

CtB2010

The 5th Central European Conference – Chemistry towards Biology

8–11 September 2010, Primošten, Croatia

Program of the Conference

Wednesday, 08 September 2010

13:00 – 21:00

Registration

16:45 – 17:00

Opening Ceremony

Sanja Tomić, *Chair of the Organizing Committee*

Danica Ramljak, *Director of the Ruđer Bošković Institute, Zagreb*

Zvonimir Maksić, *Member of the International Steering Committee*

Chairperson

Sanja Tomić, Croatia

17:00 – 17:25

INVITED LECTURE

Emil Palecek, Institute of Biophysics, Czech Republic

"Electrochemistry of biomacromolecules. New trends in protein and polysaccharide electroanalysis"

17:25 – 17:40

SHORT LECTURE

Krzysztof Lewinski, Jagiellonian University, Poland

"High pressure protein crystallography for structural biology"

17:40 – 18:05

INVITED LECTURE

Mariusz Jaskolski, A. Mickiewicz University, Poland

"Towards understanding Nod factor biosynthesis: crystal structure of rhizobial NodS N-methyltransferase"

18:05 – 18:20

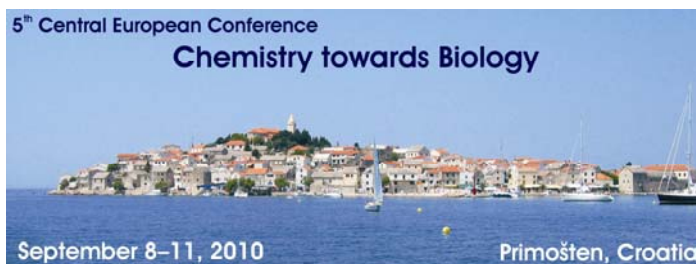
SHORT LECTURE

Bianka Szalaine Agoston, Eötvös Loránd University, Hungary

"Structural and functional characterization of the intrinsically disordered plant dehydrin ERD14"

18:20 – 19:30

Welcome reception



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Thursday, 09 September 2010

Chairperson

Marija Luić, Croatia

09:00 – 09:50
PLENARY LECTURE

Siniša Volarević, University of Rijeka, Croatia
"Activation of a p53-dependent ribosome checkpoint is responsible for congenital malformations in mice"

09:50 – 10:15
INVITED LECTURE

Ivana Weygand–Đurašević, University of Zagreb, Croatia
"The many faces of serine activating enzymes in protein biosynthesis"

10:15 – 10:40
SHORT LECTURE

Delia Picone, University of Naples Federico II, Italy
"New insights on the structure/toxicity relationships in seminal RNase, a protein with multiple shapes"

10:40 – 11:00

Coffee Break

Chairperson

Marija Abramić, Croatia

11:00 – 11:50
PLENARY LECTURE

Rudolf Zechner, Karl Franzens University, Austria
"Lipolysis: More than just the catabolism of fat"

11:50 – 12:05
SHORT LECTURE

Veronika Stoka, Jožef Štefan Institute, Slovenia
"Cross-talk of the kallikrein–kinin and the renin–angiotensin systems as revealed by a structural network"

12:05 – 12:20
SHORT LECTURE

Tea Pavkov–Keller, MPI of Biophysics, Germany
"How do S-layers self-assemble?"

12:20 – 14:30

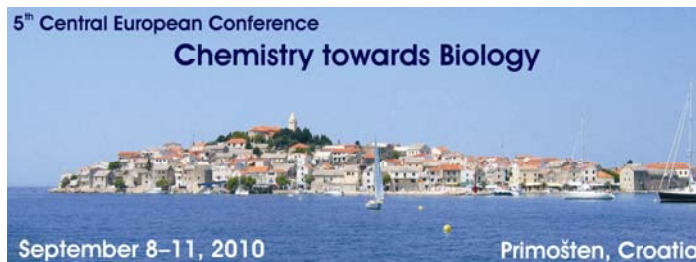
Lunch Break

Chairperson

Mariusz Jaskolski, Poland

14:30 – 15:20
PLENARY LECTURE

Anna Tramontano, University of Rome "La Sapienza", Italy
"Structural bioinformatics: From a luxury to a necessity"



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15:20 – 15:45
INVITED LECTURE

Peter Macheroux, Graz University of Technology, Austria
"Novel alkyl sulfatases for biocatalysis"

15:45 – 16:00
SHORT LECTURE

Gyula Batta, University of Debrecen, Hungary
"Thermal unfolding of a highly stable antifungal protein at extreme temperatures"

16:00 – 16:30

Coffee Break

Chairperson

Peter Macheroux, Austria

16:30 – 16:45
SHORT LECTURE

Marcel Zámocký, BOKU University, Austria
"From chemistry of bifunctional catalase-peroxidases towards molecular evolution of the peroxidase-catalase superfamily"

16:45 – 17:00
SHORT LECTURE

Marija Luić, Ruđer Bošković Institute, Croatia
"Validation of the catalytic mechanism of E. coli purine nucleoside phosphorylase"

