

**Fifth International  
Symposium  
of the Austrian  
Proteomics Platform**

**January 20 - 23, 2008**

**Seefeld, Tirol, Austria**



## Organisational items

### Symposium site

Hotel Klosterbräu, Seefeld, Tyrol, Austria

### Congress language

English

### Call for abstracts

The scientific committee invites poster presentations on topics related to proteomics, metabolomics and bioinformatics from young Austrian and international investigators. Due to limited exhibition space, only a total of 12 abstracts will be accepted for poster presentation. The best poster presentations will receive recognition awards. Abstracts should be submitted online until January 7, 2008

### Limited participation

on first registration basis

### Registration fee

Students / postdocs:	200 Euro	GEN-AU Members
Other participants:	400 Euro	free
		free

### Further information and registration

<http://www.proteomics.or.at>

### Information for speakers

Lectures should be prepared using PowerPoint or another presentation software. Speakers can use their own computer or hand in a CD-ROM.

### Organizing committee

- Günther Bonn (Innsbruck, Austria)
- Lukas Huber (Innsbruck, Austria)
- Peter Oefner (Regensburg, Germany)
- Giulio Superti-Furga (Vienna, Austria)

### Organization and Congress Management

cemit - center of excellence in medicine and IT GmbH  
Conference Management  
Phone +43 (0)512 576523-220  
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[app\\_conference@cemit.at](mailto:app_conference@cemit.at)

## Sunday, January 20, 2008

19:00 *Welcome Reception (open end)*

## Monday, January 21, 2008

8:00 – 8:15 Formal Opening of the Symposium

8:15 – 9:00 **Keynote Lecture: Proteins and Their Structures at the Interface of Physics, Chemistry, and Biology**

Nobel Laureate Robert Huber  
Max Planck Institute of Biochemistry, Martinsried, Germany

### PHOSPHOPROTEOMICS I

Chair: Ole Nørregaard Jensen

9:00 – 9:35 **Casting a Net for Kinases: Systematic Discovery of *in vivo* Phosphorylation Networks**

Rune Linding Samuel Lunenfeld Research Institute, Mt. Sinai Hospital,  
Toronto, Ontario, Canada

9:35 – 9:55 **Search for Targets of MEK1**

Sandra Morandell Division of Cell Biology, Innsbruck Medical University,  
Innsbruck, Austria

9:55 – 10:30 **Biological Insights from Quantitative Analysis of ErbB Signaling Networks**

Forest M. White Department of Biological Engineering, Massachusetts  
Institute of Technology, Cambridge, MA, USA

11:00 – 11:20 *Coffee Break*

11:00 – 11:35 **Analysis of Protein Kinase - Substrate Networks by Quantitative Phosphoproteomics**

Bernd Bodenmiller Institute of Molecular Systems Biology, ETH Zürich, Zürich,  
Switzerland

11:35 – 11:55 **Functional Proteomics at the Interface to Medicine**

Keiryn Bennett CeMM Center for Molecular Medicine, Austrian Academy  
of Sciences, Vienna, Austria

11:55 – 12:30 **Novel Tyrosine Kinase Substrates in Oncogenic Signaling and Cancer Development**

Yoon Pin Lim Oncology Research Institute, National University of  
Singapore, Singapore

12:30 – 13:05 **Defining the Polo-like Kinase Interactome using Proteomic, Bioinformatic, and Chemical Genetic Tools**

Michael B. Yaffe Center for Cancer Research, Massachusetts Institute of  
Technology, Cambridge, MA, USA

13:05 – 14:30 *Noon Break*

## Monday, January 21, 2008

### PHOSPHOPROTEOMICS II

Chair: Lukas Huber

14:30 – 15:05 **New Mass Spectrometry Techniques for the Determination of Post-Translational Modifications in Proteomics**

Ole Nørregaard Jensen Department of Biochemistry and Molecular Biology,  
University of Southern Denmark, Odense, Denmark

15:05 – 15:25 **MITOCHECK: Understanding Human Mitotic Protein Phospho-Regulation Using a Combined Proteomics and Chemical Biology Approach**

Björn Hegemann Research Institute of Molecular Pathology, Vienna, Austria

15:25 – 16:00 **Development of Mass Spectrometry Based Technologies for Quantitative Cell Signaling Phosphoproteomics: The Epidermal Growth Factor Receptor Family as a Model System**

