



IBS
2016

17th International
Biotechnology
Symposium
and Exhibition
www.ibs2016.org

IBS 2016, Draft Program


DRAFT: 1/08/2016

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

		Keynote 2: Prof David James , Professor of Bio Process Engineering, Sheffield University UK (20 mins)	Prof Richard Payne , 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: Prof Ben Boyd , Professor in Drug Delivery Sciences, Monash University Speaker 2: Prof Jason Stokes , Professor and Director of Research, The University of Queensland - INVITED Speaker 3: Dr Trevor Lockett , Theme Leader Colorectal Cancer, CSIRO Q&A	Speaker 1: Dr Wayne Patrick , Senior Lecturer, University of Otago, New Zealand <i>Engineering superior DNA ligase enzymes for biomolecular applications</i> Speaker 2: A/Prof Johan Verbeek , 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 Prof Richard Furneaux , 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		
	Breakout 4: BioRefinery	Breakout 5: IP Global Update	Breakout 6: Nanobiotech
	Chair: Prof Emile van Zyl , Senior Chair of Energy Research in Biofuels, Stellenbosch University, South Africa	Chair: Lorraine Chiroiu , Chief Industry Affairs Officer, AusBiotech	Chair:
1.30 – 2.00pm	Keynote: Prof Akihiko Kondo , Professor, Kobe University, Japan <i>Development of microbial cell factories for consolidated bioprocessing by synthetic biology platform</i>	Panel: Dr Lisa Haile , Partner & Co-Chair Global Life Sciences Sector, DLA Piper LLP, USA Tania Obranovich , Special Council, Watermark John Tessensohn , Board Member Shusaku. Yamamoto, Japan Dr Charles Harding , Partner, D Young & Co, UK	Keynote 1: Prof Justin Gooding , Scientia Professor and Founding Co-director, The Australian Centre for NanoMedicine, UNSW <i>3D printing of cells</i> Keynote 2: Prof Max Lu , Vice-Chancellor, University of Surrey UK
2.00 – 2.15pm 2.15 – 2.30pm 2.30 – 2.45pm 2.45 – 3.00pm	Speaker 1: Prof Danilo Porro , Professor, University of Milano-Biocca, Italy <i>Molecular and process design for chemical productions in yeasts cell factories</i> Speaker 2: Prof Kristala Jones Prather , Associated Professor, Massachusetts Institute of Technology, USA <i>In search of a better enzyme: biocatalyst screening to facilitate pathway engineering</i>		Speaker 1: Prof Gordon Wallace , Chief Investigator, University of Wollongong Speaker 2: Prof Soong Ho Um , 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		
	Breakout 7: Plant Molecular Biology	Breakout 8: Bioremediation & Waste Remediation	Breakout 9: Vaccine Development
	Chair: Prof Ian Godwin , Professor in Plant Molecular Genetics, The University of Queensland	Chair:	Chair: Prof Mark Kendall , Group Leader, Delivery of Drugs and Genes Group AIBN, The University of Queensland
3.30 – 4.00pm	Keynote 1: Prof German Spangenberg , Executive Director, AgriBio Centre <i>Advances and prospects in forage systems biology and molecular breeding</i>	Keynote: Prof Linda Blackall , 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: Prof Alan Cowman , 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: Prof Ian Godwin , Professor in Plant Molecular Genetics, The University of Queensland <i>Transgenic cereals with enhanced end-use qualities</i> Speaker 2: Prof Jimmy Botella , 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: Prof Tomas Macek , 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: A/Prof Mike Manefield , Associate Professor, School of Biotechnology and Biomolecular Sciences, UNSW <i>Bioremediation of organochlorines in Australia</i> Speaker 2: Prof Gary Schenk , ARC Future Fellow and Reader, The University of Queensland Speaker 3 Q&A	Speaker 1: A/Prof Michael Nissen , Director of Scientific Affairs & Public Health, GSK Vaccines, Singapore Speaker 2: Prof Paul Young , Professor of Virology and Head of School, The University of Queensland <i>Clamping sub-unit viral vaccines: constraining the conformation of recombinant viral fusion proteins in their pre-fusion form enhances vaccine potency</i> 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>How To make life changing products available to more people sooner. Presenter: 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>Biotechnology and innovation: risk and precaution: social license or not? Prof Sir Peter Gluckman, Chief Science Advisor to the Prime Minister, Office of the Prime Minister, New Zealand</p>			
