

Sunday, July 15					
19:00 – 22:00 Welcome Reception at the Vienna City Hall					
Monday, July 16					
08:30 – 09:20 Plenary Lecture, PL 3, Votivkirche		Lecture by Hartmut Michel (Nobel Laureate)			
09:20 – 09:50 Coffee Break					
A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)	
Metalloproteins - Metallothionein and iron sulfur proteins 09:50 – 12:20	Metals in medicine – Platinum 1 09:50 – 12:00	Bioinspired coordination chemistry 1 10:00 – 12:40	Metal interactions with DNA/RNA/nucleotides and other biomolecules 10:00 – 12:40	Electron transfer and radicals 1 09:50 – 12:20	
12:30 – 13:30 Lunch					
Metalloproteins – Non heme iron proteins 13:30 – 16:00	Metals in medicine – Cu, Re, Fe, Mn, B 13:40 – 16:00	Bioinspired coordination chemistry 2 13:30 – 15:40	Metal trafficking (transport and regulation) – Fe 13:40 – 15:40	Biophysical and theoretical calculations 1 13:40 – 16:00	
16:00 – 16:30 Coffee Break					
Metalloproteins – Copper proteins 1 16:30 – 18:20	Metals in medicine – V, Ag, Cu, Fe 16:30 – 18:20	Bioinspired coordination chemistry 3 16:40 – 17:40	Metals in medicine – Organometallics 16:40 – 18:00	Biophysical and theoretical calculations 2 16:40 – 18:20	
20:00 – 22:00 Conference Concert in the Alte Aula of the Austrian Academy of Science					
Tuesday, July 17					
08:30 – 09:20 Plenary Lecture, PL 5, Votivkirche		Lecture by Amy Rosenzweig			
09:20 – 09:50 Coffee Break					
A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)	F (HS32)
Metalloproteins - Copper proteins 2 09:50 – 12:30	Metals in medicine – Anticancer 09:50 – 12:20	Bioinspired coordination chemistry 4 10:00 – 12:20	Bioinspired catalysis 1 09:50 – 12:20	Bioineralization 10:00 – 11:40	Metal sensors in biology 1 10:00 – 11:40
12:30 – 13:30 Lunch					
Metalloproteins – Hydrogenase and nitrogenase 13:30 – 15:50	Metals in medicine – Platinum 2 13:40 – 15:50	Metal trafficking (transport and regulation) – Cu, Zn 13:30 – 16:00	Metal interactions with DNA/RNA/nucleotides and other biomolecules - Nucleobases 13:30 – 16:00	Bioinspired catalysis 2 13:30 – 15:40	Metal sensors in biology 2 13:40 – 15:00
16:00 Poster Session (beer, wine and snacks will be served also after the official end of the session from 18:00-21:00)			19:00 – 22:00 IOC Business Dinner (members only)		

Wednesday, July 18				
08:30 – 09:20 Plenary Lecture, PL 1, Votivkirche		Memorial lecture in honor of the late Antonio Xavier by Ivano Bertini		
09:20 – 10:00 Coffee Break				
10:00 – 10:30 SBIC General Meeting				
A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
Metalloproteins – Ni-, Co-, Mn-proteins 10:30 – 13:00	Metals in medicine – MRI, photo 10:30 – 13:00	Bioinspired coordination chemistry 5 10:30 – 13:10	Metal interactions with DNA/RNA/nucleotides and other biomolecules – RNA, DNA 10:30 – 13:20	Bioinspired catalysis 3 10:30 – 12:20
13:20 – 14:20 Lunch				
Free afternoon				
Thursday, July 19				
08:30 – 09:20 Plenary Lecture, PL 4, Votivkirche		Lecture by Isabel Moura		
09:20 – 09:50 Coffee Break				
A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
Metalloproteins – Mo-, W-proteins 09:50 – 12:30	Metals in medicine – Brain, rescue 09:50 – 12:20	Bioinspired coordination chemistry 6 09:50 – 12:20	Electron transfer and radicals 2 10:00 – 12:20	Metal-based environmental chemistry & Bioinorganic prebiotic chemistry 10:00 – 12:10
12:30 – 13:30 Lunch				
Metalloproteins – Heme iron proteins 1 13:40 – 16:00	Metals in medicine – Si, Fe, Pt, Ru 13:30 – 16:00	Metal trafficking (transport and regulation) – Ni, V, Cd 13:40 – 15:40	Metal interactions with DNA/RNA/nucleotides and other biomolecules – Anticancer complexes 13:30 – 16:00	Bioinspired catalysis 4 13:40 – 16:00
16:00 Poster Session (beer, wine and snacks will be served also after the official end of the session from 18:00-21:00)				
Friday, July 20				
08:30 – 09:20 Plenary Lecture, PL 2, Votivkirche		Lecture by Shunichi Fukuzumi		
09:20 – 09:50 Coffee Break				
A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
Metalloproteins – Heme iron proteins 2 09:50 – 12:10	Metals in medicine – Non-platinum 09:50 – 11:50	Bioinspired coordination chemistry 7 09:50 – 12:30	Electron transfer and radicals 3 09:50 – 11:50	Bioinorganic clusters and nanoparticles 09:50 – 11:10
12:30 – 13:30 Lunch				
13:30 – 14:10 Votivkirche	Helvetica Chimica Acta Poster Award and Chemistry & Biodiversity Poster Award			
14:10 – 15:20 Votivkirche	1 st SBIC Early Career Award and SBIC Early Career Award Lecture by Yi Lu (Plenary Lecture AL1)			
15:20 Closing Ceremony and Announcement of ICBC 14				
18:30 - 23:00 Heurigen Evening (Pick-up 17:30 at the University)				