Alejandro Wolf-Yadlin Department of Chemistry and Chemical Biology, Harvard  
University, Boston, MA, USA

16:00 – 16:20 **Interaction Proteomics of Signaling Complexes**

Taras Stasyk Division of Cell Biology, Innsbruck Medical University,  
Innsbruck, Austria

16:20 – 16:55 **Quantitative Analysis of Cellular Signaling Modules**

Matthias Gstaiger Institute for Molecular Systems Biology, ETH Hoenggerberg,  
Zürich, Switzerland

16:55 – 17:15 *Coffee Break*

17:15 – 17:50 **A COFRADIC's View on Protein Modifications**

Kris Gevaert VIB Department of Medical Protein Research, University of  
Gent, Gent, Belgium

17:50 – 18:10 **Selective Phosphopeptide Enrichment Using Tin Dioxide Microspheres: Principle and Applications**

Alexander Leitner Department of Analytical Chemistry and Food Chemistry,  
University of Vienna, Vienna, Austria

18:10 – 18:45 **A Quantitative Chemical Proteomics Platform for Assessing Target Selectivity of Kinase Inhibitors**

Marcus Bantscheff Cellzome AG, Heidelberg, Germany

18:45 – 19:20 **The Synapse Phosphoproteome**

Marcelo Coba Genes to Cognition Project, The Wellcome Trust Sanger  
Institute, Hinxton, Cambridgeshire, UK

20:00 *Curling*

## Tuesday, January 22, 2008

### PROTEIN AND PEPTIDE PROFILING

Chair: Günther Bonn

- 8:15 – 8:50** **Intact Protein Separations for Proteome Analysis**  
Christian Huber      Instrumental Analysis and Bioanalysis, Saarland University, Saarbrücken, Germany
- 8:50 – 9:10** **Novel Monolithic Chromatographic Supports for the Separation of Biopolymers and Low-molecular-weight Compounds**  
Clemens Bisjak      Institute of Analytical Chemistry and Radiochemistry, University of Innsbruck, Innsbruck, Austria
- 9:10 – 9:45** **Separation Strategies for Plasma Proteomics**  
Friedrich Lottspeich      Max-Planck-Institute for Biochemistry, Martinsried, Germany
- 9:45 – 10:05** **A New Analytical Material-Enhanced Laser Desorption/Ionisation (MELDI) Based Approach for the Determination of Low-Mass Serum Constituents**  
Matthias Rainer      Institute of Analytical Chemistry and Radiochemistry, University of Innsbruck, Innsbruck, Austria
- 10:05 – 10:25 Coffee Break*
- 10:25 – 11:00** **Biomarker Discovery: Targeted Approaches versus Profiling**  
Rainer Bischoff      Department of Analytical Biochemistry, University of Groningen, Groningen, The Netherlands
- 11:00 – 11:20** **Transgenic Mouse Proteomics**  
Peter Pichler      Institute of Molecular Pathology, Vienna, Austria
- 11:20 – 11:40** **MITOCHECK: Systematic Identification of Protein Complexes Required for Mitosis**  
James Hutchins      Research Institute of Molecular Pathology, Vienna, Austria
- 11:40 – 12:15** **The PNNL Proteomics Platform**  
Gordon Anderson      Pacific Northwest National Laboratory, Richland, WA, USA
- 12:15 – 12:35** **Nucleic Acids Proteomics and Innate Immunity**  
Evelyn Dixit      CeMM Center for Molecular Medicine, Austrian Academy of Sciences, Vienna, Austria
- 12:35 – 13:10** **Keynote Lecture: Globalisation of Cancer**  
Peter Boyle  
Director International Agency for Research on Cancer (IARC/WHO), Lyon, France

