



**IBS**  
2016


17th International  
Biotechnology  
Symposium  
and Exhibition  
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## IBS 2016, Draft Program

DRAFT: 14/07/2016

Monday 24 October 2016			
8.00am	Conference registration & exhibition opens		
9.00 – 9.45am	Welcome to IBS 2016 and AusBiotech 2016 Minister <b>Dr Anna Lavelle</b> , CEO, AusBiotech IUPAC Opening; <b>Prof Francesco Nicotra</b> , Vice-President of IUPAC Division III, University of Milano-Bicocca, Italy		
9.45 – 10.30am	Keynote Plenary <b>Mr Paul Perreault</b> , CEO and Managing Director, CSL Ltd, USA 		
10.30 – 11.00am	Morning Tea Break and networking with exhibitors		
	<b>Breakout 1: The structure, function and digestion of food</b>	<b>Breakout 2: Biobased production</b>	<b>Breakout 3: Glycomics</b>
	Chair:	Chair:	Chair: <b>Prof Mark von Itzstein</b> , Director, Institute for Glycomics, Griffith University
11.00 – 11.30am	Keynote: <b>A/Prof Sally Gras</b> , Director, ARC Dairy Innovation Hub	Keynote1 : <b>Jamie Rodriguez</b> , Director, Centre of Biotechnology, University of Concepción, Chile (20 mins) <i>Lipid and pigments produced by wood biodegrading microorganism isolated from native forest</i>	Keynote 1: 25 mins <b>Prof Dr Rita Gerardy-Schahn</b> , Director and Professor, Institute for Cellular Chemistry, Hannover Medical School, Germany Keynote 2: 20 mins

		Keynote 2: <b>Prof David James</b> , Professor of Bio Process Engineering, Sheffield University UK (20 mins)	<b>Prof Richard Payne</b> , Professor of Organic Chemistry and Chemical Biology and ARC Future Fellow, School of Chemistry, The University of Sydney
11.30 – 11.45am 11.45am – 12.00pm 12.00 – 12.15pm 12.15 – 12.30pm	Speaker 1: <b>Prof Ben Boyd</b> , Professor in Drug Delivery Sciences, Monash University Speaker 2: <b>Prof Jason Stokes</b> , Professor and Director of Research, The University of Queensland - INVITED Speaker 3: <b>Dr Trevor Lockett</b> , Theme Leader Colorectal Cancer, CSIRO Q&A	Speaker 1: <b>Dr Wayne Patrick</b> , Senior Lecturer, University of Otago, New Zealand <i>Engineering superior DNA ligase enzymes for biomolecular applications</i> Speaker 2: <b>A/Prof Johan Verbeek</b> , Associate Professor, University of Waikato, New Zealand <i>New products for special needs, a new life for protein by-products</i> Q&A	Keynote 3: 20 mins <b>Prof Richard Furneaux</b> , Director, The Ferrier Research Institute, Victoria University of Wellington, New Zealand <i>Is there a chemical code for the diverse biological activities of heparan sulfate?</i> Panel 25mins
12.30 – 1.30pm	Lunch Break and networking with exhibitors		
	<b>Breakout 4: BioRefinery</b>	<b>Breakout 5: IP Global Update</b>	<b>Breakout 6: Nanobiotech</b>
	Chair: <b>Prof Emile van Zyl</b> , Senior Chair of Energy Research in Biofuels, Stellenbosch University, South Africa	Chair: <b>Lorraine Chiroiu</b> , Chief Industry Affairs Officer, AusBiotech	Chair:
1.30 – 2.00pm	Keynote: <b>Prof Akihiko Kondo</b> , Professor, Kobe University, Japan <i>Development of microbial cell factories for consolidated bioprocessing by synthetic biology platform</i>	Panel: <b>Dr Lisa Haile</b> , Partner & Co-Chair Global Life Sciences Sector, DLA Piper LLP, USA <b>Tania Obranovich</b> , Special Council, Watermark <b>John Tessensohn</b> , Board Member Shusaku. Yamamoto, Japan <b>Dr Charles Harding</b> , Partner, D Young & Co, UK	Keynote 1: <b>Prof Justin Gooding</b> , Scientia Professor and Founding Co-director, The Australian Centre for NanoMedicine, UNSW <i>3D printing of cells</i> Keynote 2: <b>Prof Max Lu</b> , Vice-Chancellor, University of Surrey UK
2.00 – 2.15pm 2.15 – 2.30pm 2.30 – 2.45pm 2.45 – 3.00pm	Speaker 1: <b>Prof Danilo Porro</b> , Professor, University of Milano-Biocca, Italy <i>Molecular and process design for chemical productions in yeasts cell factories</i> Speaker 2: <b>Prof Kristala Jones Prather</b> , Associated Professor, Massachusetts Institute of Technology, USA <i>In search of a better enzyme: biocatalyst screening to facilitate pathway engineering</i>		Speaker 1: <b>Prof Gordon Wallace</b> , Chief Investigator, University of Wollongong Speaker 2: <b>Prof Soong Ho Um</b> , Associate Professor, Sungkyunkwan University, South Korea <i>A DNA Origami-based Fluorescent System for Rapid and Selective Diagnosis of Cytosolic RNA Cancer Markers</i> Q&A