Sunday, July 15, Evening Program

19:00 – 22:00

Welcome Reception
at the Vienna City Hall

Monday, July 16, Morning Program

08:30 – 09:20 Plenary Lecture, **PL 3**, Votivkirche
Chair **Bernt Krebs**

Hartmut Michel Cytochrome c Oxidase, Structure Known, Mechanism Elusive

09:20 – 09:50 **Coffee Break**

Lecture Hall

A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
Metalloproteins - Metallothionein and iron sulfur proteins Chair Marc Fontecave, Milan Vašák	Metals in medicine – Platinum 1 Chair Nicholas Farrell, Zijian Guo	Bioinspired coordination chemistry 1 Chair Etelka Farkas, Nadia Mösch-Zanetti	Metal interactions with DNA/RNA/nucleotides and other biomolecules Chair Carla Da Costa, Kentaro Tanaka	Electron transfer and radicals 1 Chair John Dawson, Anabella Ivancich
09:50, KL16 M. Vašák Zinc and copper in the brain: Unravelling the role of metallothionein-3	09:50, KL02 N. Farrell Transplatinum Compounds as Anticancer Agents. A Real Possibility ?	10:00, SL071 E. Farkas Structure based differences between the metal ion selectivity of two siderophores Desferrioxamine B and Desferricoprogen	10:00, SL057 C. P. Da Costa Role players in hairpin ribozyme catalysis	09:50, KL29 J. H. Dawson The Mechanism of Oxidative Halophenol Dehalogenation by Heme-Containing Peroxidases
10:20, SL034 E. Freisinger Plant MTs - long neglected members of the metallothionein superfamily	10:20, SL021 A. Odani Anionic Antitumor Pt(II) Complexes with High Affinity to Hydroxyapatite	10:20, O074 A. K. Duhme-Klair Siderophore analogues as molecular probes and sensors	10:20, SL055 V. Bregadze Metal Induced Defects in DNA. New Methodological Approaches and Estimation of the Risk Factor of Point Mutations	10:20, SL105 A. Ivancich Tryptophan radicals as catalytic intermediates in heme peroxidases
10:40, SL033 M. Fontecave Biosynthesis of Iron-Sulfur Clusters: an essential iron-sulfur protein for respiratory metabolism in Escherichia coli	10:40, SL013 Z. Guo Antitumor and Nuclease Activities of Multinuclear Metal Complexes	10:40, O079 R. J. Klein Gebbink Bis(1-alkylimidazol-2-yl)propionates as close mimics of the 2-His-1-carboxylate facial triad: structural and functional modeling of non-heme iron enzymes	10:40, SL056 M. Chikira DNA-fiber EPR spectroscopy as a tool to study metal complex DNA interaction	10:40, O117 K. L. Bren Heme pocket mobility tunes cytochrome c redox potential
11:00, SL035 J. Fritz-Steuber Structure and function of the Na ⁺ - translocating NADH dehydrogenase from Vibrio cholerae, a flavo-FeS redox pump	11:00, O001 J. R. Aldrich-Wright Novel platinum(II)-based anticancer drugs; metallointercalators and DNA sequence specific agents	11:00, O083 A. E. Mijovilovich K β -detected high resolution xanes in models of catechol oxygenase	11:00, SL061 J. C. Lee Copper(II) binding to α -synuclein, the Parkinson's protein	11:00, O118 S. B. Colbran Radical models for the CuB centre in heme-copper oxidases

KL = Keynote Lecture, SL = Session Lecture, O = Oral Presentation

Monday, July 16, Morning Program (continued)				
A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
11:20, O029 H. Ding Biogenesis of iron-sulfur clusters and intracellular iron metabolism under oxidative stress conditions	11:20, O022 N. I. Shtemenko The novel Rhenium and Platinum antitumor system	11:20, O081 T. Kojima Modulation of Characteristics of Ruthenium-Coordinated Heteroaromatic Coenzymes	11:20, SL067 K. Tanaka Programmable metal array in DNA duplex	11:20, O119 S. de Vries Kinetics and function of a new Tryptophan Neutral Radical in Cytochrome c Oxidase from <i>Paracoccus denitrificans</i>
11:40, O030 EMBO Young Investigator Lecture O. Einsle Assignment of individual metal redox states in metalloproteins by crystallographic refinement at multiple X-ray wavelengths	11:40, O009 F. Huq Studies on new tumour active platinum compounds	11:40, O068a W. E. Antholine Addition of DNA to Cr(VI) and Cytochrome b5 Containing Proteoliposomes Leads to Formation of a Cr(III) Complex	11:40, O056 T. Ihara Colorimetric SNP genotyping using cooperative formation of lanthanide complexes with split DNA probes	11:40, O121 I. Ivanovic-Burmazovic Reactions of iron and manganese heme and non-heme complexes with superoxide and cytochrome c. Why indirect SOD assays should not be used.
12:00, O038 P. Lanciano The S = 3/2 [4Fe-4S] ⁺ cluster of the nitrate reductase A (NarGH) from <i>Escherichia coli</i> : Characterisation and implication during the maturation pathway of the complex		12:00, O084 N. C. Mösch-Zanetti Molybdenum dioxo complexes with nitrogen-based ligand systems in OAT reactions	12:00, O063 B. Spingler Sensing nanomolar concentrations of copper via induction of Z-DNA	12:00, O124 E. L. Raven Exploring the involvement of radical processes in heme peroxidase structure and catalysis
		12:20, O094 C. G. Young Models for the Mo/Cu carbon monoxide dehydrogenase	12:20, O066 Y. Yamamoto Structural and functional properties of heme-DNA complex	
12:30 – 13:30 Lunch				

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Monday, July 16, Afternoon Program

Lecture Hall

A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
<p>Metalloproteins - Non heme iron proteins Chair Robert Hausinger, John Lipscomb</p>	<p>Metals in medicine - Cu, Re, Fe, Mn, B Chair Lena Ruiz-Azuara, Anne Vessieres</p>	<p>Bioinspired coordination chemistry 2 Chair Osamu Yamauchi, Guillermo Mendoza-Díaz</p>	<p>Metal trafficking (transport and regulation) – Fe Chair Isabelle Schalk, Robert Scott</p>	<p>Biophysical and theoretical calculations 1 Chair Dirk Deubel, Chebrolu Rao</p>
<p>13:30, KL09 R. P. Hausinger Fe(II)/2-oxoglutarate-dependent hydroxylases</p>	<p>13:40, SL023 L. Ruiz-Azuara A new type of Anticancer copper base drugs, Casiopeínas: Activity and Mechanisms of action</p>	<p>13:30, KL24 O. Yamauchi Weak interactions and reactivities of amino acid side chain groups around the metal center</p>	<p>13:40, SL097 I. Schalk Membrane Ferric-Siderophore Trafficking in Gram-Negative Bacteria: The Fate of Ferric-Pyoverdine Followed by Real Time Fluorescent Resonance Energy Transfer in <i>Pseudomonas aeruginosa</i>.</p>	<p>13:40, SL120 M. Monajjemi QM/MM Model Study on Properties and Structure of Metallo trans membrane protein of AQP4 : Comparison of Energy and NBO and NMR Chemical Shift</p>
<p>14:00, O050 G. D. Straganz The 3-His ligated nonheme Fe(II)-centre in Diketone Dioxygenase Dke1: probing the metalcentre's intrinsic reactivity and the role of the metal ion's second coordination sphere in catalysis.</p>	<p>14:00, O006 V. E. Fedorov Rhenium cluster complexes as promising metal drugs for cancer therapeutics and diagnostics</p>	<p>14:00, SL075 G. Mendoza-Díaz Imidazole and pyrazole based ligands and their metal complexes as potential biomimetic systems.</p>	<p>14:00, SL098 R. A. Scott Transcriptional response to environmental iron/sulfur levels in a model archaeon</p>	<p>14:00, SL119 D. V. Deubel Mechanism of Guanine Binding to Dirhodium Tetracarboxylate Anticancer Complexes</p>
<p>14:20, O040 J. D. Lipscomb Structures of intermediates in the oxygen activation mechanism of extradiol dioxygenases</p>	<p>14:20, SL028 A. Vessieres Activation of the cytotoxicity of phenol derivatives by a ferrocenyl antenna. Structure activity relationship</p>	<p>14:20, O070 N. Bhojak Microwave assisted synthesis characterisation and antimicrobial activity of Cu(II), Mn(II) and Ni(II) complexes of acid amide derived from heterocyclic amines</p>	<p>14:20, O110 M. K. Johnson HscA and HscB stimulate [2Fe-2S] cluster transfer from IscU to apo-ferredoxin in an ATP-dependent reaction</p>	<p>14:20, O142 N. Re A theoretical investigation of the hydrolysis and reduction of NAMI-A-type ruthenium complexes</p>
<p>14:40, O043 L. M. Mirica Mechanistic studies of the ethylene-forming enzyme ACC oxidase</p>	<p>14:40, O019 G. Pratviel Targeting quadruplex DNA with metalloporphyrins for telomerase inhibition</p>	<p>14:40, O071 N. Burzlaff Tripodal N,N,O-ligands for metalloenzyme models</p>	<p>14:40, O113 I. Michaud-Soret Structural changes of the <i>Escherichia coli</i> Fur during metal dependent dimerization and activation</p>	<p>14:40, O143 N. Safari Theoretical investigations of the hydrolysis pathway of verdoheme to biliverdin, effect of axial ligand</p>
<p>15:00, O042 A. Maréchal NO-Synthases as a direct source of oxidative and nitrative stress.</p>	<p>15:00, O020 L. M. Rendina New boronated agents for Boron Neutron Capture Therapy</p>	<p>15:00, O072 E. N. Danilovtseva Condensation of silicic acid in unsaturated solutions under the action of zinc(II) - polyamine complex</p>	<p>15:00, O114 A. Nagasawa Formation and Solution Behavior of Transition Metal Complexes with Mugineic Acid, and the Permeation Through Membrane</p>	<p>15:00, O144 H. Tai Computational Studies of the Coordination Stereochemistry, Bonding, and Metal Selectivity of Mercury</p>

