



International Conference

Konstanz Symposium Chemical Biology

16-18 June 2010

Steigenberger Inselhotel | Konstanz | Germany



**We thank our
dedicated partners
for their support.**



The conference is also generously supported by BASF.

1st International Conference of the
Konstanz Research School Chemical Biology

**Konstanz Symposium
Chemical Biology**

Konstanz, Steigenberger Inselhotel
16-18 June 2010

Local Organisation

Konstanz Research School Chemical Biology
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Location

Steigenberger Inselhotel
Auf der Insel 1
78462 Konstanz – Germany
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Dear colleagues and friends,

We kindly invite you to participate in the Konstanz Symposium Chemical Biology in Konstanz, Germany, 16-18 June 2010.

The symposium features hot topics within highly relevant areas of chemical biology. Leading scientists in the field address current and future developments. One of the main aims is, however, to bring our doctoral students in touch with senior scientists and researchers known worldwide. Thus, the symposium provides a platform to get to know each other personally and to foster research collaborations. [The organisers are looking forward to meeting you in Konstanz!](#)

Organisers

Michael Berthold	Department of Computer & Information Science
Elke Deuerling	Department of Biology
Marcus Groettrup	Department of Biology
Andreas Marx	Department of Chemistry
Thomas U. Mayer	Department of Biology
Martin Scheffner	Department of Biology
Andreas Zumbusch	Department of Chemistry

Program

Wednesday, 16 June

until 15:00 h	Registration + coffee
15:00 – 15:10 h	Welcome ANDREAS MARX, Coordinator KoRS-CB, University of Konstanz Greeting ULRICH RÜDIGER, Rector of the University of Konstanz
15:10 – 16:10 h	Keynote AARON CIECHANOVER (Haifa): The Ubiquitin Proteolytic System – From Basic Mechanisms and onto Human Diseases and Drug Targeting
16:10 – 16:50 h	HUIB OVAA (Amsterdam): Chemistry and Biology of Protein Degradation and Antigen Presentation
16:50 – 17:30 h	HERMANN SCHINDELIN (Würzburg): Protein Folding and Misfolding in the Endoplasmic Reticulum
17:30 – 18:10 h	CHRISTOPH SCHMIDT (Göttingen): Mechanics of Protein Nano-Shells: Microtubules and Viruses
18:30 h	Boat trip to Mainau Mainau-Dinner (Comturey-Keller)

Thursday, 17 June

09:00 – 10:00 h	Keynote JEAN-MARIE LEHN (Strasbourg): Perspectives in Chemistry: From Supramolecular towards Adaptive Chemistry – Bioorganic Aspects
10:00 – 10:40 h	GÜNTER VON KIEDROWSKI (Bochum): Systems Chemistry
10:40 – 11:10 h	Coffee break

11:10 – 11:50 h	RICHARD R. SCHMIDT (Konstanz): Glycoside Bond Formation – Application to Glycoconjugate Synthesis and Biological Studies
11:50 – 12:30 h	CHI-HUEY WONG (Taipei): Post-Translational Glycosylation: Challenges and Opportunities
12:30 – 14:30 h	Lunch
15:00 – 15:40 h	RICK MORIMOTO (Evanston): The Proteostasis Challenge: Maintaining the Proteome in Stress, Aging, and Diseases of Protein Conformation
15:40 – 16:20 h	BERND BUKAU (Heidelberg): Mechanisms of Chaperones in Protein Quality Control
16:20 – 16:50 h	Coffee break
16:50 – 17:30 h	HERBERT WALDMANN (Dortmund): Biology Oriented Synthesis
17:30 – 18:10 h	OLIVER KOHLBACHER (Tübingen): Going Nonlinear – Machine Learning Methods in QSAR and QSPR
19:00 h	Dinner (Steigenberger)