3.00 – 3.30pm	Afternoon Tea Break and networking with exhibitors		
	<b>Breakout 7: Plant Molecular Biology</b>	<b>Breakout 8: Bioremediation &amp; Waste Remediation</b>	<b>Breakout 9: Vaccine Development</b>
	Chair: <b>Prof Ian Godwin</b> , Professor in Plant Molecular Genetics, The University of Queensland	Chair:	Chair: <b>Prof Mark Kendall</b> , Group Leader, Delivery of Drugs and Genes Group AIBN, The University of Queensland
3.30 – 4.00pm	Keynote 1: <b>Prof German Spangenberg</b> , Executive Director, AgriBio Centre <i>Advances and prospects in forage systems biology and molecular breeding</i>	Keynote: <b>Prof Linda Blackall</b> , Professor of Biosciences and Academic Director of Research Training, Swinburne University of Technology <i>Treatment of urban solid waste by composting with a focus on pathogen removal from the final product</i>	Keynote: <b>Prof Alan Cowman</b> , Head, Division of Infection and Immunity, The Walter and Eliza Hall institute of Medical Research <i>Current state of vaccine development for malaria</i>
4.00 – 4.15pm 4.15 – 4.30pm 4.30 – 4.45pm 4.45 – 5.00pm	Speaker 1: <b>Prof Ian Godwin</b> , Professor in Plant Molecular Genetics, The University of Queensland <i>Transgenic cereals with enhanced end-use qualities</i> Speaker 2: <b>Prof Jimmy Botella</b> , Professor of Plant Biotechnology University of Queensland <i>No equipment? No electricity? No problem! A simple, low-cost molecular/nanotechnology-based diagnostic system for crop, animal and human diseases.</i> Speaker 3: <b>Prof Tomas Macek</b> , Professor of Biochemistry, University of Chemistry and Technology, Prague, Czech Republic <i>Transgenic plants tailored to overcome stressing conditions or improve phytoremediation</i> Q&A	Speaker 1: <b>A/Prof Mike Manefield</b> , Associate Professor, School of Biotechnology and Biomolecular Sciences, UNSW <i>Bioremediation of organochlorines in Australia</i> Speaker 2: <b>Prof Gary Schenk</b> , ARC Future Fellow and Reader, The University of Queensland Speaker 3 Q&A	Speaker 1: <b>A/Prof Michael Nissen</b> , Director of Scientific Affairs & Public Health, GSK Vaccines, Singapore Speaker 2: <b>Prof Paul Young</b> , Professor of Virology and Head of School, The University of Queensland Speaker 3 Q&A
5.00 – 6.30pm	Welcome reception IBS 2016 and AusBiotech 2016 <i>Supported by CSL</i>		
			