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Monday, July 16, Afternoon Program (continued)

A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
<p style="text-align: center;">15:20, O046</p> <p>V. Nivière High resolution RX structure of iron(III)-(hydro)peroxy intermediates in superoxide reductase SOR</p>	<p style="text-align: center;">15:20, O010</p> <p>J. A. Ioppolo Dicarba-closo-dodecaborane(12) derivatives of phosphonium salts: Easy formation of nido-carborane phosphonium zwitterions</p>	<p style="text-align: center;">15:20, O091</p> <p>J. Seiffert An "Asymmetrised" Tetrapodal Pentadentate Coordination Cap</p>	<p style="text-align: center;">15:20, O115</p> <p>A. A. Pakchung Siderophores from Cold-adapted Antarctic Bacteria</p>	<p style="text-align: center;">15:20, O145</p> <p>K. Yoshizawa Computational approach to catalytic mechanism for alkane hydroxylation by metalloenzymes</p>
<p style="text-align: center;">15:40, O047</p> <p>J. V. Rodrigues Investigating the role of a highly conserved glutamate in reaction intermediate of superoxide reductase</p>	<p style="text-align: center;">15:40, O011</p> <p>N. T. Kuznetsov Novel synthetical approaches for design of BNCT compounds based on BnHn²⁺ biologically active derivatives</p>			<p style="text-align: center;">15:40, O141</p> <p>C. P. Rao Glyco-conjugates: Experimental and computational studies of the recognition of ions and molecules, and binding with lectins and inhibition of glycosidase activity</p>
<p>16:00 – 16:30 Coffee Break</p>				

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Monday, July 16, Afternoon and Evening Program

Lecture Hall				
A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
Metalloproteins - Copper proteins 1 Chair Henryk Kozłowski , Vincent Pecoraro	Metals in medicine - V, Ag, Cu, Fe Chair Dieter Rehder , Simon Silver	Bioinspired coordination chemistry 3 Chair Tsuyoshi Matsumoto , Charles Riordan	Metals in medicine - Organometallics Chair Peter Sadler , Paul Dyson	Biophysical and theoretical calculations 2 Chair Frank Neese , Graeme Hanson
16:30, KL11 H. Kozłowski Copper Prion Interactions. Specificity from mammalians to Fishes	16:30, KL05 D. Rehder Vanadium in nature and medicine	16:40, SL074 T. Matsumoto Dinuclear Nickel complexes modeling acetyl-CoA synthase	16:40, SL024 P. J. Sadler Organometallic Anticancer Complexes	16:40, SL121 F. Neese High-valent intermediates in nonheme iron enzymes: Combining spectroscopy and modern quantum chemistry
17:00, O025 R. F. Abdelhamid Resonance Raman Spectroscopic Studies on the Alkaline Transition of a Blue Copper Protein, Pseudoazurin and Its M16X Variants	17:00, O021 H. Sakurai Antidiabetic and Antimetabolic Syndrome Oxovanadium(IV)- and Zinc-Allixinate Complexes: Molecular Action Mechanism in Adipocytes	17:00, SL069 N. Barba-Behrens Chiral coordination compounds with aminoalcohol derivatives - Stereoselectivity, reactivity and supramolecular arrangements	17:00, SL010 P. J. Dyson Organometallic ruthenium anticancer drugs: towards targeted chemotherapy	17:00, O138 C. Berthomieu Metal-ligand vibrations in proteins detected by Far-IR difference spectroscopy: Fe- NPyr and Fe-NHis/Im IR modes in cytochrome c and the related model microperoxidase

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Monday, July 16, Afternoon and Evening Program (continued)

A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
17:20, SL040 T. Kohzuma Weak Interaction Regulates the Active Site Structure of a Blue Copper Protein, Pseudoazurin	17:20, SL027 S. Silver Bacterial silver resistance: molecular biology and uses of silver as biocides in burn and wound dressings	17:20, O089 C. G. Riordan Methyl Transfer to Nickel(0): Implications for ACS Catalysis	17:20, O012 H. Liu Interactions of organometallic ruthenium arene anticancer complexes with DNA	17:20, O139 G. R. Hanson Application of CW and Pulsed EPR, MoSophe and DFT Calculations in Unravelling the Electronic Structure of the Molybdenum(V) Centres and Sulfur Centered Molybdopterin radical in Dimethylsulfoxide Reductase
17:40, O051 A. W. Tepper Monitoring the redox state of the laccase type-1 and Cu ₂ copper centres by fluorescence	17:40, SL019 M. Melnik Copper(II) Complexes as perspective anti-inflammatory agents		17:40, O013 B. T. Loughrey The design and synthesis of biologically active cationic RuCp* arene sandwich complexes	17:40, O140 M. L. Kirk Spectroscopic and electronic structure studies of the molybdenum hydroxylases: understanding the multiple roles of the Mo-sulfido unit in catalysis
18:00, SL038 S. Hirota Oxygen Binding Properties of Carcinus aestuarii Hemocyanin Revealed by Laser Flash Photolysis	18:00, O015 B. E. Mann Some new CO releasing molecules for possible pharmaceutical applications			18:00, O (P465) M. Orio DFT study of gav (average g value) among [2Fe-2S] clusters. Impact of localization (trapping forces) and delocalization (double-exchange) factors on the {gav} values of (i) plant-type Ferredoxins and Rieske centers (and related Cys / His / Ser mutants), ...
20:00 – 22:00 Conference Concert in the Alte Aula of the Austrian Academy of Science				