Friday, 18 June

09:00 – 09:40 h	JEFFERY W. KELLY (La Jolla): Adapting Proteostasis to Ameliorate Human Disease
09:40 – 10:20 h	CHRISTIAN HERTWECK (Jena): Exploring and Engineering Polyketide Diversity in Microorganisms
10:20 – 10:50 h	Coffee break
10:50 – 11:30 h	BURKHARD BECHER (Zürich): Tales of T Cell Polarization: from ‚Cocktail-Immunology‘, Positive-Publication-Bias and Negative Data
11:30 – 12:10 h	ALEXANDER FLÜGEL (Göttingen): Autoimmunity in Real Time: How Encephalitogenic T Cells Attack the Brain
12:10 h	Concluding remarks
13:00 h	Lunch

Speakers and Participants

Speakers:

Aaron Ciechanover	Technion – Israel Institute of Technology, Haifa
Jean-Marie Lehn	Université de Strasbourg
Burkhard Becher	Universität Zürich
Bernd Bukau	Ruprecht-Karls-Universität Heidelberg
Alexander Flügel	Georg-August-Universität Göttingen
Christian Hertweck	Leibniz-Institut für Naturstoff-Forschung und Infektionsbiologie, Jena
Jeffery W. Kelly	The Scripps Research Institute, La Jolla
Günter von Kiedrowski	Ruhr-Universität Bochum
Oliver Kohlbacher	Eberhard Karls Universität Tübingen
Rick Morimoto	Northwestern University, Evanston
Huib Ovaa	Het Nederlands Kanker Instituut, Amsterdam
Hermann Schindelin	Universität Würzburg
Christoph Schmidt	Georg-August-Universität Göttingen
Richard R. Schmidt	Universität Konstanz
Herbert Waldmann	Max-Planck-Institut für Molekulare Physiologie, Dortmund
Chi-Huey Wong	Academia Sinica, Taipei

Participants:

Adamska, Iwona

Apell, Hans-Jürgen

Benz, Armin

Benzler, Martin

Berthold, Michael

Betz, Karin

Blatter, Nina

Braun, Joachim

Buntru, Alexander

Bürger, Stefanie

Bürkle, Alexander

Bußkamp, Holger

Camicia, Rosalba

Cirri, Erica

Dauner, Martin

Deuerling, Elke

Devadoss, Fredrick

Drescher, Malte

Drum, Matthias

Eger, Silvia

Exner, Thomas

Fanning, Ellen

Galizia, Giovanni

Gasparic, Carlo

Gauss, Dominik

Giesekeing, Sonja

Gisin, Jonathan

Groettrup, Marcus

Groth, Ulrich

Gutierrez, Olga

Hacker, Stephan

Hardt, Norman

Hartig, Jörg

Hauck, Christof

Hawkins, Elizabeth

Holzberger, Bastian

Horn, Martin

Horst, Janina

Huhn, Thomas

Ignatious, Jennifer

Immel, Timo

Juneja, Puneet

Jüngst, Christian

Juretschke, Jeannette

Kalim, Khalid

Kang, Ji Hyoun

Kastl, Johanna

Kniepert, Andrea

Koch, Miriam

Kopylova, Natalia

Kreft, Stefan

Kroth, Peter

Kügler, Philipp

Kulić, Žarko

Kuraku, Shigehiro

Leist, Marcel

Lindner, Kathrin

Mannuthodikayil, Jamsad

Manousaki, Tereza

Martello, Rita

Marx, Andreas

Mayer, Jutta

Mayer, Thomas

Mecking, Stefan

Mogg, Ulrike

Möller, Heiko

Nägele, Bettina

Niederwieser, Andrea

Obeid, Samra

Pagliarini, Dana

Paraschiv, Gabriela

Perthold, Manuela

Poeltl, Dominik

Popp, Oliver

Preissler, Steffen

Prestel, Andreas

Przybylski, Michael

Rehm, Charlotte

Robotta, Marta

Ryu, Stella

Scheffner, Martin

Scheinhardt, Benjamin

Schleheck, David

Schneider, Alexander

Scior, Annika

Sheppard, Paul

Siegmund, Vanessa

Slamnoiu, Stefan

Spinnenhirn, Valentina

Sroka, Magdalena

Steck, Anna-Lena

Strittmatter, Tobias

Stürner, Elisabeth

Susnea, Iuliana

Tausch, Myriam

Vlad, Camelia

Voges, Maike

Weber, Annemarie

Wesch, Thomas

Windler, Miriam

Witte, David

Wittmann, Valentin

Wolf, Dieter

Zhou, Wenchang

Location

Constance and Kreuzlingen have grown together and are yet separated by a borderline: Constance on the German side and Kreuzlingen on the Swiss side of the border. Together they represent the largest economic area at Lake Constance.

The historical city of Constance with its medieval town ensures a diverse offer of culture and leisure activities. The lake and mountains are the ideal location for sporting endeavours – from sailing and hiking to mountain climbing and wintersports. Zurich with its international airport can be reached quickly by car or train.

The international conference „Konstanz Symposium Chemical Biology“ will take place at the Steigenberger Inselhotel in Konstanz, which is ideally located on a small private island. The building itself is well known as a historical site of the city of Konstanz: in the Middle Ages it was a Dominican monastery.

Only few people know that even the history of the University of Konstanz started here: in 1966, after developing a concept, the University of Konstanz began its work in a wing of the Inselhotel. Thus, the University and the Inselhotel are linked by a special neighbourhood.



City map of Konstanz



Konstanz Central Station to Zurich Airport

Departure	Arrival	Change trains	Departure	Arrival
10:03				11:08
10:21	10:54	Weinfelden	10:59	11:38
11:03				12:08
11:21	11:54	Weinfelden	11:59	12:38
12:03				13:08
12:21	12:54	Weinfelden	12:59	13:38
13:03				14:08
13:21	13:54	Weinfelden	13:59	14:38
14:03				15:08
14:18	14:54	Weinfelden	14:59	15:38
15:03				16:08
15:21	15:54	Weinfelden	15:59	16:38
16:03				17:08
16:21	16:54	Weinfelden	16:59	17:38
17:03				18:08
17:21	17:54	Weinfelden	17:59	18:38
18:03				19:08
18:18	18:54	Weinfelden	18:59	19:38
19:03				20:08
19:18	19:54	Weinfelden	19:59	20:38
20:03				21:08

Monday – Friday, bold = direct connections

The University of Konstanz

Top research, excellence in teaching and studies as well as internationality and interdisciplinary cooperation have been characteristic for the University of Konstanz since its establishment in 1966. This clear focus at an early stage resulted in an unmistakable profile, which is characterised not only by high quality, but also by innovation, creativity and commitment to research.

The consistent further development of its strengths resulted in the University of Konstanz's success in the excellence initiative of the Federal and state governments. As one of nine German universities, it was recognised in October 2007 as an Excellence University.

Already in October 2006 the "Cultural Foundations of Integration" excellence cluster had been approved. In October 2007, the proposals for the "Model Konstanz - Towards a Culture of Creativity" future concept and for the Graduate School "Chemical Biology" were successful.

www.uni-konstanz.de



Konstanz Research School Chemical Biology

The Konstanz Research School Chemical Biology provides a unique academic environment within the Departments of Biology, Chemistry, and Computer & Information Science that fosters top level interdisciplinary education and research.

The unifying research element of all groups participating in the Konstanz Research School Chemical Biology is the desire to elucidate and understand complex biological processes at the molecular level. The implementation of such an ambitious task requires both the expertise in a broad range of state-of-the-art methodologies and techniques and the availability of biologically relevant model systems.

The research portfolio of the Konstanz Research School Chemical Biology is built on strong research priorities at the University of Konstanz in Synthetic Chemistry, Cellular Biochemistry, Biomedicine, Biophysics and Computational Biology. Besides, flourishing cooperations exist with several academic and industrial partners.

www.chembiol.uni-konstanz.de



Program Overview

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16:10 – 18:10 h	Talks
18:30 h	Boat trip to Mainau
	Dinner

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