Tuesday 25 October 2016				
7.00am	Conference registration opens			
7.30 – 8.45am	<p><b>How To make life changing products available to more people sooner.</b>  <b>Presenter:</b> Chad Fox - President of MasterControl Asia</p> <p>Join us and experience our version of MasterControl quality management. You will see firsthand the essence of our mission statement; To make life changing products available to more people sooner.</p> <p><i>Spaces are limited; please express interest during the registration process. Spaces will be confirmed in early September.</i></p>			
8.30am	Exhibition hall opens			
8.45 – 9.20am	<p><b>Biotechnology and innovation: risk and precaution: social license or not?</b>  <b>Prof Sir Peter Gluckman</b>, Chief Science Advisor to the Prime Minister, Office of the Prime Minister, New Zealand</p>			
9.20 – 9.55am	<p><b>Millis Oration</b>  <b>Prof Ian Gust AO</b>, Professorial Fellow, University of Melbourne</p>			
9.55 – 10.30am	Plenary 2A: TBC J&J			
10.30 – 11.00am	Morning Tea Break and networking with exhibitors			
	<b>Breakout 10: Algae</b>	<b>Breakout 11:</b>	<b>Breakout 12:</b> <b>Nano-biotechnology: from Drug Delivery to Tissue Regeneration</b>	<b>Breakout 12a: Pharmaceutical, Medical and Molecular</b>
	Chair: <b>Prof Volker Sieber</b> , Chair, Chemistry of Biogenic Resources, Technical University of Munich, Germany		Chair: <b>Prof Francesco Nicotra</b> , Vice-President of IUPAC Division III, University of Milano-Bicocca, Italy	Chair:
11.00 – 11.30am	Keynote: <b>Prof Peer Schenk</b> , Professor, School of Agriculture and Food Sciences, University of Queensland <i>Microalgal biorefineries to cost-effectively produce food, feed and biofuel</i>	<b>Prof Muftah El-Naas</b> , Qafco Chair Professor, Qatar University, Qatar <i>Biotechnology in the Oil and Gas Industry: Potentials for the Treatment of Processed Water</i> <b>Dr Boris Kolvenbach</b> , Research	Keynote: <b>Prof Gert Storm</b> , Utrecht University, The Netherlands <i>Targeted nanomedicine to address challenges in the delivery of biotech drug products</i>	<b>Prof Stefan Oscarson</b> , Professor In Chemical Biology, University College Dublin, Ireland <i>Development of a conjugate vaccine against Cryptococcus neoformans based on synthetic capsular</i>

		Assistant, University Of Applied Sciences And Arts Northwestern Switzerland <i>Multifactorial investigation of sulfonamide antibiotics biodegradation in five wastewater treatment plants</i> <b>Prof Yao Nie</b> , Professor, Jiangnan University, China <i>Structure-based enzyme engineering combined with kinetic profiling of substrate libraries: alcohol dehydrogenases for efficient synthesis of bulky chiral alcohols</i> <b>Mattana Tunchai</b> , Hiroshima University, Japan <i>Identification and characterization of chemotactic transducers for a non-natural enantiomer of malate in Ralstonia solanacearum</i> <b>Dr Haiqin Chen</b> , Professor, Jiangnan University, China <i>Application of a delta-6 desaturase with <math>\alpha</math>-linolenic acid preference on eicosapentaenoic acid production in Mortierella alpine</i> <b>Dr Maulin Shah</b> , Chief Scientist & Head, Enviro Technology Limited, India <i>Systematic Study of Microbial Community Structure of ammonia oxidizing bacteria in Activated Sludge System</i>		<i>polysaccharide structures</i>
11.30 – 11.45am 11.45am – 12.00pm 12.00 – 12.15pm 12.15 – 12.30pm	Speaker 1: <b>Dr Sasi Nayar</b> , Phytoplankton Biologist and Subprogram Leader, South Australian Research and Development Institute Speaker 2: <b>Andrew Lawson</b> , Managing Director, MBD Energy Ltd Speaker 3: <b>Mary Ibarra-Vidal</b> , Master Student, University Of Calgary <i>Auxenochlorella Protothecoides as a source of lipids and antioxidants</i>  Q&A		Speaker 1: <b>Prof Teruyuki Nagamune</b> , Professor, The University of Tokyo, Japan <i>Dynamic micro-patterning and sorting of mammalian cells on photo-cleavable PEG-lipid modified surface</i> Speaker 2: <b>Dr Raghavendra Kikkeri</b> , Assistant Professor, Indian Institute of Science Education and Research, India Speaker 3: <b>Prof Laura Cipolla</b> , Dept. Biotechnology and Biosciences, University of Milano-Bicocca, Italy <i>Nanostructured biomaterials for tissue regeneration: connecting carbohydrate and material chemistry</i> Q&A	<b>Dr Fatemeh Dabbagh</b> , Assistant Professor, Faculty Of Pharmacy And Pharmaceutical Sciences, Hormozgan University Of Medical Sciences, Iran <i>Human urate oxidase pseudogene engineering in an effort to develop humanized forms of uricase as an important biopharmaceutical</i> <b>Dr Thu-Ha Nguyen</b> , Senior post-doc, University of Natural Resources and Life Sciences, Vienna, Austria <i>Protein display on the Lactobacillus plantarum cell surface</i> <b>Dr Xudong Wang</b> , Post Doctoral , Dalian University of Technology, China <i>PEGylation Kinetics of Recombinant Hirudin and its Application for Process Optimization</i> <b>Gurvinder Kalra</b> , Phd Student, Swinburne University Of Technology <i>Genetic diversity of Hin genes in barley and potential implications for grain texture variations</i>