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Tuesday, July 17, Morning Program

08:30 – 09:20 Plenary Lecture, PL 5 , Votivkirche Chair Larry Que		Amy Rosenzweig Copper and biological methane oxidation			
09:20 – 09:50 Coffee Break					
Lecture Hall					
A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)	F (HS32)
Metalloproteins - Copper proteins 2 Chair David Dooley , Yoshihito Watanabe	Metals in medicine - Anticancer Chair Susan Berners-Price , Michael Hannon	Bioinspired coordination chemistry 4 Chair Wolfgang Kaim , Joshua Telser	Bioinspired catalysis 1 Chair Marcetta Darensbourg , Franc Meyer	Biom mineralization Chair Peter Behrens , Helga Lichtenegger	Metal sensors in biology 1 Chair Roland Krämer , Nils Metzler-Nolte
09:50, KL13 V. L. Pecoraro Discriminating Heavy Metal Binding to De Novo designed peptides using spectroscopy and x-ray crystallography	09:50, KL01 S. J. Berners-Price The mitochondrial cell death pathway as a target for gold and other metal-based antitumour compounds	10:00, SL073 W. Kaim Metal bonding by thioether-S of methionine and of related ligands	09:50, KL26 M. Y. Darensbourg The Acetyl coA Synthase Paradigm for Nickel-dithiolates as Ligands in Organometallic Chemistry and Catalysis	10:00, SL110 P. Behrens Polyamine-Silica Interactions: A Biomimetic Model System for the Biom mineralization in Diatoms	10:00, SL115 R. Krämer Mimicking nature's signal cascades for amplified detection of biomolecular targets
10:20, SL032 D. M. Dooley Mechanism(s) of the re-oxidation reactions of substrate-reduced amine oxidases with dioxygen	10:20, SL015 M. Hannon Anti-cancer activity and unprecedented modes of DNA recognition achieved by metallo-supramolecular cylinders	10:20, O068 S. Ahmad Silver(I) complexation with glutathione and tetramethylthiourea	10:20, SL085 F. Meyer Bioinspired oxidation reactions with highly preorganized dicopper complexes	10:20, SL111 H. C. Lichtenegger Heavy metal containing worm teeth and self-assembled materials from the lab - nanostructure determination with synchrotron radiation techniques	10:20, SL116 N. Metzler-Nolte Solid Phase Synthesis and Biological Applications of Metal-PNA Bioconjugates
10:40, O032 H. Fujii Role of highly conserved three-histidines ligand environment of type-2 copper site in copper containing nitrite reductase	10:40, SL022 A. Rompel XAS investigation of the Ga coordination sphere in solution and in cancer cells treated with KP46.	10:40, O069 I. Artaud Does the post-translational oxidation of Cys-X-Cys sequence within proteins to disulfide-S-oxides provide a cavity to trap metal ions?	10:40, SL087 R. Mukherjee Chemical Modeling of Tyrosinase and Catechol Oxidase: Some Recent Results	10:40, O130 N. E. Le Brun The core nucleation site of Escherichia coli bacterioferritin	10:40, SL117 J. A. Rodriguez Navarro Metallacalixarenes: Sensing of biorelevant anions and non-covalent DNA binding properties
11:00, SL047 R. Pierattelli Towards a protocol for solution structure determination of copper(II) proteins through protonless ¹³ C direct-detection NMR	11:00, O007 M. D. Hall Resistance is useless: the mechanism of action and development of the anti-cancer thiosemicarbazone NSC73306	11:00, O077 F. Jalilvand Mercury(II) complex formation with cysteine, penicillamine and glutathione	11:00, SL088 A. J. Pombeiro Bioinspired transition metal systems for the mild catalytic oxidation of light alkanes	11:00, O131 B. F. Matzanke Pathway and kinetics of magnetite biosynthesis, magnetosome-chain formation and the role of ferritin in Magnetospirillum gryphiswaldense	11:00, SL118 K. Severin Organometallic Complexes as Sensors for Biologically Interesting Analytes

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Tuesday, July 17, Morning Program (continued)

A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)	F (HS32)
11:20, SL037 J. Hirose The EPR spectra of the Enzyme-Substrate (Lys-Ala-Naphthylamide) Complex in Cu(II)-Dipeptidyl Peptidase III	11:20, SL014 N. Hadjiliadis Synthesis, structural characterization and biological study of new Organotin(IV), Silver(I) and Antimony(III) complexes	11:20, O076 H. Hsu Bioinspired chemistry of vanadium in S-rich ligation environment	11:20, O097 P. Gamez Selective aerobic oxidation of primary alcohols mediated by a model complex of galactose oxidase	11:20, O132 E. C. Theil Peptides from a Combinatorial Library Regulate Ferritin Iron	11:20, O134 S. Aono The mechanism of CO sensing in the heme-based CO sensor CooA revealed by the crystal structure of the exogenous ligand bound form
11:40, SL042 S. Mazumdar Conformational stability of the Cu _A center of cytochrome oxidase	11:40, O008 M. M. Harding Increased Cellular Uptake of the Antitumour Metallocene Molybdocene Dichloride	11:40, O075 P. Holland Relating the structure and reactivity of low-coordinate iron-sulfide complexes to the cofactors of nitrogenase enzymes	11:40, O102 T. C. Lau Lewis Acids Activated Oxidation of Alkanes by Metal-Oxo Species		
12:00, KL17 Y. Watanabe Construction of organometalloproteins: A new approach for bioinorganic chemistry	12:00, SL007 A. M. Da Costa Ferreira Novel Oxindole-Schiff Base Copper(II) Complexes as Potential Metallopharmaceuticals	12:00, O092a J. Telser Vanadium(III) thiolate complexes as nitrogenase models: Spectroscopic investigation by high-frequency and -field EPR (HF-EPR) and optical and magnetic techniques	12:00, SL080 L. Gasque Catecholase activity of di and tetra-nuclear copper complexes of imidazole derived ligands.		
12:30 – 13:30 Lunch					

