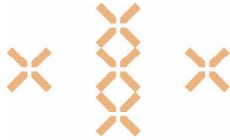
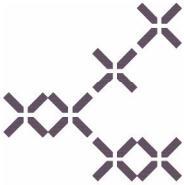


**Interdisciplinary Doctoral Studies (IPhD)** and **Interdisciplinary Pilot Projects (IPP)** are explained further in this sheet.

The **SystemsX.ch Biology IT project (SyBIT)** has been initiated by SystemsX.ch to assure that the data produced by all projects is well documented and made gradually available to the research community for further use. SyBIT will supply tools and infrastructure for data management, data analysis and archiving for all SystemsX.ch projects. It will develop and promote standard interfaces for data access and establish processes and policies for quality and knowledge management. SyBIT cooperates with all SystemsX.ch partner institutions and their infrastructure providers.



**SystemsX.ch**  
The Swiss Initiative in Systems Biology

# Research, Technology and Development Projects

<p><b>Principal Investigator</b></p> <p><b>Partners</b></p> <p><b>Technologies</b></p> <p><b>Additional Technologies and Scientific Fields</b></p> <p><b>Approved</b></p>	 <p><b>BattleX</b> Manipulating the Fight between Human Host Cells and Intracellular Pathogens</p> <p><b>Prof. Dirk Bumann</b> Biozentrum, University of Basel Focal Area Infection Biology +41 (0) 61 267 23 82 dirk.bumann@unibas.ch</p> <p>UBas, EPFL, ETHZ, UZH, SIB, UC San Diego</p> <ul style="list-style-type: none"> <li>■ Proteomics</li> <li>■ Computer Sciences</li> <li>■ Mathematics and Modeling</li> <li>■ Imaging</li> </ul> <p>Flow Cytometry, Metabolomics, Chemical Genomics</p> <p>2009</p>	 <p><b>Cell Plasticity</b> Systems Biology of Cell Differentiation</p> <p><b>Prof. Susan Gasser</b> Friedrich Miescher Institute for Biomedical Research +41 (0) 61 697 50 25 susan.gasser@fmi.ch</p> <p>FMI, UBas</p> <ul style="list-style-type: none"> <li>■ Functional genomics</li> <li>■ Computer Sciences</li> <li>■ Mathematics and Modeling</li> <li>■ Cell Biology</li> </ul> <p>Epigenetics, stem cell differentiation, transcriptional regulation, cell transformation</p> <p>2009</p>
<p><b>Principal Investigator</b></p> <p><b>Partners</b></p> <p><b>Technologies</b></p> <p><b>Additional Technologies and Scientific Fields</b></p> <p><b>Approved</b></p>	 <p><b>LiverX</b> Systems Biology of Hepatic Insulin Resistance</p> <p><b>Prof. Wilhelm Krek</b> Institute of Cell Biology ETH Zurich +41 (0) 44 633 34 47 wilhelm.krek@cell.biol.ethz.ch</p> <p>ETHZ, UZH, UBas, SIB</p> <ul style="list-style-type: none"> <li>■ Genomics</li> <li>■ Proteomics</li> <li>■ Imaging</li> </ul> <p>Engineering, microfluidics, single cell analysis, RNAi, metabolomics, diabetes</p> <p>2008</p>	 <p><b>MetaNetX</b> Automated Model Construction and Genome Annotation for Large-Scale Metabolic Networks</p> <p><b>Prof. Jörg Stelling</b> Department of Biosystems Science and Engineering ETH Zurich +41 (61) 387 31 94 joerg.stelling@bsse.ethz.ch</p> <p>ETHZ, EPFL, SIB</p> <ul style="list-style-type: none"> <li>■ Metabolomics</li> <li>■ Computational biochemistry</li> <li>■ Metabolic networks</li> <li>■ Model generation</li> </ul> <p>Protein engineering, proteomics molecular networks</p> <p>2009</p>



**CINA**  
Cellular Imaging  
and Nanoanalytics

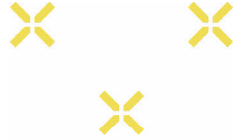
**Prof. Andreas Engel**  
**Prof. Henning Stahlberg**  
Biozentrum, University of Basel  
+41(0) 61 387 32 17  
andreas.engel@unibas.ch  
henning.stahlberg@unibas.ch