12.30 – 1.30pm	Lunch Break and networking with exhibitors			
	<b>Breakout 13: Commercialisation of biotech from universities</b>	<b>Breakout 14: Bioprocessing in biomanufacturing</b>	<b>Breakout 15: Drug Development</b>	<b>Breakout 15a: Nano-biotechnology</b>
	Chair:	Co-Chairs: <b>Prof Murray Moo-Young</b> , Distinguished Professor Emeritus, University of Waterloo, Canada <b>Prof Tomas Macek</b> , Professor of Biochemistry, University of Chemistry and Technology, Prague, Czech Republic	Chair: <b>Prof Ross Barnard</b> , Director of Biotechnology Programs, The University of Queensland	Chair: <b>Prof Francesco Nicotra</b> , Vice-President of IUPAC Division III, University of Milano-Bicocca, Italy
1.30 – 2.00pm	Keynote: <b>Dr Noel Chambers</b> , CEO, National Foundation for Medical Research and Innovation <i>Getting rubber to hit the road: funding research for impact</i>	Keynote: <b>Prof Fengwu Bai</b> , Distinguished Professor, Biochemical Engineering, Shanghai Jiao Tong University, China <i>Bioreactor and bioprocess engineering strategies for the production of bulk commodities</i>	Keynote 1: <b>Prof Stefano Ciurli</b> , Professor Department of Pharmacy and Biotechnology, University of Bologna, Italy (20 Mins) <i>'Catalysis and inhibition mechanisms of urease, a nickel enzyme, made crystal clear: a prodrome to drug discovery and development'</i>	<b>Dr Hang Ta</b> , NHMRC Early Career Research Fellow, Australian Institute For Bioengineering And Nanotechnology, University Of Queensland <i>Targeting imaging contrast and live cells in cardiovascular disease via a chemo-biotechnological approach</i>
2.00 – 2.15pm 2.15 – 2.30pm 2.30 – 2.45pm 2.45 – 3.00pm	Speaker 1: <b>Dr Jim Henderson</b> , Chief Operating Officer, UNSW Innovations Speaker 2: <b>Dean Moss</b> , Chief Executive Officer, UniQuest Speaker 3: <b>Anna Grocholsky</b> , Director of Commercialisation and innovation, Macquarie University Bench to bedside Q&A	Speaker 1: <b>Thanasak Lomthong</b> , Kasetsart University, Thailand <i>Cloning, Expression and Characterization of Poly(L-lactide)-Degrading Enzyme from Laceyella sacchari LP175 in Escherichia coli and Application of the Recombinant Enzyme for Hydrolysis of Poly(L-lactide) Polymer</i> Speaker 2: <b>Ahmad Kajis</b> , Universiti Putra, Malaysia <i>Comparative Study of Lipase-catalysed Kojic Acid Esters Synthesis in Stirred-tank, Fluidized and Packed Bed Bioreactors</i> Speaker 3: <b>Dr Yanyan Li</b> , Jiangnan University, China	Speaker 1: <b>Dr Chetan Goudar</b> , Director, ATO Cell Science and Technology, Amgen, USA Speaker 2: <b>Prof Darren Kelly</b> , CEO and Managing Director, Occrux Speaker 3: <b>Dr Evan Siegel</b> , CEO, Ground Zero Pharmaceuticals, USA <i>Critical Regulatory Programs for Rapidly Advancing New Biotechnology Products into Clinical Trials and Marketing Applications</i> Q&A	<b>Dr Sreejith Raveendran</b> , Post Doctoral Research Fellow, Toyo University, Bio Nano Electronics Research Centre, Japan <i>Dual Targeted Gold Nanocages Induce Lysosome Impaired Diffusion and Apoptosis in Breast Cancer Cells</i> <b>Dr Peng-Yuan Wang</b> , DECRA, Fellow, Swinburne University <i>Modulation of human stem cell behaviour using binary colloidal crystal substrates</i> <b>Bhuvana Kamath Shanbhag</b> , Phd Student, Monash University <i>Noncovalent self-assembly of</i>

