

10th International Symposium on Applied Bioinorganic Chemistry

ISABC 10

Program

25 - 28 September, 2009

Debrecen, Hungary

25th of September, 2009 (Friday)

12.00 – 21.00	Registration (Kölcsey Conference Centre, 1st floor)
	Lecture Hall – A
17.30 – 17.50	Opening Ceremony
17.50 – 18.35	L1: Jan Reedijk (Leiden, The Netherlands): Platinum Anticancer Coordination Compounds: Study of DNA Binding Inspires New Drug Design Chairman: Helmut Sigel (Basel, Switzerland)
18.35 – 19.20	L2: Chris Orvig (Vancouver, Canada): Insulin-enhancing Vanadium Drugs: From Lunch Table Scribble to Clinical Trials Chairman: David R. Williams (Cardiff, UK)
19.20 – 19.30	General Information (Organizing Committee)
20.00 – 21.30	Welcome party – Hotel Lycium, Restaurant

L: Plenary lectures (45 minutes)

S: Session lectures (25+5 minutes)

O: Short oral presentations (15+5 minutes)

26th of September, 2009 (Saturday)

8.00 – 18.00	Registration (Kölcsey Conference Centre, 1st floor)	
8.40 – 9.25	Lecture Hall – A	
	L3: Glenn Millhauser (Santa Cruz, US): Molecular Properties of the Copper Sites in the Prion Protein and the Relationship to Human Disease Chairman: Gianni Valensin (Siena, Italy)	
	Lecture Hall – A	Lecture Hall - B
	Chairman: Tamás Kiss (Szeged, Hungary)	Chairman: István Fábíán (Debrecen, Hungary)
9.30 – 10.00	S1: Henryk Kozłowski (Wrocław, Poland): The Specific Interactions of Fish Prion Proteins with Metal Ions	S3: Zijian Guo (Nanjing, China): The <i>in vitro</i> and <i>in vivo</i> Applications of Novel Zinc Fluorescent Sensors
10.00 – 10.30	S2: Giuseppe Pappalardo (Catania, Italy): Copper(II) and Zinc(II) Interactions with the Amyloid- β Peptide: Structure of the Complexes, Oligomerisation and <i>in vitro</i> Toxicity	S4: Róbert Gyurcsányi (Budapest, Hungary): Nanostructures and Synthetic Ligands Assisted (Bio)sensing
10.30 – 10.50	<i>Coffee break</i>	
	Lecture Hall – A	Lecture Hall - B
	Chairman: Vincent L. Pecoraro (Ann Arbor, US)	Chairman: Chris Orvig (Vancouver, Canada)
10.50 – 11.10	O1: Marek Luczkowski (Wrocław, Poland): Metal Ion Binding Properties of BRI2-23, Natural Inhibitor of β -Amyloid Aggregation	O6: Petr Hermann (Prague, Czech Republic): Influence of Phosphorus Acid Pendant Arms on Solution Properties of Metal Complexes of Polyazamacrocycles
11.10 – 11.30	O2: Gianni Valensin (Siena, Italy): Structural Delineation of Zinc Bound to Fragments of Amyloid- β , PrP and PrP-like Proteins. NMR and Other Spectroscopic Studies	O7: Lage Pettersson (Umea, Sweden): The Aqueous Peroxovanadate – N-hydroxyimino-2,2'-dipropionic acid („Amavadin Ligand”) System
11.30 – 11.50	O3: Danilo Milardi (Catania, Italy): The Role of Cu(II) Ions in the Conformational Preferences and Membrane Interaction of Human and Avian Prion Proteins' N-terminal Tandem Repeat Peptides	O8: Koichiro Nakamura (Yokkaichi, Mie, Japan): Arsenic Detoxification: Transformation of Toxic Inorganic Arsenic into Non-Toxic Arsenobetaine Mediated by Vitamin B ₁₂ and Glutathione (GSH)
11.50 – 12.10	O4: Tamás Gajda (Szeged, Hungary): Enzyme mimetic metallopeptides	O9: Guillermo Mendoza-Diaz (Guanajuato, Mexico): Metal Complexes with Ligands Containing Imidazoles and Pyrazole Rings
12.10 – 12.30	O5: Eva Freisinger (Zurich, Switzerland): The Metal-Thiolate Clusters of Plant Metallothioneins	O10: Gabriele Wagner (Augsburg, Germany): New Platinum Oxadiazoline Complexes with Cytostatic Properties