UBas, ETHZ, EPFL

- Proteomics
- Computer Sciences
- Mathematics and Modeling
- Imaging

Electron tomography,  
3D electron microscopy,  
STEM, atomic force  
microscopy, microfluidics

2009



**CycliX**  
Transcription  
Regulatory Networks  
of three Interacting Cycles

**Prof. Nouria Hernandez**  
Center for Integrative Genomics  
University of Lausanne  
+41 (0)21 692 39 21  
nouria.hernandez@unil.ch

Unil, EPFL, UGE, SIB

- Functional genomics
- Computer Sciences
- Mathematics and Modeling

Genomics, ChIP-Seq, gene  
regulation, circadian cycle, cell  
division cycle, nutrient-response  
cycle

2009



**Dynamix**  
Yeast Protein  
Network Dynamics

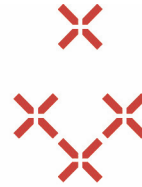
**Prof. Sebastian Maerkl**  
Laboratory of Biological  
Network Characterization  
EPF Lausanne  
+41 (0) 21 693 78 35  
sebastian.maerkl@epfl.ch

EPFL, UGE, SIB

- Proteomics
- Computer Sciences
- Mathematics and Modeling
- Imaging

Microfluidics, large-scale single  
cell imaging, synthetic biology,  
bioengineering, ribosome bioge-  
nesis, transcriptional regulation

2008



**InfectX**  
Systems Biology  
of Pathogen  
Entry into Human Cells

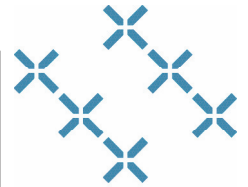
**Prof. Christoph Dehio**  
Biozentrum, University of Basel  
Focal Area Infection Biology  
+41 (0) 61 267 21 40  
christoph.dehio@unibas.ch

UBas, ETHZ, UZH

- Proteomics
- Computer Sciences
- Mathematics and Modeling
- Imaging

High-content microscopy, RNAi  
screens, signalling networks,  
infectomics, bacterial  
and viral entry mechanisms

2009



**LipidX**  
Systems Biology of  
Biomembranes

**Prof. Gisou van der Goot**  
Global Health Institute  
EPF Lausanne  
+41 (0) 21 693 17 91  
gisou.vandergoot@epfl.ch

EPFL, UGE, ETHZ, Unil, UZH

- Proteomics
- Computer Sciences
- Mathematics and Modeling

Lipidomics, cell signalling  
and trafficking,  
metabolomics, development

2008



**Neurochoice**  
Neural Correlates of  
Collective Decision Making

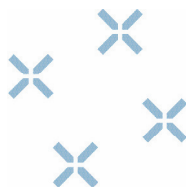
**Prof. Fritjof Helmchen**  
Brain Research Institute  
University of Zurich  
+41 (0) 44 635 33 40  
helmchen@hifo.uzh.ch

UZH, UBE, EPFL, UGE

- Computer Sciences
- Mathematics and Modeling
- Imaging

Optics, neurobiology,  
neuroeconomics

2008



**PhosphoNetX**  
Phosphorylation-Modulated  
Networks of the Cell

**Prof. Ruedi Aebersold**  
Institute of Molecular Systems  
Biology, ETH Zurich  
+41 (0) 44 633 31 70  
aebersold@imsb.biol.ethz.ch

ETHZ, UZH

- Proteomics
- Computer Sciences
- Mathematics and Modeling
- Imaging

Protein engineering, molecular  
networks

2008



**Plant Growth**  
in a Changing  
Environment

**Prof. Cris Kuhlemeier**  
Institute of Plant Sciences  
University of Bern  
+41 (0) 31 631 49 13  
cris.kuhlemeier@ips.unibe.ch

UBE, UZH, UFR, ETHZ, UZH,  
UNE, EPFL, UGE, Unil, UBAs,  
SIB

- Biomechanics
- Computer Sciences
- Mathematics and Modeling
- Imaging

Engineering, genomics,  
metabolomics

2008



**WingX**  
Systems Biology  
of the Drosophila Wing

**Prof. Ernst Hafen**  
Institute of Molecular Systems  
Biology, ETH Zurich  
+41 (0) 44 633 36 88  
hafen@imsb.biol.ethz.ch