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Metalloproteins - Hydrogenase and nitrogenase Chair Fraser Armstrong, Brian Hoffman	Metals in medicine - Platinum 2 Chair Trevor Hambley, Giovanni Natile	Metal trafficking (transport and regulation) - Cu, Zn Chair Walter Schaffner, Anthony Wedd	Metal interactions with DNA/RNA/nucleotides and other biomolecules - Nucleobases Chair Bernhard Lippert, Helmut Sigel	Bioinspired catalysis 2 Chair Dimitri Coucouvanis, Christine McKenzie	Metal sensors in biology 2 Chair Christoph Fahrni, David Petering
13:30, KL08 F. Armstrong Electrocatalytic hydrogen cycling by hydrogenases in the presence of O ₂ : functional challenges for technology	13:40, SL018 J. Kozelka Intramolecular competition between carboxylate and phosphonate for Pt(II) studied with the aid of a novel tridentate carboxylato-thioether-phosphonate ligand	13:30, KL28 W. Schaffner Copper homeostasis in insects by complex interplay of import, storage and behavioral avoidance	13:30, KL17b B. Lippert Molecular architectures with pyrimidine nucleobases and cis-a ₂ MIII (M = Pt, Pt; a = NH ₃ or a ₂ = diamine)	13:30, KL25 D. Coucouvanis Exploration and analyses of possible pathways for the activation and reduction of dinitrogen by nitrogenase	13:40, O135 C. J. Fahrni Rational Design of Fluorescent Zn(II)-Sensors for Two-Photon Excitation Microscopy
14:00, O028 A. V. Dias Structural & Biological Analysis of the Metal Sites from the Escherichia coli Hydrogenase Accessory Protein HypB	14:00, O002 R. N. Bose Multiple pathways for cisplatin mediated apoptosis in human ovarian cells	14:00, SL091 C. A. Blindauer The significance of histidine residues in zinc-binding class II metallothioneins from plants and bacteria	14:00, SL053 J. Arpalahti Intramolecular migration of coordinated Pt(II) in the Adenine Ring	14:00, SL081 K. Heinze Polymer-Supported Dioxido-Mo(VI) Complexes as Truly Functional Molybdenum Oxotransferase Model System	14:00, O136 D. H. Petering Imaging Cellular Zinc with TSQ: What is being Imaged?
14:20, O053 J. Zhang The Role of SlyD in Nickel Incorporation in Escherichia coli [NiFe] Hydrogenase Biosynthesis Pathway	14:20, O018 E. C. Pereira-Maia Cytotoxicity and cellular accumulation of platinum(II) compounds of tetracyclines	14:20, SL099 A. Wedd Copper and zinc transport proteins in bacteria and plants	14:20, SL063 L. G. Marzilli Inorganic medicinal and diagnostic agents and analogues. Properties and nucleotide/nucleic acid binding.	14:20, O107 F. Tuczek New Developments in Synthetic Nitrogen Fixation with Molybdenum and Tungsten Phosphine Complexes	14:20, O137 L. Zhang Shining Light on the Metal Center of a Novel Cu-Sensing Repressor from M. Tuberculosis - CsoR

KL = Keynote Lecture, SL = Session Lecture, O = Oral Presentation

Tuesday, July 17, Afternoon Program (continued)

A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)	F (HS32)
14:40, O035 P. L. Hagedoorn Redox properties of the Fe-hydrogenase homologue Nar1 from <i>Saccharomyces cerevisiae</i>	14:40, KL03 T. W. Hambley The Distribution and Biotransformation of Metal Based Anti-Cancer Agents in Cancer Cells and Tumour Models	14:40, O108 P. Chen Single-molecule study of dynamics and mechanism of metal transport and metal regulation	14:40, SL066 H. Sigel Adenine nucleotides and their constituents. Protonations and metal ion complexations	14:40, SL084 C. J. McKenzie Water oxidation catalysis by dinuclear manganese complexes	14:40, O136a E. L. Que Magnetic resonance imaging contrast agents for probing copper oxidation neurobiology
15:00, O045 H. Nakajima Purification and structural analysis of Vanadium Nitrogenase activator in <i>Azotobacter Vinelandii</i>	15:10, SL008 J. C. Dabrowiak Importance of carbonate in the mechanism of action of the platinum drugs.	15:00, O109 M. W. Crowder Probing Zn(II) transport in <i>E. coli</i>	15:00, SL060 L. Ji DNA Intercalation and Photocleavage of Uracil and Guanine Functionalized Polypyridyl Ruthenium(II) Complexes	15:00, O095 E. Anxolabéhère-Mallart Intermediates of water oxidation in the OEC. Chemical access to Mn-peroxo model complexes	
15:20, KL10 B. M. Hoffman Towards the Mechanism of N ₂ Reduction by Nitrogenase	15:30, SL020 G. Natile Insight in the role of proteins in the cellular uptake and processing of cisplatin and related compounds	15:20, O112 W. Meyer-Klaucke Zinc Uptake Regulator FurB from <i>Mycobacterium tuberculosis</i>	15:20, O054 S. Choi Kinetics and Mechanism of the Oxidation of Guanosine Derivatives by Pt(IV) Complexes	15:20, O104 A. Llobet New Ru complexes as functional models of the OEC-PSII: the crucial element towards a solution of today's energy nightmare	
		15:40, O116 D. E. Wilcox Thermodynamics of Cu(I) binding to proteins	15:40, O060 J. Müller An artificial base pair mediated by hydrogen bonding and metal-ion binding		
16:00	Poster Session (Beer, wine and snacks will be served also after the official end of the session from 18:00-21:00)			19:00 – 22:00	IOC Business Dinner (members only)