12.30 – 14.15	BREAK	
	Lecture Hall – A	
14.15 – 15.00	L4: Carel Wreesmann (Akzo Nobel, Arnhem, The Netherlands): Ferric Sodium EDTA for Therapeutic Uses Chairman: Robert Crichton (Louvain, Belgium):	
15.00 – 16.30	Poster Session I. (including coffee break)	
	Lecture Hall – A	Lecture Hall - B
	Chairman: Seth M. Cohen (San Diego, US)	Chairman: Etelka Farkas (Debrecen, Hungary)
16.30 – 17.00	S5: Athanosios Salifoglou (Thessaloniki, Greece): The Complex Aqueous Chemistry of Al(III) in Binary Systems Involving Biologically Relevant Substrates. Relevance to Toxicity	S7: Robert Crichton (Louvain, Belgium): Iron, Neurodegenerative Diseases and Potential Therapies
17.00 – 17.30	S6: Peter Comba (Heidelberg, Germany): Structure, Reactivity and Biological Function of Copper(II) Complexes of Cyclic Peptides	S8: José M. Dominguez-Vera (Granada, Spain): Native and Synthetic Ferritins. Nanobiomedical Applications
	Chairman: Imre Tóth (Debrecen, Hungary)	Chairman: Virtudes Moreno (Barcelona, Spain)
17.30 – 17.50	O11: Berthold Kersting (Leipzig, Germany): Clathrates Based on Macrocyclic Coordination Compounds	O15: Jozef Sima (Bratislava, Slovakia): Redox Properties of Iron(III) Kojato Complexes
17.50 – 18.10	O12: Carlos Platas-Iglesias (Coruna, Spain): Molecular Recognition of Sugars by Lanthanide Complexes Containing Phenylboronic Acid Functions	O16: Snezana D. Zaric (Belgrade, Serbia): Noncovalent Interactions in Metalloproteins
18.10 – 18.30	O13: Norah Barba-Behrens (Coyoacan, Mexico): Benzazole Coordination Compounds with Transition Metal Ions on Tri- and Penta-cyclic Aromatic Systems. Structure and Biological Relevance	O17: Péter Forgó (Eger, Hungary): Analysis of Natural Bioactive Peptides by Applying Novel HPLC-methods and Stabilizing Metals
18.30 – 18.50	O14: Astrid van der Meer (Delft, The Netherlands): Assessment of the Kinetic Stability of ML, MHL and MH ₂ L Complexes of ¹⁷⁷ Lu-DOTA-octreotate Complexes by Free Ion Selective Radiotracer Extraction (FISRE)	O18: Terézia Szabó-Plánka (Szeged, Hungary): Cu(II) Complexes of Coumarin-derived Schiff Bases with anti- <i>Candida</i> Activity – Equilibrium Studies in Solution

27th of September, 2009 (Sunday)