ETHZ, UZH, UBAs, EPFL,  
Unil, SIB

- Proteomics
- Computer Sciences
- Mathematics and Modeling
- Imaging

Developmental biology

2008



**YeastX**  
Towards an Understanding  
of Nutrient Signaling  
and Metabolic Operation

**Prof. Uwe Sauer**  
Institute of Molecular Systems  
Biology, ETH Zurich  
+41 (0) 44 633 36 72  
sauer@imsb.biol.ethz.ch

ETHZ, UBAs, UZH, SIB

- Metabolomics
- Computer Sciences
- Mathematics
- Physiology

Signal transduction, yeast  
regulation and metabolic  
networks

2008

# Interdisciplinary PhD Projects

The Interdisciplinary PhD Projects (IPhD) of SystemsX.ch help researchers on their way to becoming the first generation of specially educated Systems Biologists. The students are supervised by mentors specialized in different disciplines.

Note: 2008 projects are presented in alphabetical order of student's surnames. The list of students selected for 2009 projects was still outstanding at the time of publication.

**Systems Biology on ecosystems: exploring the mechanism of synchronized flowering by integrating molecular and modeling approaches**

PhD Student  
**Joseph Benesh**  
University of Zurich

Mentors  
**Prof. Kentaro Shimizu**  
Institute of Plant Biology  
University of Zurich

**Prof. Andreas Wagner**  
Department of Biochemistry  
University of Zurich

**Decoding the mechanisms of gait generation and gait transition in salamander: a Systems Biology approach**

PhD Student  
**Andrej Bicanski**  
EPF Lausanne

Mentors  
**Prof. Auke Ijspeert**  
School of Computer and  
Communication Sciences  
EPF Lausanne

**Dr. Thierry Wannier**  
Department of Medicine  
University of Fribourg

**From single cells to single pores: Mathematical modeling and experimental testing of ionic imbalances induced by pore formation of bacterial toxins**

PhD Student  
**Mirko Bischofberger**  
EPF Lausanne

Mentors  
**Prof. Felix Naef**  
ISREC – Swiss Institute for  
Experimental Cancer Research  
EPF Lausanne

**Prof. Gisou van der Goot**  
Global Health Institute  
EPF Lausanne

**Mechanisms of single cell injury repair in migrating cells**

PhD Student  
**Chiara Gabella**  
EPF Lausanne

Mentors  
**Prof. Alexander Verkhovsky**  
Laboratory of Cell Biophysics  
EPF Lausanne

**Prof. Ivo Sbalzarini**  
Institute of Theoretical  
Computer Science  
ETH Zurich

**Analysis and classification of conserved DNA elements through whole-genome multiple alignment**

PhD Student  
**Cristine Ghiurcuta**  
EPF Lausanne

Mentors  
**Prof. Bernhard Moret**  
School of Computer and  
Communication Sciences  
EPF Lausanne

**Prof. Philipp Bucher**  
ISREC - Swiss Institute for  
Experimental Cancer Research  
EPF Lausanne

**Computational, chemical, and biological characterization of ultraconserved elements in plants**

PhD Student  
**Stefan Grob**  
University of Zurich

Mentors  
**Prof. Ueli Grossniklaus**  
Institute of Plant Biology  
University of Zurich

**Dr. Thomas Wicker**  
Institute of Plant Biology  
University of Zurich

**Quantifying robustness of biochemical modules to parametric and structural perturbations**

PhD Student  
**Marc Hafner**  
EPF Lausanne

Mentors  
**Prof. Martin Hasler**  
School of Computer and  
Communication Sciences  
EPF Lausanne

**Prof. Andreas Wagner**  
Department of Biochemistry  
University of Zurich

**Rule-based models for signal transduction, the HOG MAPK Pathway - a case study**

PhD Student  
**Kamran Kalbasi**  
EPF Lausanne

Mentors  
**Prof. Thomas Henzinger**  
School of Computer and  
Communication Sciences  
EPF Lausanne