KL = Keynote Lecture, SL = Session Lecture, O = Oral Presentation

Wednesday, July 18, Morning Program				
08:30 – 09:20 Plenary Lecture, PL 1 , Votivkirche Chair Ken Karlin		Ivano Bertini Metal Ions in the "omics" World Memorial lecture in honor of the late Antonio Xavier		
09:20 – 10:00 Coffee Break				
10:00 – 10:30 SBIC General Meeting (Lecture Hall B – Großer Festsaal)				
Lecture Hall				
A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
Metalloproteins - Ni-, Co-, Mn- proteins Chair Rudolf Thauer , Claudio Luchinat	Metals in medicine - MRI, Photo Chair Enzo Terreno , Malcolm Kenney	Bioinspired coordination chemistry 5 Chair Peter Comba , Lawrence Que, Jr	Metal interactions with DNA/RNA/nucleotides and other biomolecules - RNA, DNA Chair Roland Sigel , Anatoly Zhitkovich	Bioinspired catalysis 3 Chair Kenneth Raymond , Pierre Monnard
10:30, KL15 R. K. Thauer Methyl-coenzyme M reductase and the anaerobic oxidation of methane	10:30, KL07 E. Terreno Paramagnetic nanosized systems as highly-sensitive MRI contrast agents	10:30, KL23 K. Wieghardt Coordination chemistry of high-valent iron - beyond iron(IV)	10:30, KL18 R. K. Sigel Coordination chemistry in a large RNA: The catalytic core of a group II intron ribozyme	10:30, KL27 K. Raymond Enzyme-like catalysis in synthetic supramolecular clusters
11:00, SL051 H. Sun Histidine-rich protein, Hpn and metallothionein: are they similar?	11:00, SL009 P. Debbage Nanostructures for use in molecular imaging: new directions in clinical diagnostics	11:00, SL070 P. Comba Novel biomimetic high-valent non-heme iron sites - Computational and experimental studies with bispidine-iron- H ₂ O ₂ systems	11:00, O055 P. de Hoog Strong increase in both nuclease and cytotoxic activity, due to direct linkage of Cu(3-Clip-Phen) and a platinum moiety	11:00, SL082 G. Knör Bio-inspired Catalysis with Photochemical Metalloenzyme Model Compounds
11:20, O039 Y. Li DNA-binding properties of Helicobacter pylori NikR	11:20, O003 D. Burdinski Lanthanide complexes of novel acetamido- substituted triethylenetetramine ligands as novel ParaCEST MRI contrast agents	11:20, O073 S. DeBeer George X-ray Absorption Spectroscopy of High- Valent Manganese Complexes Relevant to the Oxygen Evolving Complex of Photosystem II	11:20, O057 H. Inoue DNA binding and photocleavage properties of water-soluble dicationic metalloporphyrins	11:20, O105 G. Roelfes Artificial metallo-DNAzymes; enantioselective catalysis & mechanistic studies
11:40, SL049 L. Skjeldal Metal binding site in the macrocyclic peptide Kalata	11:40, SL029 J. M. Zaleski Developing metal-ligand radical approaches to thermal- and photo- therapeutics	11:40, O092 G. Spikes Advances in High Valent Iron Chemistry	11:40, O061 V. C. Pierre DNA bound by a Rhodium Intercalator: Structural Insights into Finding a Mismatch	11:40, SL086 P. A. Monnard Metal-ion mediated RNA polymerization supported by a microenvironment at low temperatures
12:00, SL039 Z. X. Huang Molecular Design of Converting an Electron Transfer Metalloprotein into a Biocatalyst	12:00, O023 B. Therrien Ruthenium-porphyrin compounds for photodynamic cancer therapy	12:00, KL21 L. Que, Jr. New features of the nonheme oxoiron(IV) landscape	12:00, O062 D. Schilter Assembly of metallocyclic architectures: towards DNA nanoshuttles	12:00, O099 Y. Hisaeda Bioinspired Catalysts with Vitamin B12 Functions

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Wednesday, July 18, Morning Program (continued)

A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
12:20, SL041 C. Luchinat "Four-dimensional" protein structures: examples from metalloproteins	12:20, SL017 M. E. Kenney Pc 4 - An Organosilicon Photodynamic Therapy Drug	12:30, SL076 W. Nam Mononuclear Nonheme Iron(IV)-Oxo Complexes in Oxygenation Reactions	12:20, O064 K. Tsukahara Intramolecular energy transfer in cytochrome c modified with a DNA-responsive Pt(II) complex	
12:40, SL046 M. Odaka Maturation of thiocyanate hydrolase is promoted by its activator protein, P15K	12:40, O016 E. G. Moore Luminescent 1,2-HOPO Chelates of Eu(III), Bioconjugation and FRET Studies.	12:50, O088 K. Ray Electrochemical studies on non-heme oxoiron(IV) complexes	12:40, O065 R. Vilar Stabilization of G-quadruplex DNA and inhibition of telomerase activity by square-planar metal complexes	
			13:00, O067 A. Zhitkovich Ascorbate-mediated metabolism is the key pathway to high mutagenicity and genotoxicity of chromium(VI)	
13:20 – 14:20 Lunch				
Free afternoon				

KL = Keynote Lecture, SL = Session Lecture, O = Oral Presentation

Thursday, July 19, Morning Program

08:30 – 09:20 Plenary Lecture, PL 4 , Votivkirche Chair Frazer Armstrong		Isabel Moura A Bioinorganic Guide to Denitrification		
09:20 – 09:50 Coffee Break				
Lecture Hall				
A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
Metalloproteins - Mo-, W-proteins Chair Dave Garner , José Moura	Metals in medicine - Brain, Rescue Chair Chris Orvig , Robert Crichton	Bioinspired coordination chemistry 6 Chair W. Robert Scheidt , Annie Powell	Electron transfer and radicals 2 Chair Joan Broderick , Elena Milaeva	Metal-based environmental chemistry & Bioinorganic prebiotic chemistry Chair Enrique Baran , Bernd Rode
09:50, KL14 G. Schwarz The molybdenum cofactor: Biosynthesis, function and deficiency	09:50, KL04 C. Orvig Multifunctional carbohydrate-appended metal complexes as potential agents in Alzheimer's disease therapy	09:50, KL22 W. R. Scheidt Nitric Oxide and Hemes, From Toxic Gas to NRVS	10:00, SL100 J. B. Broderick Structural and mechanistic insights into the generation of a glycol radical by a [4Fe- 4S]-radical-AdoMet activating enzyme	10:00, SL109 E. J. Baran Vanadium detoxification: chemical and biochemical aspects
10:20, SL036 D. Garner The Nature and Function of the Catalytic Centres of the Molybdenum and Tungsten Oxotransferase Enzymes	10:20, SL016 G. N. Jameson Possible Mechanisms leading to Iron Related Oxidative Stress	10:20, O078 K. Kano Oxidation of NO-coordinated iron(II) and manganese(II) porphyrins included by cyclodextrins in aqueous solutions	10:20, SL102 B. Fischer Promising Antioxidants: Nucleotides and oligonucleotides as potent inhibitors of the Fenton and Haber-Weiss reactions	10:20, O127 R. N. Austin Characterizing alkane-oxidation mechanisms from a number of environmentally-important metalloenzymes
10:40, SL043 O. O. Meyer Post-translational assembly of the molybdenum-copper-sulphur active site cluster of CO dehydrogenase	10:40, O005 P. S. Donnelly Copper and zinc bis(thiosemicarbazonato) complexes for the treatment of Alzheimer's disease	10:40, O082 N. Lehnert Synthesis, electronic and vibrational properties, and reactivity of iron(II)- porphyrin NO complexes with covalently attached proximal N-donor ligands	10:40, SL103 T. Glaser Generation, Spectroscopy, and Reactivity of Highly Oxidized Diiron Species	10:40, O128 X. Huang Inhibition effect of Tb(III) on horseradish peroxidase activity
11:00, SL044 J. J. Moura Probing the mechanism of Formate Dehydrogenases using EPR Mo(V) signals	11:00, SL006 R. Crichton Iron generated reactive oxygen species and neurodegenerative diseases	11:00, O085 M. Nakamura Formation of iron(III) porphyrinoids with unusual electronic and magnetic properties	11:00, SL104 A. Gräslund Ribonucleotide reductase- interplay between redox-active metals and free radicals	11:00, O129 L. T. Phung Bacterial enzymes and membrane pumps for arsenic: multiple and parallel evolution
11:20, O031 J. H. Enemark Investigation of the coordination structures of the molybdenum(V) sites of sulfite oxidizing enzymes by pulsed EPR spectroscopy: Direct detection of coordinated sulfate using ³³ S labeling	11:20, SL003 P. Bernhardt Chelators for the treatment of iron overload diseases	11:20, O087 Y. Ohgo Change in Heme Conformation as Electron Transfer Switch	11:20, SL107 E. R. Milaeva Biomimetic antioxidants based on metal complexes with 2,6-di-tert-butylphenols. Synthesis, redox properties, and antioxidative activity	11:20, SL122 B. M. Rode Chemical Evolution towards the Origin of Life