9.20 – 9.55am	<p>Millis Oration Prof Ian Gust AO, Professorial Fellow, University of Melbourne</p>			
9.55 – 10.30am	Plenary 2A: TBC			
10.30 – 11.00am	Morning Tea Break and networking with exhibitors			
	Breakout 10: Algae	Breakout 11:	Breakout 12: Nano-biotechnology: from Drug Delivery to Tissue Regeneration	Breakout 12a: Pharmaceutical, Medical and Molecular
	Chair: Prof Volker Sieber , Chair, Chemistry of Biogenic Resources, Technical University of Munich, Germany		Chair: Prof Francesco Nicotra , Vice-President of IUPAC Division III, University of Milano-Bicocca, Italy	Chair:
11.00 – 11.30am	Keynote: Prof Peer Schenk , Professor, School of Agriculture and Food Sciences, University of Queensland <i>Microalgal biorefineries to cost-effectively produce food, feed and biofuel</i>	Prof Muftah El-Naas , Qafco Chair Professor, Qatar University, Qatar <i>Biotechnology in the Oil and Gas Industry: Potentials for the Treatment of Processed Water</i> Dr Boris Kolvenbach , Research	Keynote: Prof Gert Storm , Utrecht University, The Netherlands <i>Targeted nanomedicine to address challenges in the delivery of biotech drug products</i>	Prof Stefan Oscarson , 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> Prof Yao Nie , 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> Mattana Tunchai , Hiroshima University, Japan <i>Identification and characterization of chemotactic transducers for a non-natural enantiomer of malate in Ralstonia solanacearum</i> Dr Haiqin Chen , Professor, Jiangnan University, China <i>Application of a delta-6 desaturase with α-linolenic acid preference on eicosapentaenoic acid production in Mortierella alpine</i> Dr Maulin Shah , 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: Dr Sasi Nayar , Phytoplankton Biologist and Subprogram Leader, South Australian Research and Development Institute Speaker 2: Andrew Lawson , Managing Director, MBD Energy Ltd Speaker 3: Mary Ibarra-Vidal , Master Student, University Of Calgary <i>Auxenochlorella Protothecoides as a source of lipids and antioxidants</i> Q&A		Speaker 1: Prof Teruyuki Nagamune , 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: Dr Raghavendra Kikkeri , Assistant Professor, Indian Institute of Science Education and Research, India Speaker 3: Prof Laura Cipolla , Dept. Biotechnology and Biosciences, University of Milano-Bicocca, Italy <i>Nanostructured biomaterials for tissue regeneration: connecting carbohydrate and material chemistry</i> Q&A	Dr Fatemeh Dabbagh , 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> Dr Thu-Ha Nguyen , Senior post-doc, University of Natural Resources and Life Sciences, Vienna, Austria <i>Protein display on the Lactobacillus plantarum cell surface</i> Dr Xudong Wang , Post Doctoral , Dalian University of Technology, China <i>PEGylation Kinetics of Recombinant Hirudin and its Application for Process Optimization</i> Gurvinder Kalra , 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			
	Breakout 13: Commercialisation of biotech from universities	Breakout 14: Bioprocessing in biomanufacturing	Breakout 15: Drug Development	Breakout 15a: Nano-biotechnology
	Chair:	Co-Chairs: Prof Murray Moo-Young , Distinguished Professor Emeritus, University of Waterloo, Canada Prof Tomas Macek , Professor of Biochemistry, University of Chemistry and Technology, Prague, Czech Republic	Chair: Prof Ross Barnard , Director of Biotechnology Programs, The University of Queensland	Chair: Prof Francesco Nicotra , Vice-President of IUPAC Division III, University of Milano-Bicocca, Italy