**Prof. Matthias Peter**  
Institute of Biochemistry  
ETH Zurich

**Metabolic network in Mycobacterium tuberculosis**

PhD Student  
**Emre Oezdemir**  
EPF Lausanne

Mentors  
**Prof. John McKinney**  
Global Health Institute  
EPF Lausanne

**Prof. Vassily Hatzimanikatis**  
Institute of Chemical Sciences  
and Engineering  
EPF Lausanne

**Single molecule study of transcription using nanopore based force spectroscopy**

PhD Student  
**Camille Raillon**  
ETH Zurich

Mentors  
**Prof. Aleksandra Radenovic**  
Institute of Bioengineering  
EPF Lausanne

**Prof. Nouria Hernandez**  
Center for Integrative Genomics  
University of Lausanne

**Analysis and simulation of the physical rules of lumen formation in organogenesis**

PhD Student  
**Rajesh Ramaswamy**  
ETH Zurich

Mentors  
**Dr. Ruth Kroschewski**  
Institute of Biochemistry  
ETH Zurich

**Prof. Ivo Sbalzarini**  
Institute of Theoretical Computer  
Science  
ETH Zurich

**Behavioral and computational mechanisms of self-localization and path integration in humans**

PhD Student  
**Danilo Jimenez Rezende**  
EPF Lausanne

Mentors  
**Prof. Olaf Blanke**  
Laboratory of Cognitive  
Neuroscience  
EPF Lausanne

**Prof. Wulfram Gerstner**  
Laboratory of Computational  
Neuroscience  
EPF Lausanne

**Development of a gene-centered proteomics platform for the systematic identification of DNA-binding proteins or complexes**

PhD Student  
**Jovan Simicevic**  
EPF Lausanne

Mentors  
**Prof. Bart Deplancke**  
Institute of Bioengineering  
EPF Lausanne

**Dr. Frederique Lisacek**  
Proteome Informatics Group  
Swiss Institute of Bioinformatics

**Integrated regulatory map of the genome of Mycobacterium tuberculosis**

PhD Student  
**Swapna Uplekar**  
EPF Lausanne

Mentors  
**Prof. Stewart Cole**  
Global Health Institute  
EPF Lausanne

**Dr. Jacques Rougemont**  
Bioinformatics and  
Biostatistics Core Facility  
EPF Lausanne

**Quantitative investigation of cancer cell metabolism by novel 13C flux analysis methods and metabolomics**

PhD Student  
**Dan Zheng**  
ETH Zurich

Mentors  
**Dr. Nicola Zamboni**  
Institute of Molecular  
Systems Biology  
ETH Zurich

**Prof. Wilhelm Krek**  
Institute of Cell Biology  
ETH Zurich

**A system's level analysis of the spatio-temporal regulation of signaling during polarized cell migration**

PhD Student  
**to be announced**

Mentors  
**Prof. Dagmar Iber**  
Department of Biosystems  
Science and Engineering  
ETH Zurich

**Prof. Olivier Pertz**  
Institute of Biochemistry and  
Genetics  
University of Basel

**An integrative approach to study adipocyte extracellular signaling events linked to the development of metabolic disorders**

PhD Student  
**to be announced**

Mentors  
**Prof. Christian Wolfrum**  
Institute of Molecular  
Systems Biology  
ETH Zurich

**Dr. Bernd Wollscheid**  
Institute of Molecular  
Systems Biology  
ETH Zurich

**Developing and testing a mathematical model for cell specification in the embryo sac of Arabidopsis thaliana**

PhD Student  
**to be announced**

Mentors  
**Prof. Ueli Grossniklaus**  
Institute of Plant Biology  
University of Zurich

**Dr. Barbara Hellriegel**  
Anthropological Institute and  
Museum  
University of Zurich

**Dr. Bruno Müller**  
Institute of Plant Biology  
University of Zurich

**Genetic and epigenetic diversity of tumors: A combined deep sequencing and mathematical modeling approach to the somatic evolution of cancer**

PhD Student  
**to be announced**

Mentors  
**Prof. Niko Beerenwinkel**  
Department of Biosystems  
Science and Engineering  
ETH Zurich