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Thursday, July 19, Morning Program (continued)

A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
<p style="text-align: center;">11:40, O036</p> <p>W. R. Hagen Pre steady state and steady state kinetic studies into the reaction cycle of the W/F_e/S enzyme formaldehyde oxidoreductase from <i>Pyrococcus furiosus</i>.</p>	<p style="text-align: center;">11:40, SL004</p> <p>P. L. Carver Clinical Evaluation of Drug Interactions: Translation of information from the Chemist's Bench to the Patient's Bedside.</p>	<p style="text-align: center;">11:40, O086</p> <p>Y. Naruta Mechanistic study on oxygen activation in cytochrome c oxidase active site with elaborate chemical models</p>	<p style="text-align: center;">11:40, O120</p> <p>S. Grimaldi Role and location of a quinol oxidation site in the respiratory nitrate reductase complex from <i>Escherichia coli</i></p>	<p style="text-align: center;">11:50, O146</p> <p>M. Sodupe Polymerization on the rocks. Aluminosilicate surfaces as promoters for the peptide bond formation</p>
<p style="text-align: center;">12:00, KL12</p> <p>P. M. Kroneck Living on acetylene: structure and function of acetylene hydratase, a novel bacterial tungsten enzyme</p>	<p style="text-align: center;">12:00, O004</p> <p>S. M. Cohen Inhibitors of medically relevant metalloproteins</p>	<p style="text-align: center;">12:00, SL077</p> <p>A. K. Powell New model compounds to help to unravel the complexities of the Oxygen Evolving Centre in Photosystem II</p>	<p style="text-align: center;">12:00, O125</p> <p>A. V. Shtemenko Interaction of cluster Rhenium compounds with radicals in vitro and in vivo</p>	
<p>12:30 – 13:30 Lunch</p>				

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Thursday, July 19, Afternoon Program

Lecture Hall				
A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
Metalloproteins - Heme iron proteins 1 Chair Karl Andersson, Martha Sosa-Torres	Metals in medicine - Si, Fe, Pt, Ru Chair Reinhold Tacke, Timothy Egan	Metal trafficking (transport and regulation) - Ni, V, Cd Chair Juan Fontecilla-Camps, James Penner-Hahn	Metal interactions with DNA/RNA/nucleotides and other biomolecules - Anticancer complexes Chair Dan Gibson, Jan Reedijk	Bioinspired catalysis 4 Chair Bärbel Friedrich, Wolfgang Weigand
13:40, O026 K. Andersson Crystallographic and spectroscopical studies of peroxide-derived myoglobin intermediates	13:30, KL06 R. Tacke Drug Design Based on the Carbon/Silicon Switch Strategy	13:40, SL092 S. Ciurli Malleable proteins and hard metals: the case of nickel-sensors and nickel-chaperones	13:30, KL17a D. Gibson Interactions of Pt Complexes with Cancer Cell Extracts	13:40, SL079 B. Friedrich Oxytolerant Biological Hydrogen Conversion
14:00, SL030 A. Chougnat New fluorescent probes for Cytochrome P450 3A4 (CYP3A4)	14:00, SL011 T. Egan Exploring of the mechanism of haemozoin formation in haematophagus parasites	14:00, SL093 D. C. Crans Interaction of Vanadium and Other Transition Metal Compounds with a Lipid Interfaces	14:00, SL065 J. Reedijk Interaction of inorganic anticancer drugs with DNA and cellular components	14:00, SL089 W. Weigand Synthesis of novel model complexes of the active site of the [Fe-only]-hydrogenase
14:20, O052 C. M. Wilmot The crystal structure of cytochrome P460 of Nitrosomonas europaea reveals a novel cytochrome fold and heme-protein cross-link.	14:20, SL012 D. Gambino Metal complexes as potential anti-parasitic agents	14:20, SL094 J. C. Fontecilla-Camps Physiological binding of nickel to the bacterial periplasmic transporter NikA requires a metallophore.	14:20, SL058 A. Erxleben Interactions of antitumour active Cp2MoCl2 with biomolecules	14:20, O096 S. P. Best Modelling [Fe Fe]-hydrogenase: Electrocatalytically competent proton reduction by an iron thiolate assembly operating through Fe(0)-Fe(II) levels
14:40, SL031 M. A. De la Rosa Protein Evolution and Geochemical Changes: From Cytochrome c6 to Plastocyanin	14:40, SL025 R. A. Sánchez-Delgado Arene-Ru-Chloroquine Complexes with DNA Binding and Heme Aggregation Inhibition Ability as Potential Antimalarial and Antitumor Agents	14:40, SL095 H. Küpper Heavy metal accumulation in metal hyperaccumulator plants	14:40, SL054 V. Brabec DNA-protein cross-links by antitumor cisplatin	14:40, O100 A. K. Jones Synthetic hydrogenases: Incorporation of an iron carbonyl thiolate into a designed peptide

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Thursday, July 19, Afternoon Program (continued)

A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
15:00, SL052 C. Varotsis The Structure of the Hyponitrite Species in the Heme Fe-CuB Center of ba3 Oxidase from <i>Thermus thermophilus</i>	15:00, O017 S. Omanovic Interaction of Serum Albumin and Fibrinogen with a Biomedical-grade Stainless Steel 316 LVM Surface	15:00, SL096 J. Penner-Hahn Inorganic Physiology: Distribution and Speciation of Metal Ions in Yeast	15:00, SL068 S. Zorbas-Seifried Interaction of novel platinum complexes with DNA in vitro representing new concepts for improving antitumor activity and their possible biological relevance	15:00, O103 X. Liu Protonation induced vacant sites in iron-only hydrogenase model compounds
15:20, SL050 M. E. Sosa-Torres Redox properties of the c-type heme centers in the novel PQQ-dependent alcohol dehydrogenase from nitrogen fixing <i>Gluconacetobacter diazotrophicus</i>	15:20, O024 M. L. Williams Selective inhibition of carbonic anhydrase isozymes I, II and IX with novel metallocene-based triazole-linked sulfonamides.	15:20, O111 M. J. Maroney Specific metal recognition in proteins that traffic in nickel	15:20, SL064 L. Messori Reactions of anticancer metallodrugs with proteins	15:20, SL090 W. D. Woggon Enantioselective transfer hydrogenation of aliphatic ketones catalyzed by ruthenium complexes linked to beta-cyclodextrin
15:40, O037 T. Kitagawa UV resonance Raman investigation of the functional mechanism of Ec DOS protein: Utilization of the heme 6-propionate hydrogen bond network	15:40, O014 S. Mahmoud Characterization of the anti-cancer effect of novel synthetic nucleosides on acute promyelocytic cell line (HL-60)		15:40, O058 G. Koellensperger Native separation schemes for the assessment of metal protein interaction by elemental and molecular mass spectrometry	15:40, O101 M. S. Koay De Novo peptides modelling the binding sites of [4Fe-4S] clusters in Photosystem I
16:00	Poster Session (beer, wine and snacks will be served also after the official end of the session from 18:00-21:00))			

