

# 8th Asian Biological Inorganic Chemistry Conference Programme

## Sunday December 4, 2016

12:00 PM - 6:00 PM	<b>Registration Opens (OGGB Level 0)</b>
1:00 PM - 4:00 PM	<b>Early Career Bioinorganic Chemistry Forum (OGGB 5)</b>
5:00 PM - 6:00 PM	<b>Conference Opening Ceremony (OGGB Level 0, Room 098)</b> Room: Lecture Theatre 098
6:00 PM - 7:00 PM	<b>Plenary Speaker: Trevor Hambley, University of Sydney</b> <b>308 TARGETING STRATEGIES FOR METAL-BASED ANTICANCER AGENTS</b> Session Chair: Christian Hartinger Room: Lecture Theatre 098
7:00 PM - 9:00 PM	<b>Welcome Reception (OGGB, Level 1)</b>

## Monday December 5, 2016

7:45 AM - 9:00 AM	<b>Registration Opens (OGGB Level 0)</b>
9:00 AM - 10:00 AM	<b>Plenary Speaker: Alison Butler, University of California Santa Barbara</b> <b>140 METALS, MARINE MICROBES AND MUSSELS: THE CHEMICAL BIOLOGY OF SIDEROPHORES</b> Supported by ACS Division of Inorganic Chemistry Session Chair: Penelope Brothers Room: Lecture Theatre 098

10:00 AM - 10:30 AM	<b>Parallel Session 1</b> Session Chair: Wee Han Ang Room: OGGB 4	Session Chair: Debbie Crans Room: Case Room 2	Session Chair: Robert Scott Room: OGGB 5	Session Chair: Kathy Franz Room: OGGB 3
	191 Keynote Lecture METALLOGLYCOMICS. ANTIANGIOGENIC PLATINUM THROUGH GLYCAN TARGETING - Nicholas Farrell, Virginia Commonwealth University	6 Keynote Lecture ASSEMBLY, DEGRADATION AND REPAIR OF IRON-SULFUR CLUSTERS - Michael Johnson, University of Georgia	296 Keynote Lecture CYTOCHROME P450 OXIDATIONS: A CONTROLLED BURN OF INERT ORGANIC COMPOUNDS - Michael Green, University of California	4 Keynote Lecture PORPHOLACTONES: AN EMERGING SYNTHETIC MODEL FOR TETRAPYRROLE COFACTORS - Jun-Long Zhang, Peking University

### 10:30 AM - 11:00 AM Morning Tea Break

11:00 AM - 1:00 PM	<b>Parallel Session 2</b> Session Chair: Wee Han Ang Room: OGGB 4	Session Chair: Debbie Crans Room: Case Room 2	Session Chair: Robert Scott Room: OGGB 5	Session Chair: Kathy Franz Room: OGGB 3
	<b>2A. Novel Strategies in Development of Pt Anticancer Drugs</b> FROM PT-DNA INTERACTIONS TO METALLOGLYCOMICS - Sue Berners-Price, Griffith University	<b>2B. Luminescence in Bioinorganic Chemistry</b> REDISCOVERING LUMINESCENT COMPLEXES FOR LIFE SCIENCE - Max Massi, Curtin University	<b>2C. Structural and Functional Diversity of Metalloproteins</b> STRUCTURAL BASIS FOR THE MOLECULAR MECHANISM OF HEME ACQUISITION IN CORYNEBACTERIUM GLUTAMICUM - Shigetoshi Aono, Institute For Molecular Science	<b>2D. Bioinspired Chemistry and Catalysis</b> TRANSITION-METAL NITROSYL COMPLEXES: - Kiyoshi Fujisawa, Ibaraki University
	221 Invited Lecture	116 Invited Lecture	35 Invited Lecture	279 Invited Lecture
	243 Invited Lecture PTCIS-1,4-DACHJCL2 (KITEPLATIN) AND ANALOGS: PROMISING ANTITUMOR COMPLEXES. - James Hoeschele, Eastern Michigan University	274 Invited Lecture LIPID IMAGING IN PROSTATE CANCER USING LUMINESCENT METAL ION COMPLEXES - Sally Plush, University of South Australia	182 Invited Lecture MECHANISM OF AROMATIC HYDROXYLATION REACTIONS BY COMPOUND I OF CYTOCHROME P450 - Hiroshi Fujii, Nara Women's University	104 Invited Lecture CHARACTERIZATION AND REACTIVITY OF A RUTHENIUM(III)-OXYL COMPLEX - Takahiko Kojima, University of Tsukuba
	73 Invited Lecture FACTORS WHICH RENDER INEFFECTIVE TRANSPLATIN CYTOTOXIC - Viktor Brabec, Academy of Sciences of the Czech Republic	86 Invited Lecture MITOCHONDRIAL IMAGING AND TRACKING - Hui Chao, Sun Yat-sen University	310 Invited Lecture SPECTROSCOPIC EVIDENCE SUPPORTING NEUTRAL THIOL LIGATION TO FERROUS HEME IRON - John Dawson, University of South Carolina	19 Invited Lecture CATALYTIC WATER OXIDATION BASED ON SEVEN-COORDINATE METAL OXO AND DO METAL NITRIDO OXO ACTIVE INTERMEDIATES - Tai-Chu Lau, City University Of Hong Kong
	259 Invited Lecture FUNCTIONALIZATION AND TARGETED DELIVERY OF PT(IV) ANTICANCER PRODRUGS - Guangyu Zhu, City University of Hong Kong	25 Invited Lecture FLUORESCENT SENSORS TO STUDY CELLULAR COPPER HOMEOSTASIS - Elizabeth New, University Of Sydney	302 Invited Lecture ACTIVATING VERY INERT C-H AND O-H BONDS USING ELECTRONIC COOPERIVITY IN HEME/NON-HEME DIIRON(IV)-OXO COMPLEXES: A THEORETICAL PERSPECTIVE - Rajaraman Gopalan, Indian Institute of Technology Bombay	100 Invited Lecture BIOINSPIRED DIMETAL COMPLEXES: EXTREMELY HIGH CATALYTIC ACTIVITY FOR THE OXIDATION OF BENZENE WITH HYDROGEN PEROXIDE - Masato Kodera, Doshisha University
	185 Oral Presentation NON COVALENT POLYNUCLEAR PLATINUM COMPLEXES AS METALSHIELDING AGENTS FOR HEPARAN SULFATE - Anil Kumar Gorle, Griffith University		102 Oral Presentation DIRECT RESONANCE RAMAN EVIDENCE FOR THE FORMATION OF A FERRYL SPECIES VIA PHOTOREDUCTION OF THE OXIDIZED BA3 OXIDOREDUCTASE FROM THERMUS THERMOPHILUS - Constantinos Varotsis, Cyprus University Of Technology	108 Oral Presentation BIO-INSPIRED OXIDATION OF ALCOHOLS CATALYSED BY COPPER COMPLEXES - Xiaoming Liu, Jiaxing University
	12 Oral Presentation GOLD AND PLATINUM COMPLEXES FOR CANCER DIAGNOSIS AND THERAPY - Taotao Zou, The University of Hong Kong		5 Oral Presentation HEME PROTEIN DESIGN: STRUCTURAL AND FUNCTIONAL DIVERSITY - Ying-wu Lin, University of South China	80 Oral Presentation BENZENE HYDROXYLATION BY THE LONG-LIVED PHOTOEXCITED STATE OF A SCANDIUM ION-BOUND MONONUCLEAR NONHEME MANGANESE(IV)-OXO COMPLEX - Namita Sharma, Ewha Womans University
	218 Oral Presentations SCREENING APPROACH AS A BASE FOR SELECTION OF NEW PLATINUM-BASED COMBINATIONS FOR TREATMENT OF PROBLEMATIC CANCERS AND DEVELOPMENT OF NOVEL BIFUNCTIONAL PRODRUGS - Hristo Varbanov, Swiss Federal Institute of Technology			