1.30 – 2.00pm	Keynote: Dr Noel Chambers , CEO, National Foundation for Medical Research and Innovation <i>Getting rubber to hit the road: funding research for impact</i>	Keynote: Prof Fengwu Bai , Distinguished Professor, Biochemical Engineering, Shanghai Jiao Tong University, China <i>Bioreactor and bioprocess engineering strategies for the production of bulk commodities</i>	Keynote 1: Prof Stefano Ciurli , 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>	Dr Hang Ta , 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: Dr Jim Henderson , Chief Operating Officer, UNSW Innovations Speaker 2: Dean Moss , Chief Executive Officer, UniQuest Speaker 3: Anna Grocholsky , Director of Commercialisation and innovation, Macquarie University <i>Bench to bedside</i> Q&A	Speaker 1: Thanasak Lomthong , 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: Ahmad Kajis , Universiti Putra, Malaysia <i>Comparative Study of Lipase-catalysed Kojic Acid Esters Synthesis in Stirred-tank, Fluidized and Packed Bed Bioreactors</i> Speaker 3: Dr Yanyan Li , Jiangnan University, China	Speaker 1: Trent Munro , Scientific Director, Amgen, USA Speaker 2: Prof Darren Kelly , CEO and Managing Director, Occrux Speaker 3: Dr Evan Siegel , CEO, Ground Zero Pharmaceuticals, USA <i>Critical Regulatory Programs for Rapidly Advancing New Biotechnology Products into Clinical Trials and Marketing Applications</i> Q&A	Dr Sreejith Raveendran , 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> Dr Peng-Yuan Wang , DECRA, Fellow, Swinburne University <i>Modulation of human stem cell behaviour using binary colloidal crystal substrates</i> Bhuvana Kamath Shanbhag , 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			
	Breakout 16: Pharmaceutical, Medical and Molecular.	Breakout 16a	Breakout 18: Convergence Biotechnology	Breakout 18a:
	Chair: Prof Gary Schenk , Professor of Biophysical Chemistry, The University of Queensland	Chair:	Chair: Dr Tai Hyun Park , Professor, School of Chemical and Biological Engineering, Seoul National University, South Korea	Chair:
3.30 – 4.00pm	Keynote: A/Prof Max Cryle , Group Leader, EMBL Australia	Nur Eliyana Mohd Redhuan , Lecturer, Universiti Malaysia Kelantan, Malaysia <i>Comparison of Loop-Mediated Isothermal Amplification (LAMP) and PCR in detection of Equine Herpes Virus</i>	Keynote: Prof Eiichi Tamiya , Professor, Osaka University, Japan <i>Single cells and organs on chips for biomedical diagnosis and drug screening</i>	Prof Yan Sun , 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: Dr Kade Roberts , Senior Research Scientist, Monash University <i>Development of New Polymyxin Antibiotics with Improved Safety and Efficacy</i> Speaker 2: Jin Hu , Tsinghua University, China <i>Elastin-like polypeptide fused interferon with superior pharmacokinetics, biodistribution and antitumor efficacy</i> Speaker 3: Ji Hoon Park , Pusan National University, Korea <i>Nitric oxide-releasing poly(lactico-glycolic acid) nanofiber matrices for application to wound</i>	Qianqian Xu , 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> Fangyan Chen , Associate Professor, South China Agricultural University, China <i>Studies on Chloride Ion Channel Protein Genes and Coenzyme in Diapause Termination of Silkworm, Bombyx mori</i>	Speaker 1: Prof Man Bock Gu , 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: Prof Sung Ok Han , Department of Biotechnology, Korea University, Korea <i>Designer Nano-scale Protein Complexes for C1/3/5/6 Biorefinery</i> Speaker 3: A/Prof Alice Lee , Senior lecturer, UNSW <i>Plasmonic Nanoparticle-Immunodiagnostic Systems for Food Quality and Safety Monitoring</i> Speaker 4: Dr Tai Hyun Park , Professor, School of Chemical and Biological Engineering, Seoul	Prof Chunzhao Liu , Institute of Process Engineering, Chinese Academy of Sciences, China <i>Functional Magnetic Nanoparticles for Protein Capture</i> Prof Xiao-Wei Yu , 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> Dr Chen-Guang Liu , A/Prof, Shanghai Jiao Tong University, China <i>Redox potential control for enhancement of Saccharomyces cerevisiae tolerance to inhibitors</i>