17:00 – 17:15
SHORT LECTURE

Nadezhda Kudryasheva, Institute of Biophysics, Russia
"Pysico-chemical classification of toxic effects on bioassay system"

17:15 – 17:40
INVITED LECTURE

Barbara Mohar, National Institute of Chemistry, Slovenia
"Optimized ligands for Rh-catalyzed enantioselective hydrogenation"

18:00 – 19:30

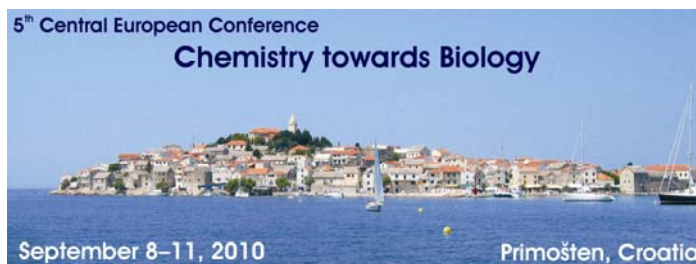
Poster Session

19:30 –

Dinner

21:00 –

Meeting of the International Steering Committee



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Friday, 10 September 2010

Chairperson

Zvonimir Maksić, Croatia

09:00 – 09:50
PLENARY LECTURE

Nicholas S. Bodor, Center for Drug Discovery, Florida, U.S.A.
"Retrometabolic drug design: Soft drugs and chemical delivery systems"

09:50 – 10:15
INVITED LECTURE

Ema Žagar, National Institute of Chemistry, Slovenia
"Dendritic polymers for drug delivery applications"

10:15 – 10:30
SHORT LECTURE

Gábor Pál, Eötvös Loránd University, Hungary
"Selective blocking of the lectin pathway of the complement system with phage display evolved peptide inhibitors"

10:30 – 10:55

Coffee Break

Chairperson

Jaroslav Polanski, Poland

10:55 – 11:20
INVITED LECTURE

Grażyna Stochel, Jagiellonian University, Poland
"New photosensitizers for photodynamic therapy of cancer"

11:20 – 11:45
INVITED LECTURE

Silvano Geremia, University of Trieste, Italy
"Structural basis for vitamin B12 delivery and the rational design of bioconjugates"

11:45 – 12:00
SHORT LECTURE

Laszlo Nyitray, Eötvös Loránd University, Hungary
"Affinity enhancement of linear peptide motifs by in vitro evolution: the case of dynein light chain (DYNLL) binding peptides"

12:30 – 19:00

Excursion to the "Krka Lakes" National Park



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Saturday, 11 September 2010

Chairperson

Botond Penke, Hungary

09:00 – 09:50
PLENARY LECTURE

András Perczel, Eötvös Loránd University, Hungary
"Foldamer stability in Trp cage miniproteins and type II diabetes"

09:50 – 10:15
INVITED LECTURE

Linda Luck, State University of New York, U.S.A.
"¹⁹F NMR studies of receptor proteins"

10:15 – 10:40
INVITED LECTURE

David M. Smith, Ruđer Bošković Institute, Croatia
"Subtle Differences with Important Consequences in Enzymatic Diol Dehydration"

10:40 – 11:00

Coffee Break

Chairperson

Piotr Cysewski, Poland

11:00 – 11:50
PLENARY LECTURE

Christian Obinger, BOKU, Austria
"Chemistry and physiological role of heme peroxidase-mediated halogenations and oxidation reactions"

11:50 – 12:15
INVITED LECTURE

Victor Viglasky, Safarik University, Slovakia
"Thermodynamic aspects of intra- and intermolecular G-quadruplexes"

12:20 – 14:00

Lunch Break

Chairperson

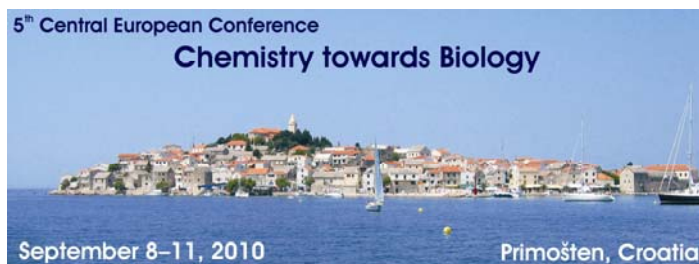
Robert Vianello, Croatia

14:00 – 14:25
INVITED LECTURE

Bela Gyurcsik, University of Szeged, Hungary
"Specificity of the zinc-finger DNA interaction. Calculations and experiments"

14:25 – 14:40
SHORT LECTURE

Lidija-Marija Tumor, Ruđer Bošković Institute, Croatia
"The interactions of bis-phenanthridinium-nucleobase conjugates with double stranded DNA"



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14:40 – 14:55
SHORT LECTURE

Tadeusz Marek Krygowski, University of Warsaw, Poland
*"Formamide as the Lewis acid/base amphoteric solvent molecule:
a computational approach"*

15:00 – 15:15

Poster Award Ceremony

15:15 – 15:30

Closing Session