		<i>Increasing L-isoleucine production in Corynebacterium glutamicum</i> Q&A		<i>enzymes into nanoparticles as advanced nanobiocatalysts</i>
3.00 – 3.30pm	Afternoon Tea Break and networking with exhibitors			
	<b>Breakout 16: Pharmaceutical, Medical and Molecular.</b>	<b>Breakout 16a</b>	<b>Breakout 18: Convergence Biotechnology</b>	<b>Breakout 18a:</b>
	Chair: <b>Prof Gary Schenk</b> , Professor of Biophysical Chemistry, The University of Queensland	Chair:	Chair: <b>Dr Tai Hyun Park</b> , Professor, School of Chemical and Biological Engineering, Seoul National University, South Korea	Chair:
3.30 – 4.00pm	Keynote: <b>A/Prof Max Cryle</b> , Group Leader, EMBL Australia	<b>Nur Eliyana Mohd Redhuan</b> , Lecturer, Universiti Malaysia Kelantan, Malaysia <i>Comparison of Loop-Mediated Isothermal Amplification (LAMP) and PCR in detection of Equine Herpes Virus</i>	Keynote: <b>Prof Eiichi Tamiya</b> , Professor, Osaka University, Japan <i>Single cells and organs on chips for biomedical diagnosis and drug screening</i>	<b>Prof Yan Sun</b> , Professor, Tianjin University, China <i>Ion-Exchange Chromatography of Proteins with Grafted Charged Polymer Chains</i>
4.00 – 4.15pm 4.15 – 4.30pm 4.30 – 4.45pm 4.45 – 5.00pm	Speaker 1: <b>Dr Kade Roberts</b> , Senior Research Scientist, Monash University <i>Development of New Polymyxin Antibiotics with Improved Safety and Efficacy</i> Speaker 2: <b>Jin Hu</b> , Tsinghua University, China <i>Elastin-like polypeptide fused interferon with superior pharmacokinetics, biodistribution and antitumor efficacy</i> Speaker 3: <b>Ji Hoon Park</b> , Pusan National University, Korea <i>Nitric oxide-releasing poly(lactico-glycolic acid) nanofiber matrices for application to wound</i>	<b>Qianqian Xu</b> , PhD Student, University Of Science And Technology Beijing, China <i>Effects of Dietary Chlorella USTB-01 on Growth Performance and Cecal Microbiota in Broilers</i> <b>Le Lyu</b> , University Of Science And Technology Beijing, China <i>Influence of four potassium releasing bacteria on tobacco growth and rhizosphere soil</i> <b>Fangyan Chen</b> , Associate Professor, South China Agricultural University, China <i>Studies on Chloride Ion Channel</i>	Speaker 1: <b>Prof Man Bock Gu</b> , Department of Biotechnology, Korea University, Korea <i>Sandwich-type Biosensors and In vitro Diagnostic Systems using a Pair of Aptamers and Nanomaterials</i> Speaker 2: <b>Prof Sung Ok Han</b> , Department of Biotechnology, Korea University, Korea <i>Designer Nano-scale Protein Complexes for C1/3/5/6 Biorefinery</i> Speaker 3: <b>A/Prof Alice Lee</b> , Senior lecturer, UNSW <i>Plasmonic Nanoparticle-Immunodiagnostic Systems for Food Quality and Safety Monitoring</i> Speaker 4: <b>Dr Tai Hyun Park</b> , Professor, School of Chemical and Biological Engineering, Seoul	<b>Prof Chunzhao Liu</b> , Institute of Process Engineering, Chinese Academy of Sciences, China <i>Functional Magnetic Nanoparticles for Protein Capture</i> <b>Prof Xiao-Wei Yu</b> , Professor, Jiangnan University, China <i>Role of N-linked glycosylation in the secretion and enzymatic properties of Rhizopus chinensis lipase expressed in Pichia pastoris</i> <b>Dr Chen-Guang Liu</b> , A/Prof, Shanghai Jiao Tong University, China <i>Redox potential control for enhancement of Saccharomyces cerevisiae tolerance to inhibitors</i>

	healing Q&A	<i>Protein Genes and Coenzyme in Diapause Termination of Silkworm, Bombyx mori</i>	National University, South Korea <i>Olfactory and Taste Sensors: Integration of Biotechnology and Nanotechnology</i> Q&A	<i>from lignocellulosic biomass</i> <b>Hana Stiborova</b> , Research Assistant, UCT Prague, Czech Republic <i>Biotransformation of waste products from poultry industry</i> <b>Dr Nur Asshifa Md Noh</b> , Senior Lecturer, Universiti Sains Malaysia <i>Rhamnolipid production in Pseudomonas aeruginosa USM-AR2 fermentation using renewable insoluble substrates in a bioreactor integrated with an oil separation system</i>
7.00 – 11.00pm	IBS 2016 and AusBiotech 2016 official conference dinner Supported by Patheon 			