**Dr. Christian Beisel**  
Department of Biosystems  
Science and Engineering  
ETH Zurich

**Prof. Holger Moch**  
Institute of Clinical Pathology  
University of Zurich

**Genome-wide prediction of coactivator-controlled transcriptional networks using data from ultrahigh-throughput sequencing technologies**

PhD Student  
**to be announced**

Mentors  
**Prof. Christoph Handschin**  
Biozentrum  
University of Basel

**Prof. Eric van Nimwegen**  
Biozentrum  
University of Basel

**Genomic analysis of information transfer along the DNA by transcriptional interference**

PhD Student  
**to be announced**

Mentors  
**Prof. Attila Becskei**  
Institute of Molecular Biology  
University of Zurich

**Prof. Erwin Bolthausen**  
Institute of Mathematics  
University of Zurich

**Genomic and physical constraints that regulate cellular shape**

PhD Student  
**to be announced**

Mentors  
**Dr. Rafael Carazo Salas**  
Department of Biology  
ETH Zurich

**Prof. Gabor Székely**  
Department of Information  
Technology and  
Electrical Engineering  
ETH Zurich

**Microelectronics and genetics to study retinal neuronal circuit dynamics**

PhD Student  
**to be announced**

Mentors  
**Prof. Andreas Hierlemann**  
Department of Biosystems  
Science and Engineering  
ETH Zurich

**Dr. Botond Rosta**  
Friedrich Miescher Institute  
for Biomedical Research

**Predicting functional redundancy in protein networks**

PhD Student  
**to be announced**

Mentors  
**Prof. Niko Beerenwinkel**  
Department of Biosystems  
Science and Engineering  
ETH Zurich

**Dr. Gunter Mendes**  
Department of Biosystems  
Science and Engineering  
ETH Zurich

**Proteomic analyses of post-translational modifications**

PhD Student  
**to be announced**

Mentors  
**Prof. Isabelle Mansuy**  
Department of Biology  
ETH Zurich

**Prof. Ivo Sbalzarini**  
Institute of Theoretical Computer  
Science  
ETH Zurich

**Quantitative analysis and mathematical modeling of polarity establishment in C.elegans embryos**

PhD Student  
**to be announced**

Mentors  
**Prof. Pierre Gönczy**  
School of Life Sciences  
EPF Lausanne

**Prof. Felix Naef**  
ISREC - Swiss Institute for  
Experimental Cancer Research  
EPF Lausanne

**Time-resolved luminescence imaging of cells and tissue in a Lab-on-a-Chip using lanthanide-doped nanoparticle labels for breast cancer detection**

PhD Student  
**to be announced**

Mentors  
**Prof. Martin Gijs**  
Institute of Microengineering  
EPF Lausanne

**Prof. Hans-Anton Lehr**  
Institute of Pathology  
University of Lausanne

**Prof. Jean-Claude Bünzli**  
School of Life Sciences  
EPF Lausanne

# Interdisciplinary Pilot Projects 2008

The Interdisciplinary Pilot Projects (IPP) carry a certain risk. Here researchers from two or more disciplines are given the chance to work for a year on a project that would not normally be eligible for funding.