### 1:00 PM - 2:00 PM Lunch Break

### SBIC Members Assembly

2:00 PM - 4:00 PM	<b>Parallel Session 3</b> Session Chair: Zijian Guo Room: OGGB 4	Session Chair: Max Massi Room: Case Room 2	Session Chair: Michael Green Room: OGGB 5	Session Chair: Jun-Long Zhang Room: OGGB 3
	<b>3A. Metallo drugs Against Diseases Other Than Cancer</b> BISMUTH COMPLEXES AS EFFECTIVE ANTIBACTERIAL AGENTS - Phil Andrews, Monash University	<b>3B. Imaging and Sensing</b> FLUORESCENT SENSORS FOR IMAGING MANGANESE - Ankona Datta, Tata Institute of Fundamental Research	<b>3C. Enzymes in Small Molecule Metabolism</b> DECOY SYSTEMS FOR SMALL ORGANIC MOLECULE OXYGENATION BY P450S - Yoshitoko Watanabe, Nagoya University	<b>3D. Small Molecules in Bioinspired Inorganic Chemistry</b> METAL-OXYGEN INTERMEDIATES IN DIOXYGEN ACTIVATION CHEMISTRY - Wonwoo Nam, Ewha Womans University
	79 Invited Lecture	170 Invited Lecture	171 Invited Lecture	258 Invited Lecture
	52 Invited Lecture ANTIMICROBIAL PROPERTIES OF MONO- AND DI-METALLIC 2-PYRIDYL-1,2,3-TRIAZOLE "CLICK" COMPLEXES - James Crowley, University of Otago	208 Invited Lecture A CONSERVED SIGNAL TRANSDUCTION MECHANISM OF THE HEAVY METAL SENSING TWO COMPONENT SYSTEMS IN GRAM NEGATIVE BACTERIA - Aixin Yan, The University of Hong Kong	103 Invited Lecture USING MOLYBDENUM TO REDUCE NITRITE AND PRODUCE SIGNALING •NO - José Moura, Universidade Nova de Lisboa	89 Invited Lecture FORMATION OF A MONONUCLEAR NONHEME COBALT-HYDROPEROXO COMPLEX FROM ITS SUPEROXO INTERMEDIATE - Way-Zen Lee, National Taiwan Normal University
	15 Invited Lecture TARGETING CATABOLITE CONTROL PROTEIN A (CCPA) FROM STAPHYLOCOCCUS AUREUS BY SILVER IONS - Wei Xia, Sun Yat-sen University	268 Invited Lecture THE STRUCTURAL BIOLOGY OF INTRACELLULAR COPPER TRAFFICKING PATHWAYS - Megan J Maher, La Trobe University	56 Invited Lecture THE TERMINAL ENZYME OF DENITRIFICATION [NITROUS OXIDE REDUCTASE-NZOR] - Isabel Moura, Universidade Nova de Lisboa	90 Invited Lecture METAL-PEROXO AND -HYDROPEROXO INTERMEDIATES IN OXIDATIVE REACTIONS - Jaehyeung Cho, DGIST
	275 Oral Presentation HIGH ACTIVITY OF NOVEL SBI(V)- AND BI(V)-BASED COMPLEXES AGAINST SB-SENSITIVE AND -RESISTANT LEISHMANIA PARASITES - Cynthia Demicheli, Universidade Federal de Minas Gerais	245 Invited Lecture ENTROPY REDISTRIBUTION IS A PRINCIPAL DRIVER OF ALLOSTERY IN A METALLOREGULATORY PROTEIN - David Gledroch, Indiana University	148 Invited Lecture HYDROXYLATION OF SUBSTRATES THROUGH MULTI-COMPONENT ENZYMES - Seung Jae Lee, Chonbuk National University	287 Invited Lecture RAPID PHOTOACTIVATED GENERATION OF NITROXYL (HNO) FROM PILOT'S ACID DERIVATIVES - Nicola Brasch, Auckland University Of Technology
	240 Oral Presentation ANTIBACTERIAL ACTIVITY AND ACUTE TOXICITY STUDIES ON TWO METAL COMPLEXES OF MARBOFLOXACIN - Yancheng Liu, Guangxi Normal University	315 Invited Lecture DESIGN OF LANTHANIDE PROBES FOR MOLECULAR IMAGING - Ga-Lai Law, The Hong Kong Polytechnic University	220 Invited Lecture INVESTIGATIONS INTO THE MECHANISM AND BIOCATALYTIC POTENTIAL OF P450 ENZYMES - Stephen Bell, University Of Adelaide	97 Invited Lecture AROMATIC HYDROXYLATION BY BIS(Mm-OXIDO)DNICKEL(III) COMPLEX - Shinobu Itoh, Osaka University
	303 Oral Presentation PLATINUM-NUCLEOBASE COMPLEXES AND THE HIVNCP7 ZINC FINGER PEPTIDE STUDIED BY NMR SPECTROSCOPY - Yun Qu, Virginia Commonwealth University	238 Oral Presentation STRUCTURE AND FUNCTION STUDY OF CD, HG, AND PB HEAVY METAL ION TRANSCRIPTION REGULATORY PROTEINS IN MERR FAMILY - Hao Chen, Nanjing University	20 Oral Presentation USING ENZYMIC FRAGMENTATION TO SOURCE NOVEL DRUGS FROM NATURAL PRODUCTS - Tomas Richardson-sanchez, University of Sydney	

4:00 PM - 4:30 PM	<b>Poster Flash Presentations</b> Session Chair: Penelope Brothers Room: Lecture Theatre 098
4:30 PM - 4:40 PM	<b>Thermo Fisher Presentation</b> Room: Lecture Theatre 098

4:40 PM - 7:00 PM	<b>Poster Session 1: Odd Numbers</b> <b>Sponsored by Chem from Cell Press</b>
In Silico	177 STRUCTURAL SIMILARITY AND FUNCTIONAL DIFFERENCE BETWEEN C-TYPE-LYSOZYME AND A-LACTALBUMIN THROUGH MOLECULAR EVOLUTION Toshiaki Taura, University of Aichi Prefecture