8.40 – 9.25	Lecture Hall – A	
	L5: Roger Alberto (Zurich, Switzerland): Organometallic Complexes of the Mn-Triad in Molecular Imaging and Therapy Chairman: Ferenc Joó (Debrecen, Hungary)	
	Lecture Hall – A	Lecture Hall - B
	Chairman: Milos Djuran (Kragujevac, Serbia)	Chairman: József Kaizer (Veszprém, Hungary)
9.30 – 10.00	S9: Peter J. Sadler (Warwick, UK): Photoactivated Metal Anticancer Complexes	S11: Liangnian Ji (Guangzhou, China): Studies of Sequence-dependent B/Z DNA Conformational Switching and Other Biological Functions by Ru(II) Polypyridyl Complexes
10.00 – 10.30	S10: Roland K.O. Sigel (Zurich, Switzerland): Controlling Folding of Large RNAs by Divalent Metal Ions and Metal Ion Complexes	S12: Béla Gyurcsik (Szeged, Hungary): Artificial Metallonucleases for Gene Therapy
10.30 – 10.50	<i>Coffee break</i>	
	Lecture Hall – A	Lecture Hall - B
	Chairman: Enzo Alessio (Trieste, Italy)	Chairman: Lage Pettersson (Umea, Sweden)
10.50 – 11.10	O19: Celine J. Marmion (Dublin, Ireland): Novel Platinum Drug Candidates with a Mechanism of Action and Cytotoxicity Profile Different to Classical Platinum Drugs	O22: Milan Melnik (Bratislava, Slovakia): Purine Alkaloids and Their Biomedical Activities
11.10 – 11.30	O20: Mauro Ravera (Alessandria, Italy): Relationship Between Cytotoxicity and Physico-chemical Parameters in a Series of Pt(IV) Complexes	O23: Attila Kiss (Eger, Hungary): Revealing Characteristics of Interaction Between Metals in Soils and Pesticide Degradates
11.30 – 11.50	O21: Giovanni Natile (Bari, Italy): Mechanistic Insights in the Cellular Uptake and Processing of Cisplatin and Related Compounds	O24: Zoltán Murányi (Eger, Hungary): Speciation Analysis of Biologically Available Metal Content of Distinctive Foodstuffs
11.50 – 14.00	BREAK	

Lecture Hall – A	
14.00 – 14.45	L6: Susan J. Berners-Price (Perth, Australia): Gold-Based, Mitochondria-Targeted Chemotherapeutics Chairman: Peter J. Sadler (Warwick, UK)
	Lecture Hall – A
	Lecture Hall - B
	Chairman: Peter Comba (Heidelberg, Germany)
14.50 – 15.20	S13: Seth M. Cohen (San Diego, US): Fragment Based Approaches to Metalloprotein Inhibitors
15.20 – 15.50	S14: Kevin B. Nolan (Dublin, Ireland): Hydroxamate Inhibitors of the Peroxidase and Cyclooxygenase Sites of Prostaglandin-H-Synthase
15.50 – 16.10	<i>Coffee break</i>
	Chairman: Eva Freisinger (Zurich, Switzerland)
16.10 – 16.30	O26: Zong-Wan Mao (Guangzhou, China): Design of Metalloenzyme Models with Weak Interaction Function
16.30 – 16.50	O27: Andrea Scozzafava (Florence, Italy): Characterization of Oxidative Enzymes and Their Application in Biodegradation Processes
16.50 – 17.10	O28: Yuichi Shimazaki (Ibaraki Univ., Japan): Characterization of One-Electron Oxidized Cu(II)-salen Type Complexes
	Chairman: Berthold Kersting (Leipzig, Germany):
	O29: Zsolt Valicsek (Veszprem, Hungary): Possible application of Out-of-Plane Metalloporphyrins in Artificial Photosynthesis
	O30: Ana Budimir (Zagreb, Croatia): Acid-Base Properties of Manganese N-alkylpyridyl-porphyrins in Aqueous Media
	O31: Enrique Garcia-España (Valencia, Spain): Metallic Polyaza Scorpion-Like Complexes as Superoxide Dismutase Mimics
19.30 20.45	<i>Social programs:</i> Concert in the Music Hall of the University Wine Tasting Party in the Main Hall of the University

28th of September, 2009 (Monday)