**Automated spine analysis in 4-D to track activity-dependent changes in neuronal connectivity**

**Research groups**

**Dr. Thomas Oertner**  
Friedrich Miescher Institute for Biomedical Research  
Basel

**Prof. Thomas Vetter**  
Computer Science Department  
University of Basel

**Decoding mechanisms of polarity establishment in *C. elegans* embryos**

**Research groups**

**Prof. Pierre Gönczy**  
ISREC – Swiss Institute for Experimental Cancer Research  
EPF Lausanne

**Prof. Felix Naef**  
ISREC – Swiss Institute for Experimental Cancer Research  
EPF Lausanne

**Development of techniques for analyzing the trypsin-resistant proteome**

**Research groups**

**Dr. Manfredo Quadroni**  
Center for Integrative Genomics  
University of Lausanne

**Dr. Frederique Lisacek**  
Proteome Informatics Group  
Swiss Institute of Bioinformatics

**Exploration of nanocoils for 3-D imaging of biological samples**

**Research groups**

**Prof. Bradley Nelson**  
Institute of Robotics and Intelligent Systems  
ETH Zurich

**Prof. Ueli Grossniklaus**  
Institute of Plant Biology  
University of Zurich

**Fine and robust segmentation of adult-born neuron development in 4-D two-photon microscopy**

**Research groups**

**Dr. Vincent Lepetit**  
Computer Vision Laboratory  
EPF Lausanne

**Prof. Alan Carleton**  
Brain Mind Institute  
EPF Lausanne

**Genome-wide analysis of anti-sense RNA induced epigenetic modifications in the yeast *S. cerevisiae***

**Research groups**

**Dr. Françoise Stutz**  
Department of Cell Biology  
University of Geneva

**Dr. Lars Steinmetz**  
Developmental Biology Unit  
European Molecular Biology Laboratory  
Heidelberg, Germany

**Laboratory evolution of the lac systems in *S. aureus***

**Research groups**

**Prof. Sven Bergmann**  
Department of Medical Genetics  
University of Lausanne

**Prof Jacques Schrenzel**  
Division of Infectious Diseases  
University of Geneva

**Dr. Matthias Heinemann**  
Institute of Molecular Systems Biology  
ETH Zurich

**Plant interaction networks**

**Research groups**

**Prof. Bernhard Schmid**  
Institute of Environmental Sciences  
University of Zurich

**Dr. Prasenjit Saha**  
Institute for Theoretical Physics  
University of Zurich

**Dr. Jasmin Joshi**  
Institute of Environmental Sciences  
University of Zurich

**Printing 3-D multicellular tissue mimetics**

**Research groups**

**Prof. Jürgen Brugger**  
Microsystems Laboratory  
EPF Lausanne

**Prof. Matthias Lütolf**  
Institute of Bioengineering  
EPF Lausanne

**PD Dr. Andreas Zisch**  
Department of Obstetrics Medicine  
University Hospital Zurich

**Structure and genesis of evolving networks**

**Research groups**

**Prof. Louis-Felix Bersier**  
Unit of Ecology & Evolution  
University of Fribourg

**Prof. Christian Mazza**  
Mathematics Department  
University of Fribourg

**The pluripotent stem cell niche: a model system to understand intracellular feedback and cellular differentiation**

**Research groups**

**Dr. Bernd Wollscheid**  
Institute of Molecular Systems Biology  
ETH Zurich

**Prof. Peter Zandstra**  
Institute of Biomaterials and Biomedical Engineering  
University of Toronto

**Prof. Lukas Sommer**  
Institute of Anatomy  
University of Zurich

**Towards the modeling of KRAB/TRIM28-mediated epigenetic regulation**

**Research groups**

**Prof. Didier Trono**  
School of Life Sciences  
EPF Lausanne

**Dr. Philipp Bucher**  
ISREC – Swiss Institute for Experimental Cancer Research  
EPF Lausanne

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# Interdisciplinary Pilot Projects 2009

**A computational high-throughput platform for characterizing transcription regulatory interactions**

**Research groups**

**Prof. Matteo Dal Peraro**  
Institute of Bioengineering  
EPF Lausanne

**Prof. Sebastian Maerkli**  
Laboratory of Biological Network  
Characterization  
EPF Lausanne

**Exploration of chemistry to map proteome/ pharmaceutical interactions**

**Research groups**

**Prof. Matthias Wymann**  
Institute of Biochemistry and  
Genetics  
Department of Biomedicine  
University of Basel

**Prof. Bernd Giese**  
Department of Chemistry  
University of Basel

**High-throughput proteomic screens using matrix-assisted laser desorption/ionization multiple reaction monitoring (MALDI-MRM)**

**Research groups**

**Prof. Gerard Hopfgartner**  
School of Pharmaceutical  
Sciences  
University of Geneva

**Dr. Bruno Domon**  
Institut of Molecular  
Systems Biology  
ETH Zurich

**How to bridge the sequence to function gap: application to uncharacterized human proteins**

**Research groups**

**Prof. Amos Bairoch**  
Department of Structural Biology  
and Bioinformatics  
University of Geneva  
Swiss Institute of Bioinformatics

