

Doc Day – NAWI Graz Doctoral School

Molecular Biosciences and Biotechnology

Tuesday, 10th February 2009

Zentrum für Molekulare Biowissenschaften (ZMB)

Humboldtstraße 48, HS 44.11/Seminar Rooms/ZMB Lounge

Programme

08:45 – 09:00 *Opening* by the Rector Univ. Prof. DI Dr. Hans Sünkel (TUG) and
Brief Introduction by Ellen Zechner and Günther Daum
(Directors of NAWI Graz Doctoral School)

Enzymes – Nature's Molecular Machines

Chair: Claudia Ruth

09:00 – 09:25 **Andreas Winkler** (Peter Macheroux)
*Berberine Bridge Enzyme – Catalysing Challenging Chemistry with an
Unusually Modified FAD Cofactor*

09:25 – 09:50 **Martin Karabec** (Karl Gruber)
GLMC - Glutamate Mutase Challenge

09:50 – 10:15 **Aleksandra Andryushkova** (Anton Glieder)
*New Schizosaccharomyces Pombe based System to Discover
Industrial Enzymes*

10:15 – 10:40 **Christiane Gödl** (Bernd Nidetzky)
*On the Mechanism of Enzymatic Glycosyl Transfer – Insights from
Structure-Function Studies of Disaccharide Phosphorylases, and
Exploitation in the Synthesis of New Glucosides*

10:40 – 11:00 *Coffee, Tea Break and Poster Presentations*

Molecular Networks

Chair: Matteo Beretta

11:00 – 11:25 **Sabine Kienesberger** (Ellen Zechner)
*A Novel Type IV Secretion System is Unique to the Campylobacter
Fetus Subspecies Venerealis and Contributes both to Bacterial
Virulence and Conjugative DNA Delivery*

11:25 – 11:50 **Science-Award Winner for Best European PhD-Thesis 2008**
Sabrina Büttner (Frank Madeo)
Endonuclease G Regulates Budding Yeast Life and Death

11:50 – 12:40 **Plenary Lecture – Manuela Baccarini**
(Department of Microbiology and Immunobiology, Max F. Perutz
laboratories, Vienna Biocenter, Austria)
The MAPK-pathway – Scaffolding, Regulation and in vivo Roles

12:40 – 13:30 *Lunch Break*

From Chemistry to Biology

Chair: Andreas Winkler

13:30 – 13:55 **Stefan Liebming** (Georg Gübitz)
Oxidation of Secondary Alcohols

13:55 – 14:20 **Barbara Überbacher** (Kurt Faber)
Biosynthesis of Chiral THF- and THP-Units: Can Epoxide Hydrolases Catalyze Nucleophilic Cascade Reactions?

14:20 – 15:10 **Plenary Lecture – Hans-Werner Mewes**
(Institute for Bioinformatics, GSF National Research Center, Neuherberg, Germany)
From Bioinformatics to Systems Biology: From Data to Quantitative Models

15:10 – 16:15 *Coffee, Tea Break and Poster Presentations*

Understanding Lipid Function

Chair: Renate Schreiber

16:15 – 16:40 **Maria Morak** (Albin Hermetter)
Differential Activity-Based Gel Electrophoresis – A New Approach for Comparative Analysis of Lipolytic Enzymes

16:40 – 17:05 **Gunter Almer** (Ruth Prassl)
Enhanced Imaging of Atherosclerotic Plaques in an ApoE-Deficient Mouse Model using Nanotechnology

17:05 – 17:30 **Gabriele Schoiswohl** (Robert Zimmermann)
The Role of Adipose Triglyceride Lipase (ATGL) in Liver Triglyceride Metabolism

17:30 – 17:55 **Andreas Beranek** (Regina Leber)
*Cld1p Catalyses the Deacylation of De Novo Synthesized Cardiolipin in the Yeast *Saccharomyces Cerevisiae**

17.55 – ... *Best Poster Award, Closing Remarks and Get together at Buffet and Drinks*

Joint Scientific Meeting for Doctoral Students of
NAWI Graz Doctoral School of Molecular Biosciences and Biotechnology,
Graz University of Technology and University of Graz

We are looking forward to seeing you!

Sponsored by Doctoral School of Molecular Biology and Biochemistry, Doctoral School of Molecular Biosciences and Biotechnology, and Doktoratskolleg Molecular Enzymology