Bioinspired	205	PNP COBALT COMPLEXES CATALYZED COVERSION OF CO <sub>2</sub> TO FORMATE Jonghoon Choi, Korea Advanced Institute Of Science And Technology
Bioinspired	215	INTRAMOLECULAR ALIPHATIC C-H BOND ACTIVATION AND OXYGENATION THROUGH REDUCED COPPER(I) COMPLEXES SUPPORTED BY STERICALLY HINDERED N,N,O-SCORPIONATE LIGAND Chuan-Hung Chuang, Institute of Chemistry, Academia Sinica
Bioinspired	81	A CHROMIUM(III) SUPEROXO COMPLEX ACTING AS A NOVEL THREE-ELECTRON OXIDANT IN MULTI-ELECTRON OXIDATION OF NADH ANALOGS Tarali Devi, Ewha Womans University
Bioinspired	133	N2 FUNCTIONALIZATION WITH T-SHAPED COBALT COMPLEX BEARING IMINOPHOSPHORANE LIGAND Keisuke Fujimoto, Nagoya Institute of Technology
Bioinspired	43	EXTENDING PHENANTHROLINE TOWARDS TETRAEDENTATE GUANIDINE HYBRID LIGANDS: A CHEMICAL APPROACH TOWARDS THE ELECTRON TRANSPORT FROM CYTOCHROME-C TO CUA Dr. Gerald Henkel, Paderborn University
Bioinspired	233	ENHANCEMENT OF HYDROGEN PHOTOPRODUCTION AND CO <sub>2</sub> REDUCTION WITH A PYRENE-PENDANT METAL CATALYSTS ON REDUCED GRAPHENE OXIDE Jinheung Kim, Ewha Womans University
Bioinspired	61	A FLEXIBLE DIVERGENT BISDPA DIMETALLIC COMPLEX AS PHOSPHATE ESTER HYDROLYSIS CATALYSTS Zhenming Liang, Renmin University Of China
Bioinspired	77	TRIPODAL TRIMETALLIC METALLOENZYMES AS PHOSPHATE ESTER HYDROLYSIS CATALYSTS Zongyao Zhang, Renmin University Of China
Bioorganometallics	157	AN IRIIDIUM(III) COMPLEX AS A PHOTOACTIVATABLE TOOL FOR OXIDATION OF AMYLOIDGENIC PEPTIDES WITH SUBSEQUENT MODULATION OF PEPTIDE AGGREGATION Juhye Kang, Ulsan National Institute of Science and Technology
Bioorganometallics	119	THE DEVELOPMENT OF HYDROXAMIC ACID-BASED AND 2-HYDROXYISOPHTHALAMIDE-BASED BIFUNCTIONAL CHELATES FOR PET IMAGING Rebecca Karmis, La Trobe University
Bioorganometallics	101	EXPLORING ELECTRONIC-NEUTRAL IRIIDIUM(III) COMPLEXES FOR LYSOSOMES IMAGING Kangqiang Qiu, Sun Yat-sen University
Bioorganometallics	309	ANTICANCER ORGANORUTHENIUM AND -OSMIUM COMPLEXES OF PYRIDINECARBOTHIOAMIDES AND PHOSPHINES Zahid Riaz, University of Auckland
Bioorganometallics	285	BIDENTATE N-HETEROCYCLIC CARBENES AS LIGANDS IN THE DEVELOPMENT OF METAL-BASED ANTICANCER AGENTS Sukhjit Singh, University of Auckland
Homeostasis	207	MOLECULAR KIDNAPPING – INTERACTIONS BETWEEN HIS2 AND HIS3 PEPTIDES. Kardina Bossak, Institute of Biochemistry And Biophysics
Homeostasis	269	GLUTATHIONE REDUCTASE AND ITS ROLE IN MAINTAINING ZINC HOMEOSTASIS IN STREPTOCOCCUS PNEUMONIAE. Nwilye Sikanyika, La Trobe University
Metallomics	145	POWDER XRD ANALYSIS OF MICE KIDNEYS Lisa Müller, Friedrich-Alexander-Universität Erlangen-Nürnberg
Metallomics	197	DEVELOPMENT OF A PLASMA MEMBRANE-TARGETING FE(II) PROBE BASED ON N-OXIDE CHEMISTRY Masato Niwa, Gifu Pharmaceutical University
Metallomics	297	THE INTERACTION BETWEEN RU/OS PIANO STOOL COMPLEXES AND LYSOZYME STUDIED BY MASS SPECTROMETRY AND X-RAY CRYSTALLOGRAPHY Matthew Sullivan, University of Auckland
Metallomics	159	UNRAVELLING ANTIMICROBIAL MECHANISM OF BISMUTH TO B. CEPACIA BY INTEGRATED OMIC APPROACH Haibo Wang, The University of Hong Kong
Metalloproteins	237	IRON CHELATORS INHIBIT THE HEME-DEGRADATION REACTION BY HUTZ FROM VIBRIO CHOLERAE Nobuhiko Dojun, Hokkaido University
Metalloproteins	129	DISTRIBUTION BEHAVIOR OF CYTOCHROME C IN THE IONIC LIQUID / BUFFER BIPHASIC SYSTEM SHOWING TEMPERATURE-SENSITIVE PHASE CHANGE Kazuma Ikeda, Tokyo University of Agriculture And Technology
Metalloproteins	231	DEVELOPMENT AND CHARACTERISATION OF A CYP102A5-BASED DECOY MOLECULE SYSTEM Joshua Kyle Stanfield, Nagoya University
Metalloproteins	155	ROLES OF CATALYTIC RESIDUES IN A METAL-DEPENDENT ALCOHOL DEHYDROGENASE FROM THE HYPERTHERMOPHILIC ARCHAEON PYROCOCCUS HORIKOSHII OT3 Chikanobu Sugimoto, Tokyo University of Agriculture And Technology
Metalloproteins	175	PURIFICATION AND CHARACTERIZATION OF RECOMBINANT COPPER-BINDING PROTEINS: POLY-LYSINE TAGS VERSUS POLY-HISTIDINE TAGS Ashwini Ukwadia, University of Melbourne
Metalloproteins	211	SYNTHESIS AND ANTITUMOR ACTIVITIES OF THREE NOVEL TRANSITION METAL COMPLEXES OF 6-METHYL-2-OXO QUINOLINE-3-CARBALDEHYDE THIOSEMICARBAZONE Ye Zhang, Guangxi Normal University
Nucleic	189	CCG TRIPLET REPEATS TARGETING BY AUREOLIC ACID METALLO-LIGAND REVEALS GGCC SPECIFIC BINDING MODE ACCOMPANIED BY DNA DEFORMATION Ming-Hon Hou, National Chung-hsing University
Nucleic	257	REDOX-RESPONSIVE MESOPOROUS SELENIUM DELIVERY OF DOXORUBICIN TARGETS MCF-7 CELLS AND SYNERGISTICALLY ENHANCES ITS ANTI-TUMOR ACTIVITY Qianqian Yu, Jinan University
Nucleic	229	THE MAJOR CHOLESTEROL METABOLITE CHOLESTANE-3B, 5A, 6B-TRIOL INHIBITS THE PROLIFERATION OF HEPATOCELLULAR CARCINOMA Yuehan Zhou, Guangxi Normal University
Energy	203	COPPER MELANIN: STRUCTURE AND PROPERTY CHARACTERISATION Shermyah Rienecker, University of Queensland
Metals in Medicine	21	POTENTIAL APOPTOTIC EFFECT OF VITEX NEGUNDO-COATED GOLD NANOPARTICLES ON MCF-7 BREAST CANCER CELLS-AN IN VITRO STUDY Farqad Abdulhadi Abdulqader, International Medical University
Metals in Medicine	31	CELLULAR IMAGING AND 102 MEDIATED CYTOTOXICITY BY BODIPY-APPENDED COPPER(II) COMPLEXES Arnab Bhattacharyya, Indian Institute of Science
Metals in Medicine	7	MULTIFUNCTIONAL CP-LIGANDS, A NEW VERSATILE TOOLBOX FOR THE DEVELOPMENT OF THERANOSTIC AGENTS Angelo Frei, University of Zurich
Metals in Medicine	1	GLUCOSE CONJUGATION FOR INCREASED UPTAKE OF COBALT(III) TUMOUR ACTIVATED PRODRUGS BY CANCER CELLS Alexandra Glenister, University of Sydney
Metals in Medicine	241	SYNTHESIS, ANTITUMOR ACTIVITY OF PLATINUM(II) COMPLEXES WITH MONO-AMINO-PHOSPHONATE ESTER Ke-Bin Huang, Guangxi Normal University
Metals in Medicine	213	MONO AND DINUCLEAR COMPLEXES AS ANTICANCER THERAPEUTIC LEADS Paul Jarman, University of Sheffield
Metals in Medicine	149	IN VITRO CYTOTOXICITY OF HALF-SANDWICH PLATINUM GROUP METAL COMPLEXES OF A CATIONIC ALKYLATED PHOSPHAADAMANTANE LIGAND Catherine H Kaschula, University of Cape Town
Metals in Medicine	283	BORON PORPHYRINS AND PORPHYRINOLIDES AS PDT AGENTS Nina Novikova, University of Auckland
Metals in Medicine	121	CIRCUMVENTING CONCENTRATION DEPENDENCE OF RESPONSIVE MR CONTRAST AGENTS USING COBALT Edward O'Neill, University of Sydney
Metals in Medicine	9	A REVERSIBLE ROUTE FOR THE STEREOSPECIFIC RECONSTITUTION OF VITAMIN B12 USING CYANIDE AS INORGANIC PROTECTING GROUP Lucas Prieto Gonzalez-posada, University of Zurich
Metals in Medicine	235	PREPARATION AND EVALUATION OF THE BIOLOGICAL ACTIVITIES OF 6-AMINO-OXISOAPORPHINE GROUP-10 METAL COMPLEXES Qi-pin Qin, Guangxi Normal University
Metals in Medicine	39	AN ACYCLIC BISDIPYRRIN COPPER(II) COMPLEX Jacob Rowan, University of Melbourne
Metals in Medicine	117	STOPPING WORMS IN THEIR TRACKS: A NEW GENERATION OF ACETYLCHOLINESTERASE INHIBITORS AS DRUGS AGAINST SCHISTOSOMIASIS Madhu Kiran Sundaraneedi, University of New South Wales at the Australian Defence Force Academy
Metals in Medicine	85	APPROACHES TO HYPOXIA-ACTIVATED ANTI-CANCER PRO-DRUGS Fateme Tavakolinia, University of Canterbury
Metals in Medicine	55	MULTI-TARGETED MODE OF ACTION OF BI(III) IN THE CARCINOGENIC BACTERIAL PATHOGEN HELICOBACTER PYLORI REVEALED BY INTEGRATED METALLOPROTEOMICS Yuchuan Wang, Sun Yat-sen University
Metals in Medicine	65	MULTIFUNCTIONAL MESOPOROUS SILICA NANOPARTICLES FOR COMBINED PHOTODYNAMIC THERAPY AND CONTROLLED CHEMOTHERAPY Chi Hang Wong, The Chinese University of Hong Kong
Metals in Medicine	3	L-AMINO ACID DERIVATIVE SCHIFF BASE ZN(II) COMPLEXES AS UVA SUNSCREEN Nanami Yoshida, Tokyo University of Science
Metals in Medicine	71	DEVELOPMENT OF NOVEL TWO-PHOTON FLUORESCENT PROBES FOR SUBCELLULAR IMAGING Yimin Zhou, The Chinese University of Hong Kong
Metals in Medicine	131	MITOCHONDRION-TARGETED PLATINUM COMPLEXES SHOWING NEW ANTITUMOR MECHANISM Zhenzhu Zhu, Nanjing University