**Dr. Marco Pagni**  
Vital-IT group  
Swiss Institute of Bioinformatics

**Quantitative analysis and prediction of protein glycation**

**Research groups**

**Dr. Jean-Charles Sanchez**  
Structural Biology and  
Bioinformatics Department  
University of Geneva

**Dr. Frederique Lisacek**  
Proteome Informatics Group  
Swiss Institute of Bioinformatics

**Realtime metabolic biosensors**

**Research groups**

**Dr. Nicola Zamboni**  
Institute of Molecular  
Systems Biology  
ETH Zurich

**Prof. Matthias Peter**  
Institute of Biochemistry  
ETH Zurich

**RootoX: A systems approach to understand how herbivores cope with root-produced toxins**

**Research groups**

**Prof. Ted Turlings**  
Department of Biology  
University of Neuchâtel

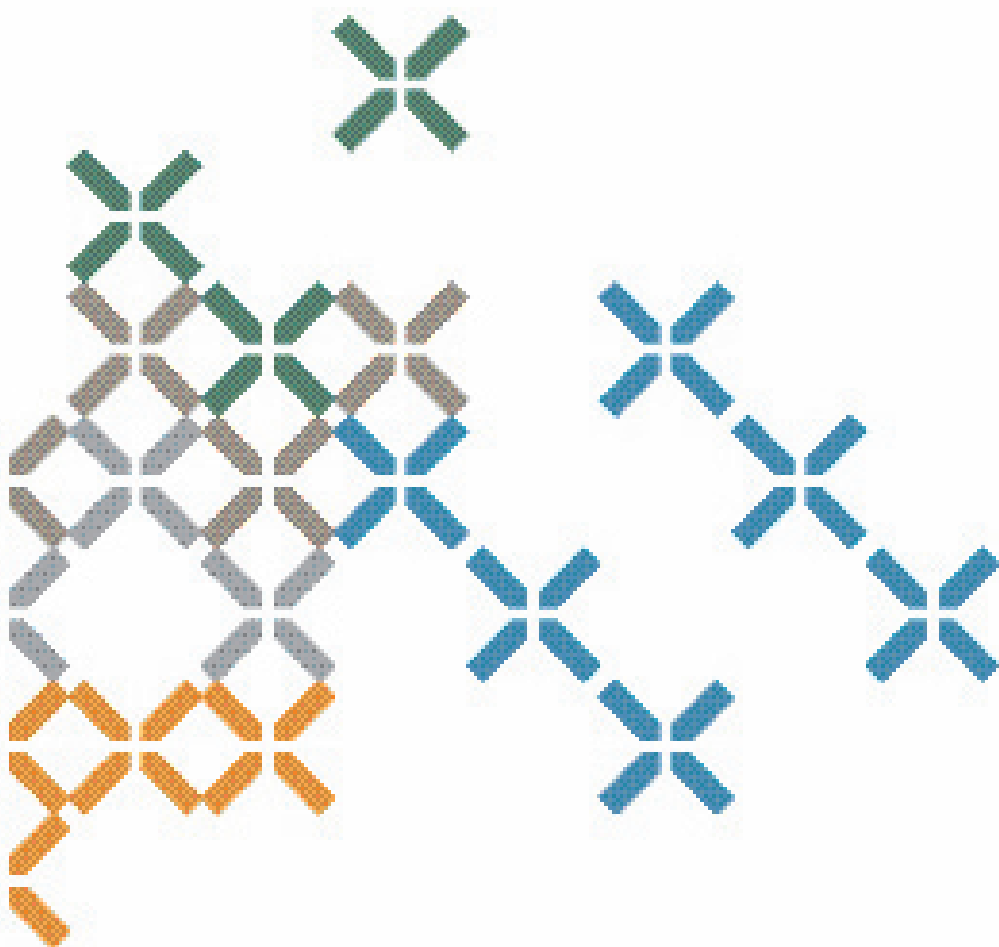
**Dr. Jean-Luc Wolfender**  
School of Pharmaceutical  
Sciences  
University of Geneva

**Technology development for high throughput siRNA-based genetic screens in mammalian cells**

**Research groups**

**Prof. Thanos Halazonetis**  
Department of Molecular Biology  
University of Geneva

**Dr. Jürgen Brugger**  
Institute of Microengineering  
EPF Lausanne



#### **Masthead**

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#### **Edition**

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