*13:10 – 15:00 Noon Break*

## Tuesday, January 22, 2008

### PROTEIN DATA MODELING

Chair: Giulio Superti-Furga

- 15:00 – 15:35** **The Social Network of a Cell: Dynamic Protein Interactions**  
Anne-Claude Gavin      European Molecular Biology Laboratory, Heidelberg, Germany
- 15:35 – 16:10** **Peptide Mediated Protein Interactions: New Ligands and Targets for Intervention**  
Rob Russell      Structural Bioinformatics, European Molecular Biology Laboratory, Heidelberg, Germany
- 16:10 – 16:45** **Discovery of Signaling Networks from Proteomic Data**  
Mark A. Knepper      National Heart Lung and Blood Institute, National Institutes of Health, Bethesda, Maryland, USA
- 16:45 – 17:20** **Identification of Cross-Linked Peptides from Complex Samples and Large Search Databases**  
Oliver Rinner      Institute for Molecular Systems Biology, ETH Zurich, Zurich, Switzerland
- 17:20 – 17:35 Coffee Break*
- 17:35 – 18:10** **Combining New N-Terminal Oriented Proteomics and Comparative Genomics to Correct and Enhance Sequence Databases: The Case of Mycobacteria**  
Alain Van Dorsselaer      Laboratoire de Spectrométrie de Masse Bio-Organique, Institut Pluridisciplinaire Hubert Curien, Strasbourg, France
- 18:10 – 18:45** **Structure and Biophysics of Macromolecular Assemblies**  
Ben Luisi      Department of Biochemistry, University of Cambridge, Cambridge, UK
- 18:45 – 19:20** **Structural Biology of Protein Complexes in the Regulation of Gene Expression**  
Michael Sattler      Institute of Structural Biology, GSF-National Research Centre for Environment and Health, Department of Chemistry, Technical University Munich, Garching, Germany
- 19:30 Dinner*

Wednesday, January 23, 2008

**PROTEIN ARRAYS**

Chair: Peter Oefner

- 8:15 – 8:50 Recent Developments in Interaction Screening on Protein Arrays**  
Dolores J. Cahill UCD Conway Institute, University College Dublin, Dublin, Ireland
- 8:50 – 9:25 Characterization of the Cellular State of Tyrosine Phosphorylation by SH2-Profilng**  
Peter Nollau Diagnostic Center, Department of Clinical Chemistry, University Medical Center Hamburg-Eppendorf, Hamburg, Germany
- 9:25 – 10:00 Unraveling Arabidopsis Protein Kinase Signaling Cascades by Combined Mass Spectrometry and Peptide Chip Based Phosphoproteomic Approaches**  
Heribert Hirt Unité de Recherche en Génomique Végétale (URGV), Evry, France
- 10:00 – 10:35 Reverse Phase Protein Microarrays and Multiplexed Microspot Immunoassays: Tools for the Next Generation of Quantitative Protein Network Analysis**  
Ulrike Korf Division of Molecular Genome Analysis, DKFZ Heidelberg, Heidelberg, Germany

10:35 – 11:00 *Coffee Break*

**DISEASE PROTEOMICS**

Chair: Andreas Kungl

- 11:00 – 11:35 Serum Proteome Profiling for Cancer Prediction Using Recombinant Antibody Microarrays**  
Carl A.K. Borrebaeck Department of Immunotechnology, Lund University, Lund, Sweden
- 11:35 – 11:55 Protein Networks in Human Leukemia**  
Oliver Hantschel CeMM Center for Molecular Medicine, Austrian Academy of Sciences, Vienna, Austria
- 11:55 – 12:30 Proteomic Profiling of Acute Myelogenous Leukemia Using Reverse Phase Protein Arrays**  
Steven M. Kornblau M.D. Anderson Cancer Center, The University of Texas, Houston, TX, USA
- 12:30 – 12:50 Profiling Membrane Proteomes of Pathogenic Microorganisms**  
Anton Spreitzer Department of Pharmaceutical Chemistry, University of Graz, Graz, Austria