	Lecture Hall – A	
8.40 – 9.25	L7: Silvio Aime (Torino, Italy): Metal Based Probes for MR-Molecular Imaging Investigations Chairman: Ernő Brücher (Debrecen, Hungary)	
	Lecture Hall – A	Lecture Hall - B
	Chairman: Glenn Millhauser (Santa Cruz, US)	Chairman: Roger Alberto (Zurich, Switzerland)
9.30 – 10.00	S16: Helmut Sigel (Basel, Switzerland): The Structuring Effect of a Decreasing Solvent Polarity. Binary and Ternary Complexes of Guanosine 5'-Diphosphate (GDP ³⁻)	S18: Éva Tóth (Orleans, France): Towards Enzymatically Activated PARACEST Agents and Bimodal NIR Optical and MRI Probes
10.00 – 10.30	S17: Franc Meyer (Göttingen, Germany): New Turns in Fe/S-Cluster Chemistry: Unusual Protein Active Sites and Synthetic Models	S19: Wojciech Bal (Warsaw, Poland): Nickel(II)-Related Peptide Bond Hydrolysis
10.30 – 10.50	<i>Coffee break</i>	
	Lecture Hall – A	Lecture Hall - B
	Chairman: Giovanni Natile (Bari, Italy)	Chairman: Andrea Scozzafava (Florence, Italy)
10.50 – 11.10	O32: Willy Nerdal (Bergen, Norway): Cisplatin Interaction with Phosphatidylserine Bilayer Studied by ¹⁵ N{ ³¹ P} Rotational-Echo Double Resonance NMR	O36: Joao Costa Pessoa (Lisbon, Portugal): Interaction of Vanadium and Vanadium Complexes with Human Serum Transferrin in the Presence of Fe ^{III}
11.10 – 11.30	O33: Malgorzata Brindell (Krakow, Poland): Human Serum Albumin: Target for Anti-metastatic (ImH)[trans-Ru ^{III} Cl ₄ (dmsO)(Im)] complex or its Reduced Form	O37: Pascale Delangle (Grenoble, France): Engineering of Peptide-based Ligands of Lanthanide Ln ³⁺ Ions
11.30 – 11.50	O34: Jiri Kozelka (Paris, France): Cisplatin Adducts on a GGG Sequence of DNA Studied by NMR Spectroscopy and Molecular Dynamics Simulations	O38: Joao D.G. Correia (Sacavem, Portugal): Rhenium and Technetium Complexes with N ⁰ -substituted L-Arginine Analogues as Potential Probes for Inducible Nitric Oxide Synthase
11.50 – 12.10	O35: Anita Abedi (Tehran, Iran): Synthesis, Characterization and Crystal Structure Determination of New Suggested Anticancer Drugs, Gold(III) and Pt(IV) Complexes: [Au(dm4bit)Cl ₃], [Au(4bit)Cl ₂][AuCl ₄] and [Pt(4bit)Cl ₄]	O39: Fabio Zobi (Zurich, Switzerland): Ligand-Mediated Decarbonylation (LMD) as a General Synthetic Route to Rhenium(II) Dicarbonyl Complexes Acting as Bio-Inducible Redox Switches

12.10 – 14.00	<i>BREAK</i>	
14.00 – 15.40	Poster Session II. (including coffee break)	
	Lecture Hall – A	Lecture Hall - B
	Chairman: Liang-Nian Ji (Guangzhou, China)	Chairman: Franc Meyer (Gottingen, Germany)
15.40 – 16.00	O40: Muhammad Hanif (Vienna, Austria): <i>In vitro</i> Anticancer Activity and Metabolization of Organometallic Ruthenium and Osmium Complexes with Carbohydrate-Based Ligands	O43: Andrea Erxleben (Galway, Ireland): Phosphate Diester Hydrolysis Mediated by Titanocene Dichloride
16.00 – 16.20	O41: Bruno Therrien (Neuchatel, Switzerland): Supramolecular Cubes as Selective Quadruplex DNA Binders	O44: Elzbieta Gumienna-Kontecka (Wroclaw, Poland): Dizinc(II) Pyrazolate Complexes as Functional Models of Metallophosphatases
16.20 – 16.40	O42: Nicola Margiotta (Bari, Italy): Activation of Antitumoral Platinum Prodrugs for the Local Treatment of Bone Tumors by Inclusion in Bioactive Inorganic Matrices	O45: Maria Antonietta Zoroddu (Sassari, Italy): Spectroscopic Study of Cu(II) Interaction with a Multi-Histidine Peptide Fragment
	Lecture Hall – A	
16.45 – 17.30	L8: Vincent L. Pecoraro (Ann Arbor, US): Development of Heavy Metal Binding Peptides and Mimics for Metallopeptides Chairman: Jan Reedijk (Leiden, The Netherlands)	
17.30 – 17.40	Merce Capdevile (Barcelona, Spain): ISABC 11 (2011- Barcelona)	
17.40 – 17.50	Closing Remarks	
	<i>BREAK</i>	
20.00 –	<i>Closing Banquet</i> (Lecture Hall - A)	