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Friday, July 20, Morning Program				
08:30 – 09:20 Plenary Lecture, PL 2 , Votivkirche Chair Helmut Sigel		Shunichi Fukuzumi Bioinspired Energy Conversion Systems between Water and Oxygen		
09:20 – 09:50 Coffee Break				
Lecture Hall				
A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
Metalloproteins - Heme iron proteins 2 Chair Christian Obinger, Mario Rivera	Metals in medicine - Non-platinum Chair Michael Clarke, Enzo Alessio	Bioinspired coordination chemistry 7 Chair Yasuhiro Funahashi, Kenneth Karlin	Electron transfer and radicals 3 Chair Laura della Corte, Dan Meyerstein	Bioinorganic clusters and nanoparticles Chair Kazuyuki Tatsumi, Constantin Turta
09:50, O048 I. Salard-Arnaud Spectroscopic properties and reactivity of a nitric oxide synthase-like protein from <i>Bacillus subtilis</i>	09:50, SL005 M. J. Clarke Overview of Non-platinum Therapeutic and Diagnostic Agents	09:50, KL19 Y. Funahashi Formation of "Bridged Butterfly Structures" in O ₂ -activation Steps by Dicopper Complex Systems with Steric Constraint	09:50, SL101 L. della Corte An improved method for detecting hydroxyl radical formation together with evoked neurotransmitter release in brain microdialysis	09:50, SL112 K. Tatsumi A New Aspect of Fe/S-Cluster Synthesis - Relevance to the Active Site of Nitrogenase and Hydrogenase -
10:10, SL045 C. Obinger Impact of heme to protein linkages in peroxidases on redox chemistry and catalysis	10:10, SL001 E. Alessio Recent advances in anticancer ruthenium compounds	10:20, KL20 K. Karlin Dioxygen Binding and Activation Chemistry at Mononuclear Copper Ion Centers	10:10, SL106 D. Meyerstein The Reductive Nitrosation of Amines and Peptides Ligated to Central Cu(II)/Ni(II)/Fe(III) Ions.	10:10, SL113 C. I. Turta Iron and copper carboxylate clusters as biological active substances
10:30, SL048 M. Rivera The axial ligand and associated hydrogen bonding network in the distal site of heme oxygenase control the dynamical freedom of the enzyme during catalysis	10:30, SL026 G. Sava Ruthenium-based drugs and the selective control of solid tumour metastases	10:50, SL072 S. Itoh Monooxygenase activity of a mononuclear copper(II) alkylperoxo complex	10:30, SL108 Y. Shimazaki Characterization and reactivities of metal- phenoxyl radical species (Metal = Cu, Ni, Pd, Pt)	10:30, SL114 B. Zümreoglu-Karan Intermediate Au(III)-vitamin C complexation on the production of gold nanoparticles: commentary
10:50, O027 G. Battistuzzi Redox thermodynamics of the Fe ³⁺ /Fe ²⁺ couple in wild-type and mutated heme peroxidases	10:50, LO1 C. G. Hartinger Indazolium trans-[tetrachlorobis(1H- indazole)ruthenate(III)] (KP1019 or FFC14A) - a ruthenium compound in clinical trials	11:10, SL078 S. Schindler Adventurous search for reactive intermediates in copper dioxygen chemistry	10:50, O122 A. I. Kotelnikov Protein dynamics control of electron transfer in reaction centers from photosynthetic bacteria	10:50, O133 V. V. Annenkov Nano-sized silica-polymer complexes: a possible form of intracellular silica transport particles?
11:10, O033 R. A. Ghiladi Unnatural Amino Acid Containing Mutants of KatG Exhibit Enhanced Peroxidase Activity	11:10, LO2 M. A. Jakupec Tris(8-quinolinolato)gallium(III) (KP46, FFC11), an investigational anticancer drug in clinical trials	11:30, O080 M. Kodera Determination of P1/2 Values with Room Temperature Stable Peroxodicopper(II) Complexes as Models of Oxyhemocyanin and O ₂ -Affinity Control by Structural Modulation	11:10, O123 F. MacMillan Resolving protein cofactor interactions in terminal oxidases using multidimensional EPR spectroscopy	

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Friday, July 20, Morning Program (continued)				
A (Audimax)	B (Großer Festsaal)	C (Kleiner Festsaal)	D (HS28)	E (HS31)
<p>11:30, O034 D. B. Goodin Design, synthesis, and structures of tethered substrates as probes of the active sites of cytochrome P450cam, cytochrome c peroxidase, and nitric oxide synthase.</p>	<p>11:30, SL002 W. Berger Impact of drug resistance mechanisms on the anticancer activity of new metal compounds</p>	<p>11:50, O090 A. T. Ryan Small molecule models of Copper Nitrite Reductase</p>	<p>11:30, O126 M. Sola Exploiting immobilized engineered cytochrome c in bioelectronic sensing devices</p>	
<p>11:50, O041 R. S. Magliozzo Catalase-peroxidase mutant KatG[Ser315Thr] from M. tuberculosis exhibits unique heme iron structure and catalytic function despite the remote locus of residue 315.</p>		<p>12:10, O093 G. Valensin The interaction of copper with peptide sequences of prion proteins: NMR and molecular dynamics investigations</p>		
12:30 – 13:30 Lunch				

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Friday, July 20, Afternoon and Evening Program	
Votivkirche	
13:30 – 14:10	Helvetica Chimica Acta Poster Award and Chemistry & Biodiversity Poster Award
14:10 – 14:30	1 st SBIC Early Career Award
14:30 – 15:20	SBIC Early Career Award Lecture, Chair: Bob Scott Plenary Lecture AL1 Y. Lu Designing Functional Metalloenzymes
15:20	Closing Ceremony and Announcement of ICBIC14
17:30	Pick-up at the University for Heuriger
18:30-23:00	Heuriger