Wednesday 26 October 2016				
8.30am	Conference registration & exhibition open			
9.00 – 9.45am	<b>A New Model for Drug Development in Academic Institutions</b> <b>Prof Dennis Liotta</b> , Executive Director Emory Institute for Drug Development, Emory College, Atlanta USA			
9.45 – 10.30am	<b>Interrogating and Guiding the Microbiome for Macro-organism Health and Productivity</b> <b>Dr James Tiedje</b> , Director, Centre for Microbial Ecology, Michigan State University, USA			
10.30 – 11.00am	Morning Tea Break and networking with exhibitors			
	<b>Breakout 19: Biocatalysis</b>	<b>Breakout 20: Biofuels and Bioenergy</b>	<b>Breakout 21: Industrial Bioactive Discovery and Development</b>	<b>Breakout 21a: Interfacial Chemistry for Biomaterials and Biotechnology</b>
	Chair: <b>Dr Colin Scott</b> , Group Leader Environmental & Industrial Biotechnology, CSIRO	Chair: <b>Prof Akihiko Kondo</b> , Professor, Kobe University, Japan	Chair: <b>Dr Jess Smith</b> , Associate, FB Rice	Chair: <b>A/Prof David Beattie</b> , Chair: RACI Division of Interfaces, Colloids, and Nanomaterials
11.00 – 11.30am	Keynote: <b>Prof Nicholas Turner</b> ,	Keynote: <b>Prof Emile van Zyl</b> , Senior	Keynote:	<b>Prof Vincent Ball</b> , Professor,



	<p>Professor, The University of Manchester, UK</p> <p><i>Biocatalytic Cascade Reactions Enabled by Synthetic Biology</i></p>	<p>Chair of Energy Research in Biofuels, Stellenbosch University, South Africa</p>	<p><b>Dr James Crawford</b>, Chemistry Team Leader, Small Molecule Drug Discovery, Genentech, USA</p> <p><i>Discovery of non-covalent BTK inhibitors for the treatment of rheumatoid arthritis and lupus</i></p>	<p>University of Strasbourg, France</p>
<p>11.30 – 11.45am</p> <p>11.45am – 12.00pm</p> <p>12.00 – 12.15pm</p> <p>12.15 – 12.30pm</p>	<p>Speaker 1: <b>Dr Colin Jackson</b>, Leader - Chemical and Structural Biotechnology, Australian National University</p> <p>Speaker 2: <b>Dr Claudia Vickers</b>, Associate Group Leader and Accelerate Fellow, Australian Institute for Bioengineering and Nanotechnology</p> <p><i>Engineering microbial production of isoprenoid-based biofuels and biochemicals</i></p> <p>Speaker 3: <b>Dr Carol Hartley</b>, Research Scientist &amp; Biocatalysis Team Leader, CSIRO</p>	<p>Speaker 1: <b>Prof Gunnar Liden</b>, Professor, Lund University, Sweden</p> <p><i>High-solids processing of lignocellulosic biomass to sugars and ethanol</i></p> <p>Speaker 2: <b>Juan Xia</b>, Shanghai Jiao Tong University, China</p> <p><i>The regulation of flocculation by c-di-GMP phosphoesterase genes in <i>Zymomonas mobilis</i></i></p>	<p>Speaker 1: <b>Prof Maree Smith</b>, Executive Director, The University of Queensland</p> <p><i>Discovery-Translation and the Valley of Death: A Personal Perspective</i></p> <p>Speaker 2: <b>Georgina Kilfoil</b>, Chief Clinical Officer, Benitec Biopharma</p> <p><i>Optimization of product development in a small company: trusting the process. A case study in two types of clinical trial failure</i></p> <p>Speaker 3: <b>Dr Paul Stupp</b>, Director of Medicinal Chemistry, Cancer Therapeutics CRC</p> <p><i>The Discovery of Potent and Selective Inhibitors of the Arginine Methyl Transferase PRMT5</i></p>	<p><b>Prof Nico Voelcker</b>, Professor, University of South Australia</p> <p><b>Prof Sally McArthur</b>, Director, Swinburne Innovation Precinct, Swinburne University Of Technology</p> <p><i>Controlling Biology at Surfaces: Exploring the effects of micro/nanostructure and chemistry on bacterial adhesion</i></p> <p><b>Donna Menzies</b>, OCE Postdoctoral Fellow, CSIRO</p>
12.30 – 1.30pm	Lunch Break and networking with exhibitors			
	<b>Breakout 22: BioFuel/BioEnergy production</b>	<b>Breakout 23: Drug discovery in academic institutions</b>	<b>Breakout 24: Clean environmental sustainability and pollution abatement</b>	<b>Breakout 24a:</b>
	<p>Chair: <b>Prof Peer Schenk</b>, Professor, School of Agriculture and Food Sciences, University of Queensland</p>	<p>Chair: <b>Mark Ashton</b>, Executive Director, Intellectual Property Commercialisation, UniQuest</p>	<p>Co-Chairs: <b>Prof Murray Moo-Young</b>, Distinguished Professor Emeritus, University of Waterloo, Canada</p> <p><b>Prof Tomas Macek</b>, Professor of Biochemistry, University of</p>	