Nanotechnology	209	DYNAMIC MONITORING OF OXIDATIVE STRESS-INDUCED INTRACELLULAR POLARITY FLUCTUATION WITH A FRET BASED RATIONOMETRIC FLUORESCENT PROBE CBDP Yang Bai, Nanjing University					
Nanotechnology	299	CONIUGATION OF RUTHENIUM COMPLEXES TO MAGNETITE NANOPARTICLES FOR DRUG DELIVERY Saawan Kumar, University of Auckland					
Nanotechnology	123	ANTICANCER CYCLOMETALATED PLATINUM(II) COMPLEX WITH N-HETEROCYCLIC CARBENE: DISPOSITION, METABOLISM AND NANOFORMULATION Pui Ki Wan, The University of Hong Kong					
Nanotechnology	187	RUTHENIUM ( II ) COMPLEX MODIFIED GOLD NANOPARTICLES AND THEIR BIOACTIVITIES AGAINST HEP2 CELLS Qianling Zhang, Shenzhen University					
	313	INORGANIC GRAPHITIC CONVERSION OF B-SHEET STRUCTURED PROTEINS AT HIGH TEMPERATURE Prof. Hyoung-Joon Jin, Inha University					
7:00 PM - 8:00 PM <b>ASBIC Steering Committee Meeting (Case Room 2)</b>							
<b>Tuesday December 6, 2016</b>							
<b>Plenary Speaker: Tomitake Tsukihara, University of Hyogo</b>							
9:00 AM - 10:00 AM	<b>98</b>	<b>STRUCTURAL STUDIES OF CYTOCHROME C OXIDASE</b> Session Chair: Geoff Jameson Room: Lecture Theatre 098					
<b>Parallel Session 4</b>							
10:00 AM - 10:30 AM		<b>Sponsored by Chem from Cell Press</b> Session Chair: Paul Donnelly Room: OGGB 4		Session Chair: Hongzhe Sun Room: Case Room 2		Session Chair: Eva Freisinger Room: OGGB 5	
	109 Keynote Lecture	STRUCTURE-MECHANISM-BASED ENGINEERING OF CHEMICAL REGULATORS FOR DISTINCT PATHOLOGICAL FACTORS IN ALZHEIMER'S DISEASE - Mi Hee Lim, Ulsan National Institute of Science and Technology		272 Keynote Lecture	METAL IONS AS MEDICINES AND TOXINS AND HOW METAL ION HOMEOSTASIS CAN IMPACT SUCH ROLES - Debbie Crans, Colorado State University		
				249 Keynote Lecture	N-CONFUSED PORPHYRIN AS A SUPPORTING LIGAND FOR MODELLING SMALL-MOLECULE CONVERSION IN NITROGEN CYCLES - Chen-Hsiung Hung, Institute Of Chemistry		
				306 Keynote Lecture	ADVENTURES WITH METALLOCORROLES: RELATIVITY, CHIRALITY, AND MEDICAL APPLICATIONS - Abhik Ghosh, University Of Tromsø		
10:30 AM - 11:00 AM <b>Morning Tea Break</b>							
<b>Parallel Session 5</b>							
11:00 AM - 1:00PM		5A. Targeted Delivery and Novel Targets for Cancer Treatment Session Chair: Paul Donnelly Room: OGGB 4		5B. Imaging and Tracing of Biologically Relevant Species Session Chair: Hongzhe Sun Room: Case Room 2		5C. The Role of Metal Centers in Metalloproteins and Inhibitors Session Chair: Eva Freisinger Room: OGGB 5	
	318 Invited Lecture	NOVEL METAL DRUGS: TUMOR-SPECIFIC ACTIVATION AND IMPACT ON IMMUNE RESPONSE - Walter Berger, Medical University Vienna		11 Invited Lecture	REMOVAL OF URANIUM FROM CONTAMINATED WELLS AND SURFACE WATERS ON THE NAVAJO RESERVATION - Edward Rosenberg, University Of Montana		
	158 Invited Lecture	MODULATING PROTEIN-PROTEIN INTERACTION WITH GROUP 9 TRANSITION METAL COMPLEXES - Chung-Hang Leung, University Of Macau		280 Invited Lecture	CHALCOGEN-RICH ORGANIC MOLECULAR PROBES FOR INTENDED NEURODEGENERATIVE DISEASE PURPOSES - David Churchill, Korea Advanced Institute Of Science And Technology		
	146 Invited Lecture	NEW GADOLINIUM AGENTS FOR BINARY CANCER THERAPIES - Lou Rendina, University Of Sydney		93 Invited Lecture	MOLECULAR DYAD CAPABLE OF PRODUCTION AND DETECTION OF SINGLET OXYGEN - Youngmin You, Ewha Womans University		
	250 Invited Lecture	GOLD(III)-BASED GLYCOCONIUGATES FOR THE TARGETED ANTICANCER CHEMOTHERAPY - Luca Ronconi, National University of Ireland Galway		288 Invited Lecture	NEW CHEMISTRY OF O-BODIPY: BORON-OXYGEN-SACCHARIDE CONIUGATES - Penelope Brothers, University Of Auckland		
	173 Invited Lecture	METAL COMPLEXES OF TCM ACTIVE INGREDIENT OXO(ISO)APORPHINES: IN VITRO, IN VIVO ANTICANCER ACTIVITY AND ACTION MECHANISM - Zhen-Feng Chen, Guangxi Normal University		84 Oral Presentation	MEASUREMENT OF OXYGEN DYNAMICS INSIDE A SINGLE CELL BY PLIM - Toshiaki Kamachi, Tokyo Institute of Technology		
	176 Oral Presentation	IN VITRO AND IN VIVO EVALUATION OF RHEINUM(II)-NON-STEROIDAL ANTI-INFLAMMATORY DRUGS). DO THEY HAVE POTENTIAL AS BOWEL CANCER CHEMOPREVENTIVES? - Carolyn Dillon, University of Wollongong		59 Oral Presentation	A COLOR SERIES OF FLUORESCENT PROBES FOR DETECTION OF LABILE IRON IN LIVING CELLS - Tasuku Hirayama, Gifu Pharmaceutical University		
1:00 PM - 2:00 PM <b>Lunch Break</b>							
<b>Presentation of SciFinder by Andrew McKay of CAS</b> Room: OGGB 4							
<b>Parallel Session 6</b>							
2:00 PM - 4:00 PM		6A. Novel Concepts in Anticancer Metallodrug Development Session Chair: Muhammad Hanif Room: OGGB 4		6B. Bioinorganic Chemistry and Nanotechnology Session Chair: Guangyu Zhu Room: Case Room 2		6C. Nucleic Acids as Targets for Anticancer Agents and Beyond Session Chair: Roland Sigel Room: OGGB 5	
	242 Invited Lecture	STRUCTURE-ACTIVITY RELATIONSHIPS AND DNA COMPACTION EFFICIENCIES OF ANTICANCER TETRAZOLATO-BRIDGED DINUCLEAR PLATINUM(II) COMPLEXES - Seiji Kameda, Suzuka University of Medical Science		37 Invited Lecture	THE DESIGN AND NANO-DELIVERY OF ANTICANCER PLATINUM(IV) PRODRUGS - Yangzhong Liu, University of Science and Technology of China		
	227 Invited Lecture	BIOLOGICALLY USEFUL FUNCTIONAL MODELS OF METALLOENZYMES - Yutaka Hitomi, Doshisha University		135 Invited Lecture	SILVER NANOPARTICLES: OXIDATIVE RELEASE AND REDUCTIVE BIOSYNTHESIS - Chun-Nam Lok, The University of Hong Kong		
	115 Invited Lecture	ANTICANCER POTENTIAL OF RHEINUM(II) COMPLEXES - Justin Wilson, Cornell University		113 Invited Lecture	IN VIVO AND IN VITRO BIOINORGANIC FUNCTIONS DESIGNED WITHIN FERRITIN CAGE - Takafumi Ueno, Tokyo Institute Of Technology		
	244 Invited Lecture	GENERATING NEW ACTIVITY IN REDOX-ACTIVE METAL-BASED THERAPEUTICS THROUGH LIGAND DESIGN - Charles Walkby, Simon Fraser University		200 Oral Presentation	MOLECULAR SIMULATIONS ON PEPTIDE COATED GOLD NANOCUSTER FOR MEDICAL APPLICATION - Lina Zhao, Chinese Academy of Sciences		
	316 Invited Lecture	THE "YIN-YANG" ION-PAIRING FOR PREFERENTIAL NUCLEAR UPTAKE OF MEMBRANE-IMPERMEABLE METAL-POLYPYRIDYL THERANOSTICS IN LIVING CELLS - Ben-Zhan Zhu, The Chinese Academy of Sciences		219 Oral Presentation	QUANTIFYING THE BIOLOGICAL FATE OF NANOSILVER - David Kennedy, National Research Council of Canada		
	33 Oral Presentation	THE INVESTIGATION OF ANTICANCER PROPERTIES OF ER STRESS-MODULATING METAL-BASED COMPOUNDS - Maria Babak, National University Of Singapore		18 Oral Presentation	GOLD CLUSTERS SUPPRESS CHRONIC LYMPHOCYTIC LEUKEMIA CELLS BY INTERACTING WITH THIOREDIXIN REDUCTASE 1 AND INHIBITING ITS ACTIVITY TO INDUCE INTRACELLULAR OXIDATIVE STRESS AND APOPTOSIS - Xueyun Gao, Institute Of High Energy Physics		
	13 Oral Presentation	RUTHENIUM(II) DIRECTED SELF-ASSEMBLED ARCHITECTURES: BIOLOGICAL APPLICATIONS AND MOLECULAR TOPOLOGIES - Nem Singh, University of Ulsan		63 Oral Presentation	ELECTROCHEMICAL DIOXYGEN ACTIVATION BY THE DIIRON(II) COMPLEX SUPPORTED IN AN IONIC LIQUID-MODIFIED AU ELECTRODE - Hideki Masuda, Nagoya Institute of Technology		
4:00 PM - 5:00 PM <b>Teaching Bioinorganic Chemistry</b> Panel Members: Tapan Paine, Nils Metzler-Nolte, Alison Butler, Peng Chen, Hongzhe Sun Session Chair: Richard Hartshorn Room: Lecture Theatre 098							
5:00 PM - 7:00 PM <b>Poster Session 2: Even Numbers</b> <b>Sponsored by Chem from Cell Press</b>							
Biopsired	60	DESIGN AND CHARACTERISATION OF CU METALLOTETRAPEPTIDES BASED ON LACCASE ENZYME FOR CHEMICAL AND BIOCHEMICAL REACTIONS Prof. Mohd Basyaruddin Abdul Rahman, Universiti Putra Malaysia					
Biopsired	144	TOWARDS THE DEVELOPMENT OF PHOTOACTIVATABLE HNO DONORS: SYNTHESIS AND PHOTOLYSIS OF O-(2-NITROBENZYL)-PROTECTED ANALOGUES OF PILOTY'S ACID Vinay Bharadwaj Bangalore Shashidhar, Auckland University of Technology					