Wednesday, January 23, 2008

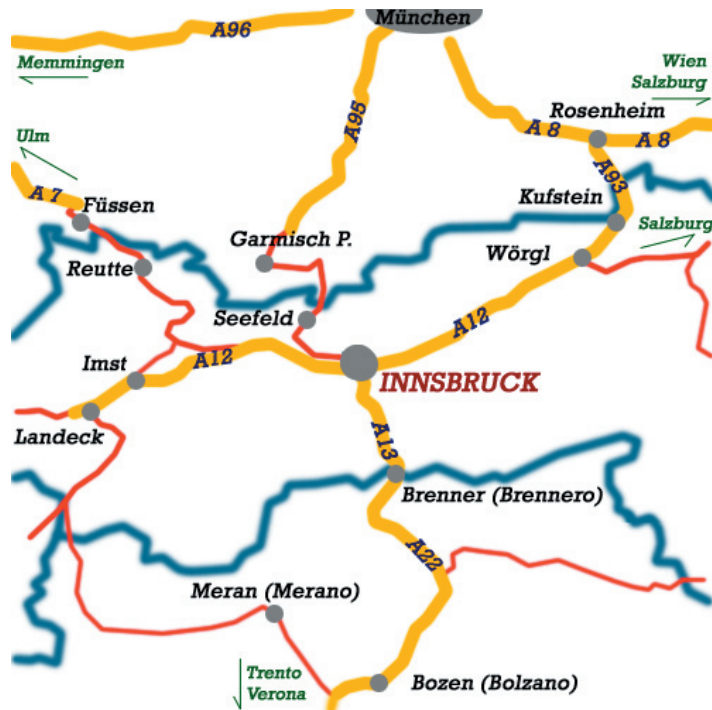
- 12:50 – 13:25 From Urinary Peptide Profiles to Disease-Associated Proteases**  
Hartmut Schlüter Core Facility Protein Analytik, Charite Campus Benjamin Franklin, Berlin, Germany
- 13:25 – 14:00 Vibrational Spectroscopy (Mid-Infrared, Near-Infrared and Raman): Powerful Tools for Research and Quality/Process Control in the Life Sciences**  
Heinz W. Siesler Department of Physical Chemistry, University of Duisburg-Essen, Essen, Germany
- 14:00 – 14:10 Closing Remarks
- 14:30 – 16:00 Board Meeting of the Austrian Proteomics Platform**

**List of Speakers**

- Gordon Anderson, Richland, WA, USA
- Marcus Bantscheff, Heidelberg, Germany
- Keiryn Bennett, Vienna, Austria
- Rainer Bischoff, Groningen, The Netherlands
- Clemens Bisjak, Innsbruck, Austria
- Bernd Bodenmiller, Zürich, Switzerland
- Carl A.K. Borrebaeck, Lund, Sweden
- Peter Boyle, Lyon, France
- Dolores J. Cahill, Dublin, Ireland
- Marcelo Coba, Hinxton, Cambridgeshire, UK
- Evelyn Dixit, Vienna, Austria
- Anne-Claude Gavin, Heidelberg, Germany
- Kris Gevaert, Gent, Belgium
- Matthias Gstaiger, Zürich, Switzerland
- Oliver Hantschel, Vienna, Austria
- Björn Hegemann, Vienna, Austria
- Heribert Hirt, Evry, France
- Christian Huber, Saarbrücken, Germany
- Nobel Laureate Robert Huber, Martinsried, Germany
- James Hutchins, Vienna, Austria
- Ole Nørregaard Jensen, Odense, Denmark
- Mark A. Knepper, Bethesda, Maryland, USA
- Ulrike Korf, Heidelberg, Germany
- Steven M. Kornblau, Houston, TX, USA
- Alexander Leitner, Vienna, Austria
- Rune Linding, Toronto, Ontario, Canada
- Friedrich Lottspeich, Martinsried, Germany
- Ben Luisi, Cambridge, UK
- Sandra Morandell, Innsbruck, Austria
- Peter Nollau, Hamburg, Germany
- Peter Pichler, Vienna, Austria
- Yoon Pin Lim, Singapore
- Matthias Rainer, Innsbruck, Austria
- Oliver Rinner, Zurich, Switzerland
- Rob Russell, Heidelberg, Germany
- Michael Sattler, Garching, Germany
- Hartmut Schlüter, Berlin, Germany
- Heinz W. Siesler, Essen, Germany
- Anton Spreitzer, Graz, Austria
- Taras Stasyk, Innsbruck, Austria
- Alain Van Dorsselaer, Strasbourg, France
- Forest M. White, Cambridge, MA, USA
- Alejandro Wolf-Yadlin, Boston, MA, USA
- Michael B. Yaffe, Cambridge, MA, USA

## Seefeld – How to get there

Seefeld is located 15 km/10 mi outside Innsbruck, whose airport offers daily connections to Vienna, Frankfurt and Amsterdam. Alternatively, one may fly into Munich, which is located about 160 km/100 mi northeast of Seefeld, and take a shuttle or train to Seefeld, which will take between 2 and 4 hours. For more details, contact pdl.





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