			Chemistry and Technology, Prague, Czech Republic	
1.30 – 2.00pm	Keynote: <b>Prof Volker Sieber</b> , Chair, Chemistry of Biogenic Resources, Technical University of Munich, Germany	Keynote: <b>Mark Ashton</b> , Executive Director, Intellectual Property Commercialisation, UniQuest	Keynote: <b>Prof Murray Moo-Young</b> , Distinguished Professor Emeritus, University of Waterloo, Canada <i>Waste as a misplaced resource: biofuels from biomass residues</i>	<b>Prof Hai Yan</b> , Professor, University Of Science And Technology Beijing, China <i>Biodegradation of Nodularin by Sphingopyxis sp. USTB-05</i> <b>Dr Arpana Jobanputra</b> , Assistant Professor, PSGVPM's, ASC College, Shahada, India <i>Biotransformation of Antibiotics: A Promising Pharmaceutical Approach to Combat MDR</i> <b>Peng Huadong</b> , Phd Student, Department Of Chemical Engineering, Monash University <i>Investigate the contribution of yeast consensus sequence (YCS) to heterologous expression of Arabidopsis thaliana diacylglycerol acyltransferase in Saccharomyces cerevisiae for fatty acid production</i> <b>Dr Ahmad Ramli Mohd Yahya</b> , Associate Professor, Universiti Sains, Malaysia <i>Natural antibiotics and biosurfactants from mangrove actinomycetes</i> <b>Dr Guo-Chao Xu</b> , Associate Professor, Jiangnan University, China <i>Crystal structure of tyrosine decarboxylase and identification of key residues involved in</i>
2.00 – 2.15pm 2.15 – 2.30pm 2.30 – 2.45pm 2.45 – 3.00pm	Speaker 1: <b>Dr Paul Bennett</b> , Science Leader, Clean Technologies, Scion, New Zealand Speaker 2: <b>Dr William Rowlands</b> , Chief Scientist, Licella, New Zealand Speaker 3: <b>Dr Allan Green</b> , Research Director – Bioproducts, CSIRO Food & Nutrition <i>Leaf oils – game-changing technology creating scalable, low-cost, renewable fuel feedstocks</i>  Q&A	Panel: Q&A	Speaker 1: <b>Prof Eugenia Olquin</b> , Professor, National Institute of Ecology and Climate Change, Mexico <i>Phytoremediation and phycoremediation as core tools in a sustainable biorefinery</i> Speaker 2: <b>Prof Ondrej Uhlík</b> , A/Prof, Group Leader, University of Chemistry and Technology, Prague, Czech Republic Speaker 3: <b>Dr Libing Chu</b> , Associate Professor, Tsinghua University, China <i>Biological denitrification using biodegradable polymer PBS as carbon source to remove nitrate from groundwater and bacterial community analysis of biofilm</i> Q&A	