Bioinspired	44	DFT CALCULATIONS ON MECHANISM OF NOVEL CO-CATALYZED CO <sub>2</sub> REDUCTION REACTIONS Bei Gao, The University of Hong Kong
Bioinspired	138	SELECTIVE SYNTHESIS OF IRIIDIUM(III)-DERIVED TOPOLOGICAL ARCHITECTURES VIA COORDINATION-DRIVEN SELF-ASSEMBLY Prof. Ki-whan Chi, University of Ulsan
Bioinspired	142	IMPROVED PHOTOACTIVATABLE HNO DONORS: EFFECTS OF A SIMPLE MODIFICATION TO THE (HYDROXY-NAPHTHALENYL)METHYL PHOTOTRIGGER Ruth Cink, Auckland University of Technology
Bioinspired	206	NICKEL NITROSYL COMPLEXES SUPPORTED BY A PINCER TYPE PEP LIGAND; TETRAHEDRAL VS. SQUARE PLANAR GEOMETRY Jinseong Gwak, Korea Advanced Institute Of Science And Technology
Bioinspired	68	CYCLIC BISPORPHYRIN BASED MOLECULAR SWITCHES AND FUNCTIONAL MOLECULAR FLASKS Pritam Mondal, Indian Institute of Technology
Bioinspired	154	CHARACTERIZATION OF ONE-ELECTRON OXIDIZED Ni(II), Cu(II)-SALEN COMPLEXES WITH AN INDOLE RING Hiromi Oshita, Ibaraki University
Bioinspired	28	COORDINATION CHEMISTRY OF BIS(PYRAZOL-1-YL)ACETIC ACIDS Stephan Pflock, Friedrich-Alexander-Universität Erlangen-Nürnberg
Bioorganometallics	132	EXPLORING THE POTENTIAL ANTIPARASITIC PROPERTIES OF ORGANOSILANE HETEROCYCLIC COMPOUNDS Muneebah Adams, University of Auckland
Bioorganometallics	210	TWO-PHOTON AGGREGATION INDUCED EMISSION OF PLATINIUM(II) COMPLEX AS RATIONOMETRIC PLASMA MEMBRANE INTEGRITY SENSOR Dr. Yu Chen, Sun Yat-sen University
Bioorganometallics	192	ANTIMICROBIAL PROPERTIES OF GOLD(I) 1,2,3-TRIAZOL-5-YLIDENE "CLICK" CARBENE COMPLEXES Warrick Ken Cheung Lo, The Hong Kong Polytechnic University
Bioorganometallics	298	FUNCTIONALIZATION OF THE ARENE MOIETY IN NOVEL ANTICANCER ORGANOMETALLIC COMPLEXES Sanam Movassaghi, University of Auckland
Bioorganometallics	120	SYNTHESIS OF LUMINESCENT IR(III)-LN(III) COMPLEXES FOR ELECTROCHEMILUMINESCENCE (ECL) APPLICATIONS Pria Ramkissoon, La Trobe University
Bioorganometallics	284	BENZIMIDAZOLIUM-DERIVED N-HETEROCYCLIC CARBENE Ru(II) AND Os(II) ARENE COMPLEXES AS NOVEL ANTICANCER AGENTS Dianna Truong, University of Auckland
Bioorganometallics	314	TOWARDS ANTICANCER METAL COMPLEXES BASED ON NOVEL SAHA-DERIVED LIGANDS Jaekyoo Kim, University of Auckland
Metal Homeostasis	172	EFFECTS OF DOPAMINE AS A PRO-OXIDANT OR ANTIOXIDANT ON MULTIPLE PATHOLOGICAL FACTORS IN ALZHEIMER'S DISEASE Eunju Nam, Ulsan National Institute of Science and Technology
Metal Homeostasis	212	RESISTANCE OF CU(AB4-16) TO COPPER CAPTURE BY METALLOTHIONEIN-3 SUPPORTS A FUNCTION OF AB4-42 PEPTIDE AS SYNAPTIC CUII SCAVENGER. Ewelina Stefaniak, Institute of Biochemistry And Biophysics Polish Academy Of Sciences
Metal Homeostasis	34	ZN EXCESS LEADS TO ELEVATION OF INTRACELLULAR FE AND ACTIVATION OF CU EFFLUX IN E. COLI Zeling Xu, The University of Hong Kong
Metal Homeostasis	174	HIGH PERFORMANCE MICROBE DETECTION SYSTEM USING HYBRID-TYPE ARTIFICIAL IRON SIDEROPHORES Suguru Endo, Nagoya Institute of Technology
Metal Homeostasis	300	SIMPLIFIED CE-ICP-MS HYPHENATION FOR INFORMATIVE METAL-BASED ANTICANCER DRUG ANALYSIS Hannah Holtkamp, University of Auckland
Metalloproteins	190	A MECHANISM ON THE ALLOSTERIC ACTIVATION OF CU/ZN-SUPEROXIDE DISMUTASE Mami Fukuoka, Keio University
Metalloproteins	224	A FAMILY OF METAL-NTA-BASED PROBES FOR MULTIMODAL IMAGING: FROM FLUORESCENCE TO RAMAN Nan Jiang, The University of Hong Kong
Metalloproteins	130	A L-FUCOSE BIOSENSOR USING A CATALYTIC DOMAIN OF PYRROLOQUINOLINE QUINONE-DEPENDENT PYRANOSE DEHYDROGENASE Ryo Kusuoka, Tokyo University of Agriculture And Technology
Metalloproteins	160	CHELATING LIGANDS SUITABLE AS PHD2 INHIBITORS Marleen Mayer, Friedrich-Alexander-Universität Erlangen-Nürnberg
Metalloproteins	118	CRYSTAL STRUCTURE OF A PHOTODIODE CARH USING ADENOSYLCOBALAMIN AS A PHOTOSENSING UNIT Norifumi Muraki, Institute For Molecular Science
Metalloproteins	222	ACETATE ANION PROMOTED OXIDATION OF AROMATIC COMPOUNDS CATALYZED BY FATTY ACID-SPECIFIC PEROXYGENASES Hirotaki Onoda, Nagoya University.
Metalloproteins	232	INTERACTION ANALYSIS OF THE EXTRACELLULAR HEME ACQUISITION PROTEIN AND ITS OUTER MEMBRANE RECEPTOR FROM PSEUDOMONAS AERUGINOSA Yuma Shisaka, Nagoya University
Metalloproteins	230	CONTROL OF STEREOSELECTIVITY IN THE MONOOXYGENATION OF NON-NATIVE SUBSTRATES CATALYSED BY CYTOCHROME P450BM3 USING DECOY MOLECULES Kazuto Suzuki, Nagoya University
Metalloproteins	128	EFFECTS OF MUTATIONS AT THE ENTRANCE OF THE SUBSTRATE CHANNEL ON THE SUBSTRATE BINDING AFFINITY OF THERMOPHILIC CYTOCHROME P450 Naoya Tsuruoka, Tokyo University of Agriculture And Technology
Metalloproteins	322	ACTIVE SITE MODIFICATION OF CYSTEINE DIOXYGENASE TO STABILISE A REACTIVE INTERMEDIATE Casey Davies, University of Otago
Nucleic Acids	78	RUTHENIUM COMPLEXES FOR ENANTIOSELECTIVE DNA-IMAGING IN LIVE CELL AND PHOTOACTIVATION BY A YIN-YANG ION-PAIRING METHOD Xijuan chao, Sun Yat-sen University
Nucleic Acids	226	ENHANCED DNA INVASION BY METAL COMPLEX-PNA CONJUGATE Masaki Hibino, Nagoya University
Nucleic Acids	124	COPPER(II) PYRIDINE COMPLEXES OF 2,4-DIHYDROXYBENZALDEHYDE N,N-DISUBSTITUTED ALIPHATIC SEMICARBAZONES: SYNTHESIS, CYTOTOXICITY AND DNA BINDING AFFINITY Jin Tai Kelvin Koh, Nanyang Technological University and National Institute of Education
Nucleic Acids	228	DNA CLEAVAGE BY IRON-BLEOMYCIN MIMICS Akiko Nomura, Doshisha University
Nucleic Acids	178	BENZOPHENONE SCHIFF BASE COMPLEXES AS QUADRUPLE DNA BINDERS Son Q.T. Pham, University of Wollongong
Energy	62	ARTIFICIAL PHOTOSYNTHETIC MODELS BASED ON ASSEMBLIES OF BODIPY/PORPHYRIN, PHTHALOCYANINE, AND C60 MOIETIES Xiaofei Chen, The Chinese University of Hong Kong
Metals in Medicine	162	PREPARATION, CHARACTERISATION AND ANTI-CANCER POTENTIAL OF AN ARSENIC-THIOGLUCOSE COMPLEX: SWEET SELECTIVITY? Judith Carrall, University of Wollongong
Metals in Medicine	270	LUMINESCENT PLATINIUM(II) COMPLEXES WITH FUNCTIONALIZED N-HETEROCYCLIC CARBENE OR DIPHOSPHINE SELECTIVELY PROBE MISMATCHED AND ABASIC DNA Sin Ki Fung, The University of Hong Kong
Metals in Medicine	46	ANTIOXIDANT DESFERRIOXAMINE B ANALOGUES IN PARKINSON'S DISEASE Dr. Michael Gotsbacher, University of Sydney
Metals in Medicine	24	COPPER AND PLATINIUM IN CANCER Marcus Graziotto, University of Sydney
Metals in Medicine	64	DEVELOPMENT OF AN AND LOGIC GATE BASED ON A BODIPY-DECORATED CUBIC POLYHEDRAL OLIGOMERIC SILSESQUOXANE Shenghua Han, The Chinese University of Hong Kong
Metals in Medicine	74	MECHANISMS OF ANTITUMOR EFFECTS OF NEW PLATINIUM(II) COMPLEX WITH THE NON-STEROIDAL ANTI-INFLAMMATORY AGENT Jana Kasparkova, Institute of Biophysics, Academy of Sciences of the Czech Republic
Metals in Medicine	38	GALLIUM COMPLEXES FOR RADIOPHARMACEUTICAL APPLICATION Huijing Koay, University of Melbourne
Metals in Medicine	150	CYCLOMETALATED IR(III) COMPLEXES CONJUGATED WITH DICHLOROACETATE FOR MITOCHONDRIA-TARGETED PHOTODYNAMIC THERAPY: DESTROYING CANCER CELL METABOLISM IN SYNERGY Jiangping Liu, Sun Yat-Sen University
Metals in Medicine	186	PHENANTHROLINE BASED MONO-COPPER COMPLEXES SELECTIVELY KILLED CANCER CELLS AND INHIBITED ANGIOGENESIS AND TUMOUR METASTASIS Xiangchao Shi, Nanjing University

Metals in Medicine	40	NEUTRAL OXORHENIUM(V) COMPLEXES OF TETRAEDENTATE N3S AND N4 LIGANDS Benjamin Spyrrou, The University of Melbourne
Metals in Medicine	2	ENHANCEMENT OF MODEL PROOF-OF PRINCIPLE PRODRUGS FOR PROSTATE CANER Elisabeth Tondi, University of Sydney
Metals in Medicine	70	A DUAL TARGETING MONOFUNCTIONAL PLATINUM(II) COMPLEX SHOWING POTENT ACTIVITY AGAINST HUMAN OVARIAN CANCER CELL RESISTANCE Kun Wang, Nanjing University
Metals in Medicine	214	BISMUTH COMPOUNDS AS NOVEL ANTAGONISTS AGAINST TOXICITY OF CISPLATIN Running Wang, The University of Hong Kong
Nanotechnology	164	ULTRABRIGHT LANTHANIDE NANOPARTICLES FOR MEDICAL APPLICATIONS Joan Goetz, Hong Kong Baptist University and Centre National de la Recherche Scientifique
Nanotechnology	122	A MULTI-FUNCTIONAL PEGYLATED GOLD(III) COMPOUND: POTENT ANTI-CANCER PROPERTIES AND SELF-ASSEMBLY INTO NANOSTRUCTURES FOR DRUG CO-DELIVERY Ka Chung Tong, The University of Hong Kong
6:30 PM PM - 8:00 PM <b>ASBIC Council Meeting (Case Room 3)</b>		

### Wednesday December 7, 2016

9:00 AM - 10:00 AM	<b>Plenary Speaker: Nils Metzler-Nolte, Ruhr University Bochum</b> <b>311 LABELLING OF BIOACTIVE PEPTIDES WITH METAL COMPOUNDS: CHEMISTRY, STRUCTURAL BIOLOGY, AND BIOLOGICAL ACTIVITY</b> Session Chair: Uli Schatzschneider Room: Lecture Theatre 098									
10:00 AM - 10:30 AM	<b>Parallel Session 7</b> Session Chair: Elizabeth New Room: OGGB 4		Session Chair: Peter Lay Room: OGGB 5		Session Chair: Allan Blackman Room: Case Room 2		Session Chair: Alexey Nazarov Room: OGGB 3			
	91 Keynote Lecture	REAL-TIME INTRAVITAL IMAGING OF PH VARIATION ASSOCIATED WITH OSTEOCLAST ACTIVITY USING BODIPY BASED TWO PHOTON EXCITATION PROBES - Kazuya Kikuchi, Osaka University	307 Keynote Lecture	CORRELATED OPTICAL AND MASS SPECTROMETRIC MICROSCOPY IMAGING VISUALIZES THE RECOGNITION BETWEEN CISPLATIN-DAMAGED DNA AND HMGB1 IN SINGLE CELLS - Fuji Wang, Institute of Chemistry	246 Keynote Lecture	MOLECULAR CATALYSTS DESIGNED FOR WATER OXIDATION - Shigeyuki Masaoka, Institute For Molecular Science	236 Keynote Lecture	BIOHYBRID CATALYSTS WITH ORGANOMETALLIC COMPLEXES - Takashi Hayashi, Osaka University		
10:30 AM - 11:00 AM	<b>Morning Tea Break</b>									
	<b>Parallel Session 8</b> Session Chair: Elizabeth New Room: OGGB 4		8A. Imaging of Metals and Metals in Imaging Session Chair: Peter Lay Room: OGGB 5		8B. Metallomics in Bioinorganic Chemistry Session Chair: Allan Blackman Room: Case Room 2		8C. Bioinorganic Chemistry and Energy Session Chair: Alexey Nazarov Room: OGGB 3		8D. Bioorganometallic Anticancer Agents	
	193 Invited Lecture	THE DEVELOPMENT OF COPPER-BASED IMAGING AND THERAPEUTICS AGENTS - Paul Donnelly, University Of Melbourne	54 Invited Lecture	THERMODYNAMIC AND KINETIC CORRELATION BETWEEN COORDINATION MODE AND REACTIVITY OF COPPER BINDING TO AB PEPTIDES AND APP PROTEIN DOMAINS - Zhiqiang Xiao, University of Melbourne	225 Invited Lecture	HYDROGENASE AND ITS MIMICS FOR FUEL CELL ELECTRODES - Matsumoto Takahiro, Kyushu University	289 Invited Lecture	ANTICANCER RUTHENIUM ARENE SCHIFF-BASE COMPLEXES WHICH ACT VIA APOPTOSIS-INDEPENDENT PATHWAYS - Wee Han Ang, National University Of Singapore		
	58 Invited Lecture	DESIGNER MACROCYCLES USING METAL-TEMPLATED SYNTHESIS - Rachel Codd, University Of Sydney	294 Invited Lecture	PROTEOMICS FOR UNDERSTANDING METALLODRUG EFFECTS - Samuel Meier, Cardiff University	51 Invited Lecture	DEVELOPMENT OF ROBUST AND EFFICIENT MOLECULAR CATALYSTS BASED ON EARTH-ABUNDANT METALS FOR CO2 REDUCTION - Sharon Lai-Fung Chan, The Hong Kong Polytechnic University	168 Invited Lecture	RUTHENIUM CYCLOMETALATED COMPOUNDS AS POWERFUL ANTICANCER AGENTS. RECENT CONTRIBUTIONS TO THE UNDERSTANDING OF THEIR MECHANISM OF ACTION. - Michel Pfeffer, University of Strasbourg		
	107 Invited Lecture	BISPECIFIC ANTIBODY CONJUGATED MANGANESE-BASED MAGNETIC ENGINEERED IRON OXIDE FOR IMAGING OF HER2/NEU- AND EGFR-EXPRESSING TUMORS - Yun-Ming Wang, National Chiao Tung University	223 Invited Lecture	THE ROLE OF IRON METALLOPROTEINS IN ALZHEIMER'S DISEASE. - Blaine Roberts, The Florey Institute of Neuroscience and Mental Health	180 Invited Lecture	ASSEMBLIES OF FUNCTIONAL DYES AS ARTIFICIAL PHOTOSYNTHETIC MODELS - Dennis K. P. Ng, The Chinese University of Hong Kong	216 Invited Lecture	ORGANOMETALLIC ANALOGUES OF ANTIMITOTIC ANTICANCER DRUGS: IMPACT OF AN ORGANOMETALLIC MOIETY ON THE MODE OF ACTION OF ANTICANCER AGENTS - Damian Plazuk, University of Lodz		
11:00 AM - 1:00PM	151 Invited Lecture	BIOCOMPATIBLE LANTHANIDE MATERIALS FOR TUMORS TARGETING, IMAGING AND INHIBITION - Gary Ka-Leung Wong, Hong Kong Baptist University	166 Oral Presentation	METALLOMIC QUANTIFYING METALS IN METALLOPROTEINS: THE LEVELS OF HG AND SE BINDING TO SERUM SELENOPROTEINS FROM METHYLMERCURY-POISONED RATS AFTER SE TREATMENT - Yu-Feng Li, Chinese Academy of Sciences	169 Invited Lecture	A CONCERNED PROTON-ELECTRON TRANSFER-INVOLVED CATALYSIS BY FE-S ELECTROCATALYSTS FOR HYDROGEN EVOLUTION - Ming-Hsi Chiang, Academia Sinica	67 Invited Lecture	MOLECULAR MODELLING OF ORGANOMETALLIC ANTICANCER COMPOUNDS - Johannes Reynisson, University Of Auckland		
	126 Invited Lecture	GROWTH INHIBITION OF PSEUDOMONAS AERUGINOSA BY HASA WITH SYNTHETIC METAL COMPLEXES AND A NOVEL ELUMINATION SYSTEM OF BACTERIA BY PHOTO-IRRADIATION - Osami Shoji, Nagoya University	88 Oral Presentation	UNLOCKING THE BOX: IDENTIFICATION OF ELEMENT-PROTEIN INTERACTIONS IN ENDOLYMPH FROM THE INNER EAR OF FISH AND SUBSEQUENT IMPLICATIONS FOR THE USE OF OTOLITH MICROCHEMISTRY IN ENVIRONMENTAL RECONSTRUCTIONS - Oliver Thomas, The University of Melbourne	8 Invited Lecture	BIO-INSPIRED ELECTROCATALYSTS FOR THE OXYGEN REDUCTION REACTION IN FUEL CELLS - Jin-Gang Liu, East China University Of Science And Technology	114 Oral Presentation	MECHANISTIC STUDY OF CANCER CELL DEATH INDUCED BY CATIONIC AMPHIPHILIC TRIS-CYCLOMETALATED IRIIDIUM (III) COMPLEX AND ITS INTERACTION WITH TARGET PROTEIN - Yosuke Hisamatsu, Tokyo University Of Science		
	251 Oral Presentation	VISUALISING THE INTERACTIONS OF METAL-BASED DRUGS WITH CELLS - Jacek Kolonowski, University of Sydney	254 Invited Lecture	XFM AND XAS COMBINED YIELD INSIGHT ON MAMMALIAM SELENIUM BIOCHEMISTRY - Hugh Harris, University of Adelaide	16 Oral Presentation	DYE MOLECULE-BIOCATALYST HYBRID SYSTEM WITH VISIBLE-LIGHT INDUCED CARBON-CARBON BOND FORMATION FROM CO2 AS A FEEDSTOCK - Yutaka Amao, Osaka City University	194 Oral Presentation	EXPLOITATION OF THE ALLOSTERIC RELATIONSHIP BETWEEN RAPTA-T AND AURANOFIN ON THE NUCLEOSOME CORE PARTICLE IN THE DESIGN OF NOVEL ANTI-CANCER AGENTS - Lucinda Batchelor, Ecole Polytechnique Fédérale de Lausanne		
	198 Oral Presentation	AMYLOID-B TARGETTING CU(II) COMPLEXES OF BIS(THIOSEMICARBAZONE) LIGANDS: NEW POSITRON-EMISSION TOMOGRAPHY IMAGING AGENTS TO ASSIST IN THE DIAGNOSIS OF ALZHEIMER'S DISEASE - Noor Asif, University of Melbourne					66 Oral Presentation	PHOTOCATALYTIC IRIIDIUM(III) COMPLEXES FOR TWO-PHOTON PHOTODYNAMIC THERAPY OF HYPOXIC TUMOURS - Pingyu Zhang, University of Warwick		
1:00 PM - 2:00 PM	<b>Lunch Break</b>									
1:45 PM - 2:00 PM	<b>Afternoon Excursions Depart</b>									