				<i>conformational swing and substrate binding</i>
3.00 – 3.30pm	Afternoon Tea Break and networking with exhibitors			
	<b>Breakout 25: Marine Biotechnology and Aqua Culture</b>	<b>Breakout 26: Chemistry to Biology a new manufacturing possibility</b>	<b>Breakout 27: BioFuels and BioEnergy.</b>	<b>Breakout 27a:</b>
	Chair: <b>Prof Wei Zhang</b> , Director, Centre for Marine Bioproducts Development, Flinders University	Chair: <b>A/Prof Ian O’Hara</b> , Principal Research Scientist, Queensland University of Technology	Chair: <b>Prof Fengwu Bai</b> , Distinguished Professor, Biochemical Engineering, Shanghai Jiao Tong University, China	
3.30 – 4.00pm	Keynote 1: <b>Prof Tadashi Matsunaga</b> , President Tokyo University of Agriculture and Technology, Japan <i>New technologies for bioenergy production using algae and other aquatic microorganisms</i> Keynote 2: <b>Prof Wei Zhang</b> , Director, Centre for Marine Bioproducts Development, Flinders University <i>Australia National Marine Science Plan: Putting Marine Biotechnology and Bioproducts into the Economic Agenda</i>	Keynote: <b>Prof Shi-Zhong Li</b> , Executive director, US-Sino Joint Center for Biofuel Research, Tsinghua University, China	Keynote: <b>Dr Guo-Hua Miao</b> , Director, DuPont, China <i>Biofuels Development: from Discovery to Commercialization</i>	<b>Prof Nicolas Moitessier</b> , Professor, Mcgill University, Canada <i>Computational methods for Drug Design and Development - Development and Applications to Drug Discovery</i> <b>Dr Haiyang Zhang</b> , Postdoc Fellow, University of Science and Technology Beijing, China <i>Evaluation of Generalized Born Models for Affinity Prediction of Cyclodextrin Host–Guest Complexes</i> <b>Dr Satoshi Yamaguchi</b> , Lecturer, The University Of Tokyo, Japan <i>Photolytic protein aggregates for controlled release of active protein</i> <b>Dr Bong-Hyuk Choi</b> , Research Assistant Professor, Postech, South Korea <i>Mussel adhesive protein-based bone-specific multifunctional artificial extracellular matrix for</i>
4.00 – 4.15pm 4.15 – 4.30pm 4.30 – 4.45pm 4.45 – 5.00pm	Speaker 1: <b>Dr Scott Smid</b> , Deputy Head, Discipline of Pharmacology The University of Adelaide <i>Drug discovery and development targeting neuroprotection in marine and aquatic organisms</i> Speaker 2	Speaker 1: <b>Dr Tom Williams</b> , Research Fellow In Synthetic Biology, Macquarie University Speaker 2: <b>A/Prof Robert Speight</b> , Associate Professor, Microbial Biotechnology, Queensland University of Technology Speaker 3 Q&A	Speaker 1: Prof Yang Mu, Professor, University of Science and Technology of China, China <i>Biohydrogen production from wastewater in microbial electrolysis cells</i> Speaker 2: Way Khor, Phd Student, Ghent University, Belgium <i>Production of Medium Chain Fatty</i>	

			<p><i>Acids from Grass</i>  Speaker 3 : Dr Irnia Nurika, Senior Lecturer/Assoc.Prof, University of Brawijaya, Indonesia</p> <p><i>Evidence for the mechanisms involved in the degradation of lignocellulose in wheat straw by Serpula lacryman</i></p> <p>Q&amp;A</p>	<p><i>bone tissue engineering</i>  <b>Prof Muftah El-Naas</b>, Qafco Chair Professor, Qatar University, Qatar</p> <p><i>Biotechnology in the Oil and Gas Industry: Potentials for the Treatment of Processed Water</i></p>
5.00 – 6.00pm	International BioFest Networking Reception, networking for all three BioFest events Canapes, drinks, live entertainment and networking			

Thursday 27 October 2016	
8.30am	Conference registration opens
9.00 – 9.45am	<p><b><i>Self-Assembled Supramolecular Nanosystems for Targeting Therapy of Intractable Diseases</i></b>  <b>Prof Kazunori Kataoka</b>, Professor, Department of Materials Engineering and Bioengineering Graduate Schools of Engineering, University of Tokyo, Japan</p>
9.45 – 10.30am	<p><b><i>Synthetic Designer Vaccines Protect from Bacterial Infections</i></b>  <b>Prof Dr Peter Seeberger</b>, Director, Max-Planck Institute of Colloids and Interfaces, Germany</p>
10.30 – 11.00am	Morning Tea Break and networking
11.00 – 11.45am	<b><i>Biotech and the future of man</i></b>

	<b>Prof Huanming Yang</b> , President, BGI-Shenzhen, China
1.45am – 12.30pm	<b><i>Development of Peptide and Peptidomimetic Therapeutic Agents from a New Zealand Perspective</i></b> <b>Prof Margaret Brimble</b> , Distinguished Professor, The University of Auckland, New Zealand
12.30 – 1.00pm	IBS 2016 Closing Reception Nicolas Moitessier, Canadian Society for Chemistry
1.00 – 2.00pm	IBS 2016 Closing lunch and drinks