### Thursday December 8, 2016

9:00 AM - 10:00 AM	<b>Plenary Speaker: Tapan K Paine, Indian Association for the Cultivation of Science</b> <b>276 DIOXYGEN ACTIVATION AND BIOINSPIRED OXIDATIONS BY MONONUCLEAR NONHEME IRON COMPLEXES</b> Session Chair: Guy Jameson Room: Lecture Theatre 098									
10:00 AM - 10:30 AM	<b>Parallel Session 9</b> Session Chair: James Wright Room: OGGB 4		Session Chair: Sally Plush Room: Case Room 2		Session Chair: Jose Moura Room: OGGB 5		Session Chair: Curt Davey Room: OGGB 3			
	265 Keynote Lecture	CATALYTIC ANTICANCER COMPLEXES - Peter Sadler, University of Warwick	53 Keynote Lecture	NEW SENSITIVE ASSAYS FOR DETECTION OF CERULOPLASMIN AND ATPASES - Anthony Wedd, University Of Melbourne	76 Keynote Lecture	CONSTRUCTION OF HEME PROTEIN SUPRAMOLECULES BY DOMAIN SWAPPING - Shun Hirota, Nara Institute of Science and Technology	239 Keynote Lecture	SWITCHING AND TWITCHING OF REGULATORY RNAS BY METAL IONS AND THEIR COMPLEXES - Roland K. O. Sigel, University of Zurich		
10:30 AM - 11:00 AM	<b>Morning Tea Break</b>									
	<b>Parallel Session 10</b> Session Chair: James Wright Room: OGGB 4		10A. Novel Aspects in Medicinal Inorganic Chemistry Session Chair: Sally Plush Room: Case Room 2		10B. Homeostasis and Metal Accumulation Session Chair: Jose Moura Room: OGGB 5		10C. Structures of Proteins and their Metal Co-Factors Sponsored by Rigaku Session Chair: Curt Davey Room: OGGB 3		10D. DNA and Related Nucleic Acids as Targets for Metal Ions	
	29 Invited Lecture	DINUCLEAR RUTHENIUM/OSMIUM ARENE COMPLEXES: SYNTHESIS, CONFORMATION AND ANTICANCER ACTIVITY - Hong-Ke Liu, Nanjing Normal University	188 Invited Lecture	INTRACELLULAR SENSORS, CYTOTOXIC AGENTS, AND BIOORTHOGONAL PROBES DERIVED FROM PHOTOACTIVE RHENIUM(I), RUTHENIUM(II), AND IRIIDIUM(III) POLYPYRIDINE COMPLEXES - Kenneth Kam-Wing Lo, City University of Hong Kong	184 Keynote Lecture	SPECTROSCOPIC AND STRUCTURAL STUDIES OF HISTIDINE-RICH METALLOTHIONEINS - Eva Freisinger, University of Zurich	199 Invited Lecture	CYTOTOXIC COPPER(II) COMPLEXES OF SALICYLALDEHYDE SEMICARBAZONES: G-QUADRUPLEX BINDING AND MODE OF ACTION STUDIES - Yaw Kai Yan, National Institute Of Education, Nanyang Technological University, Singapore		
	262 Invited Lecture	BIOLOGICAL ACTIVITY OF PHOTOACTIVATED CO-RELEASING MOLECULES (PHOTOCORMS) - Ulrich Schatzschneider, Julius Maximilians Universität Würzburg	112 Invited Lecture	NICKEL RECOGNITION BY NICKEL-TRAFFICKING PROTEINS IN H. PYLORI. - Michael Maroney, University Of Massachusetts	161 Invited Lecture	SUBSTRATE SPECIFICITY IN THIOL DIOXYGENASES - Guy Jameson, University Of Otago	49 Invited Lecture	CONTROLLED ARRANGEMENT OF BIOORGANOMETALLIC CONJUGATES WITH NUCLEOBASES - Toshiyuki Moriyuchi, Osaka University		

11:00 AM - 1:00PM	125 Invited Lecture	C1 CONVERSION AT A SINGLE NICKEL CENTER INSPIRED BY ACS/CODH - Yunho Lee, Korea Advanced Institute Of Science And Technology	111 Invited Lecture	TUNGSTATE ACCUMULATION AND CARCINOGENESIS IN BONE - Scott Bohle, McGill University	282 Invited Lecture	EVOLUTION OF COMPLEXITY: A SINGLE DIMER-INTERFACE MUTANT ALTERS TERTIARY AND QUATERNARY STRUCTURE LEADING TO A DODECAMER AND INACTIVE MANGANESE SUPEROXIDE DISMUTASE - Geoffrey Jameson, Massey University	50 Oral Presentation	CHARACTERIZATION OF COMPLEXES BETWEEN HEMES AND PARALLEL G-QUADRUPLEX DNAs - Yasuhiko Yamamoto, University of Tsukuba
	305 Invited Lecture	ANTITUMOR EFFECTS AND MECHANISMS OF METAL COMPLEXES WITH MOLECULE AND ORGANELLE-TARGETING - Zong-Wan Mao, Sun Yat-Sen University	202 Invited Lecture	METAL HOMEOSTASIS IN LATE LIFE: AGEING, SENESECE AND DISEASE - Gawain McColi, The Florey Institute Of Neuroscience	17 Oral Presentation	STRUCTURES OF UREASE ACCESSORY PROTEINS AND THEIR INSIGHTS INTO UREASE MATURATION IN HELICOBACTER PYLORI - Kam Bo Wong, The Chinese University Of Hong Kong	256 Oral Presentation	NOVEL TRANS-[PT(ALKALOID)CL2(DMSO)] COMPLEXES BASED INDOLOQUINAZOLINE ALKALOIDS ISOLATED FROM CHINESE TRADITIONAL MEDICINES: SYNTHESIS, ANTICANCER ACTIVITIES AND INTERACTIONS WITH G-QUADRUPLEX DNA - Mingxiong Tan, Yulin Normal University
	82 Invited Lecture	BIOORGANOMETALLIC ANTIPLASMODIAL AGENTS: NEW STRATEGIES TOWARDS TARGETING RISING RESISTANCE - Gregory Smith, University of Cape Town	204 Invited Lecture	THE MECHANISMS AND REGULATION OF IRON INTAKE IN EARLY POSTNATAL LIFE - Greg Anderson, QIMR Berghofer Medical Research Institute	87 Oral Presentation	INVESTIGATING PEROXIDASE REACTION MECHANISM OF HUMAN CYTOCHROME C. - Rinky Parakra, Otago university	10 Oral Presentation	POLYAROMATIC PLATINUM COMPLEXES – NEW ITERATIONS AND DETAILED BIOPHYSICAL DNA ANALYSES - Benjamin Pages, Western Sydney University
	139 Oral Presentation	PHOTO-ACTIVATED CO RELEASING MOLECULES - Manja Kubel, Monash University	48 Oral Presentation	MOLECULAR DESIGN OF CADMIUM-SPECIFIC FLUORESCENT SENSORS - Yuji Mikata, Nara Women's University	201 Oral Presentation	A FOLDING INTERMEDIATE OF CU/ZN-SUPEROXIDE DISMUTASE IS SUSCEPTIBLE TO ABNORMAL OLIGOMERIZATION IMPLICATED IN AMYOTROPHIC LATERAL SCLEROSIS - Itsuki Anzai, Keio University		
	57 Oral Presentation	ORGANOMETALLIC DRUG CONJUGATES WITH ANTIPLASMODIAL ACTIVITY - Prinessa Chellan, Stellenbosch University	14 Oral Presentation	DECONSTRUCTING THE DESFERRIOXAMINE B BIOSYNTHETIC SEQUENCE CATALYSED BY DESD - Thomas Telfer, University of Sydney	167 Oral Presentation	A DUAL ROLE OF CYSTEINE RESIDUES IN THE ACTIVATION OF ESCHERICHIA COLI CU/ZN-SUPEROXIDE DISMUTASE - Yoshiaki Furukawa, Keio University		

1:00 PM - 2:00 PM **Lunch Break**

**Graeme Hanson Symposium**  
Session Chair: Trevor Hambley and Peter Comba  
Room: Lecture Theatre 098

2:00 PM - 4:00 PM	42 Keynote Lecture	GRAEME HANSON AS A PHD STUDENT Anthony Wedd, University Of Melbourne						
	320 Invited Lecture	CONTINUOUS WAVE AND PULSE EPR SPECTROSCOPY TO STUDY PARAMAGNETIC MOLECULES – HOW GOOD IS THE RESOLUTION? Jeffrey Harmer, University Of Queensland						
	127 Keynote Lecture	COORDINATION CHEMISTRY OF CYCLIC PEPTIDES: POSSIBLE BIOLOGICAL FUNCTIONS OF THE PATELLAMIDES Peter Comba, Heidelberg University						
	260 Invited Lecture	PURPLE ACID PHOSPHATASE: A JOURNEY INTO THE FUNCTION AND MECHANISM OF A COLORFUL ENZYME Gerhard Schenk, The University Of Queensland						

4:00 PM - 4:30 PM **Afternoon Tea Break**

**Graeme Hanson Symposium**  
Session Chair: Trevor Hambley and Peter Comba  
Room: Lecture Theatre 098

4:00 PM - 6:00PM	217 Invited Lecture	CLASS I BACTERIAL KETOL-ACID REDUCTOISOMERASES: STRUCTURE, MECHANISM, AND INHIBITION Luke Guddat, The University Of Queensland						
	248 Keynote Lecture	DIRECT AND INDIRECT MOLYBDENUM ENZYME ELECTROCHEMISTRY Paul Bernhardt, University Of Queensland						
	27 Award Lecture	RESPONSIVE RUTHENIUM COMPLEXES FOR LIGHT-TRIGGERED DRUG RELEASE AND LIVE CELL IMAGING Anna Renfrew, University Of Sydney						
	22 Award Lecture	A BIOMIMETIC OXIDATION STRATEGY FOR THE RECOGNITION AND LUMINESCENT DETECTION OF SUPEROXIDE Ho Yu Au-Yeung, The University Of Hong Kong						

**Friday December 9, 2016**

9:00 AM - 10:00 AM **Plenary Speaker: Hongzhe Sun, University of Hong Kong**  
**271 INTEGRATIVE METALLOMIC APPROACH TO IDENTIFY METALLOPROTEINS**  
Session Chair: Fuyi Wang  
Room: Lecture Theatre 098

10:00 AM - 10:30 AM	Parallel Session 11 Session Chair: Anna Renfrew Room: OGGB 4		Session Chair: Hugh Harris Room: OGGB 5		Session Chair: Muneebah Adams Room: OGGB 3		
	105 Keynote Lecture	RECENT ADVANCES IN MEDICINAL APPLICATIONS OF RUTHENIUM AND IRON COMPLEXES - Chi-Ming Che, The University of Hong Kong	291 Keynote Lecture	METAL SPECIATION OF DRUGS IN BIOLOGICAL MEDIA USING X-RAY ABSORPTION SPECTROSCOPY - Peter Lay, University Of Sydney	134 Keynote Lecture	ANTICANCER RUTHENIUM COMPOUNDS WITH TARGETING LIGANDS - Alexey Nazarov, M.V. Lomonosov Moscow State University	

10:30 AM - 11:00 AM **Morning Tea Break**

11:00 AM - 1:00PM	Parallel Session 12 Session Chair: Anna Renfrew Room: OGGB 4		12A. The Roles of Metal Ions in Neurological Diseases		12B. Metal Speciation in Biological Environment Sponsored by Chem from Cell Press Session Chair: Hugh Harris Room: OGGB 5		12C. Bioorganometallic Compounds - Towards New Drugs Session Chair: Muneebah Adams Room: OGGB 3	
	99 Invited Lecture	TARGETING THE AMYLOID-BETA PEPTIDE WITH METAL COMPLEXES - Tim Storr, Simon Fraser University	264 Keynote Lecture	FLUORESCENT IMAGING OF BIOLOGICAL INORGANIC SPECIES - Zijian Guo, Nanjing University	286 Invited Lecture	ORGANOMETALLIC COBALAMIN ANTICANCER DERIVATIVES FOR TARGETED PRODRUG DELIVERY VIA TRANSCOBALAMIN-MEDIATED UPTAKE - Fabio Zobi, University of Fribourg		
	152 Invited Lecture	VANADIUM COMPLEXES AS POTENTIAL AGENTS FOR THE ALZHEIMER'S DISEASES - Xiaoda Yang, Peking University Health Science Center	96 Invited Lecture	GOLD AND SILVER CATALYSIS FOR BICONJUGATION AND MOLECULAR IMAGING - Man-Kin Wong, The Hong Kong Polytechnic University	32 Invited Lecture	STRUCTURE ACTIVITY RELATIONSHIPS DETERMINING ORGANOSELENIUM AND ORGANOTELLURIUM DRUG ACTIVITY - Gregory Giles, University Of Otago		
	281 Invited Lecture	PULSED EPR STUDY OF METAL-AMYLOID PEPTIDES - Sun Hee Kim, Korea Basic Science Institute	312 Invited Lecture	METALLOPROTEIN-LIGAND BINDING INTERACTIONS BY NMR SPECTROSCOPY - Ivanhoe Leung, The University of Auckland	47 Oral Presentation	HALF-SANDWICH ORGANORIDIUM COMPLEXES: ANTICANCER AGENTS AND CATALYSTS - Zhe Liu, Qufu Normal University		
	266 Invited Lecture	COINCIDENT PROTEIN PATHOLOGY IN PARKINSON'S DISEASE AND AMYOTROPHIC LATERAL SCLEROSIS: A SHARED PATHWAY FOR NEURONAL DEATH? - Kav Double, University Of Sydney	23 Oral Presentation	REVERSIBLE RATIO-METRIC FLUORESCENT PROBES FOR OXIDATIVE STRESS - Angela Torrisi, University of Sydney	92 Oral Presentation	PHOTOACTIVABLE DUAL TARGETING RUTHENIUM(II) POLYPYRIDYL ANTICANCER COMPLEXES - Yao Zhao, Chinese Academy of Sciences		
	95 Invited Lecture	TARGETING MIS-REGULATION OF COPPER IN NEURODEGENERATION - Anthony White, QIMR Berghofer Medical Research Institute	30 Oral Presentation	NEW FLUOROPHORES FOR STUDYING CHEMICAL ENVIRONMENTS IN CELLS - Kate Leslie, University of Sydney	255 Oral Presentation	FROM HYDROLYTICALLY STABLE METAL-ARENE COMPLEXES TO ORALLY ACTIVE ANTICANCER AGENTS - Muhammad Hanif, University of Auckland		
	319 Invited Lecture	ACETYLCHOLINESTERASE AND Aβ AGGREGATION INHIBITION BY MONONUCLEAR RU(II) AND HETEROMETALLIC RU(II)-PT(II) POLYPYRIDYL COMPLEXES - Avinash Kumbhar, Savitribai Phule Pune University	290 Oral Presentation	A GREEN AND SUSTAINABLE METHOD TO REMOVE CO(II) IONS FROM WASTEWATER - Hafsa Mubeen, University of Education Lahore	147 Oral Presentation	THE 1,2-BENZOTHAZINE SCAFFOLD AS A LIGAND IN RUII(H6-P-CYME) COMPLEXES: SYNTHESIS AND ANTITUMOR ACTIVITY - Adnan Ashraf, University Of Sargodha		
	156 Oral Presentation	EVOLVEMENT OF DRUGS FOR ALZHEIMER'S DISEASE FROM METAL CHELATORS TO CONFORMATIONAL MODULATORS - Xiaoyong Wang, Nanjing University	321 Invited Lecture	OXALIPLATIN CHEMOTHERAPY: BENCH TO BEDSIDE - Mark McKeage, University of Auckland	179 Oral Presentation	RHENIUM COMPLEXES OF N-HETEROCYCLIC CARBENE LIGANDS THAT BIND TO AMYLOID PLAQUES OF ALZHEIMER'S DISEASE - Peter Barnard, La Trobe University		

1:00 PM - 2:00 PM **Lunch Break**

2:00 PM - 3:00 PM	<b>Plenary Speaker: Peng Chen, Peking University</b> <b>273</b> TRANSITION METAL-MEDIATED SIGNALING TRANSDUCTIONS AT THE HOST-PATHOGEN INTERFACE Session Chair: James Crowley Room: Lecture Theatre 098
3:00 PM - 4:00 PM	<b>AsBIC Outstanding Achievement Award Lecture: Shunichi Fukuzumi, EWHA Womans University</b> <b>317</b> NEW STRATEGIES FOR BIOINSPIRED ARTIFICIAL PHOTOSYNTHESIS Session Chair: Wonwoo Nam Room: Lecture Theatre 098
4:00 PM - 4:30 PM	<b>Closing of the Conference (OGGB Level 0, Room 098)</b> Room: Lecture Theatre 098
6:30 PM - 11:00 PM	<b>Conference Dinner (OGGB Level 1)</b>