	<p><i>healing</i> Q&A</p>		<p>National University, South Korea <i>Olfactory and Taste Sensors: Integration of Biotechnology and Nanotechnology</i> Q&A</p>	<p><i>from lignocellulosic biomass</i> Hana Stiborova, Research Assistant, UCT Prague, Czech Republic <i>Biotransformation of waste products from poultry industry</i> Dr Nur Asshifa Md Noh, 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></p>
<p>7.00 – 11.00pm</p>	<p>IBS 2016 and AusBiotech 2016 official conference dinner <i>Supported by Patheon</i></p> 			

Wednesday 26 October 2016				
8.30am	Conference registration & exhibition open			
9.00 – 9.45am	A New Model for Drug Development in Academic Institutions Prof Dennis Liotta , Executive Director Emory Institute for Drug Development, Emory College, Atlanta USA			
9.45 – 10.30am	Interrogating and Guiding the Microbiome for Macro-organism Health and Productivity Dr James Tiedje , Director, Centre for Microbial Ecology, Michigan State University, USA			
10.30 – 11.00am	Morning Tea Break and networking with exhibitors			
	Breakout 19: Biocatalysis	Breakout 20: Biofuels and Bioenergy	Breakout 21: Industrial Bioactive Discovery and Development	Breakout 21a: Interfacial Chemistry for Biomaterials and Biotechnology
	Chair: Dr Colin Scott , Group Leader Environmental & Industrial Biotechnology, CSIRO	Chair: Prof Akihiko Kondo , Professor, Kobe University, Japan	Chair: Dr Jess Smith , Associate, FB Rice	Chair: A/Prof David Beattie , Chair: RACI Division of Interfaces, Colloids, and Nanomaterials
11.00 – 11.30am	Keynote: Prof Nicholas Turner , Professor, The University of Manchester, UK <i>Biocatalytic Cascade Reactions Enabled by Synthetic Biology</i>	Keynote: Prof Emile van Zyl , Senior Chair of Energy Research in Biofuels, Stellenbosch University, South Africa	Keynote: Dr James Crawford , Chemistry Team Leader, Small Molecule Drug Discovery, Genentech, USA <i>Discovery of non-covalent BTK inhibitors for the treatment of rheumatoid arthritis and lupus</i>	Prof Vincent Ball , Professor, University of Strasbourg, France
11.30 – 11.45am 11.45am – 12.00pm 12.00 – 12.15pm 12.15 – 12.30pm	Speaker 1: Dr Colin Jackson , Leader - Chemical and Structural Biotechnology, Australian National University Speaker 2: Dr Claudia Vickers , Associate Group Leader and Accelerate Fellow, Australian Institute for Bioengineering and Nanotechnology <i>Engineering microbial production of isoprenoid-based biofuels and biochemicals</i> Speaker 3: Dr Carol Hartley ,	Speaker 1: Prof Gunnar Liden , Professor, Lund University, Sweden <i>High-solids processing of lignocellulosic biomass to sugars and ethanol</i> Speaker 2: Juan Xia , Shanghai Jiao Tong University, China <i>The regulation of flocculation by c-di-GMP phosphoesterase genes in Zymomonas mobilis</i>	Speaker 1: Prof Maree Smith , Executive Director, The University of Queensland <i>Discovery-Translation and the Valley of Death: A Personal Perspective</i> Speaker 2: Speaker 3: Dr Paul Stupp , Director of Medicinal Chemistry, Cancer Therapeutics CRC <i>The Discovery of Potent and Selective Inhibitors of the Arginine Methyl Transferase PRMT5</i>	Prof Nico Voelcker , Professor, University of South Australia Prof Sally McArthur , Director, Swinburne Innovation Precinct, Swinburne University Of Technology <i>Controlling Biology at Surfaces: Exploring the effects of micro/nanostructure and chemistry on bacterial adhesion</i> Donna Menzies , OCE Postdoctoral Fellow, CSIRO

	Research Scientist & Biocatalysis Team Leader, CSIRO			
12.30 – 1.30pm	Lunch Break and networking with exhibitors			
	Breakout 22: BioFuel/BioEnergy production	Breakout 23: Drug discovery in academic institutions	Breakout 24: Clean environmental sustainability and pollution abatement	Breakout 24a:
	Chair: Prof Peer Schenk , Professor, School of Agriculture and Food Sciences, University of Queensland	Chair: Mark Ashton , Executive Director, Intellectual Property Commercialisation, UniQuest	Co-Chairs: Prof Murray Moo-Young , Distinguished Professor Emeritus, University of Waterloo, Canada Prof Tomas Macek , Professor of Biochemistry, University of Chemistry and Technology, Prague, Czech Republic	
1.30 – 2.00pm	Keynote: Prof Volker Sieber , Chair, Chemistry of Biogenic Resources, Technical University of Munich, Germany	Keynote: Mark Ashton , Executive Director, Intellectual Property Commercialisation, UniQuest	Keynote: Prof Murray Moo-Young , Distinguished Professor Emeritus, University of Waterloo, Canada <i>Waste as a misplaced resource: biofuels from biomass residues</i>	Prof Hai Yan , Professor, University Of Science And Technology Beijing, China <i>Biodegradation of Nodularin by Sphingopyxis sp. USTB-05</i> Dr Arpana Jobanputra , Assistant Professor, PSGVPM's, ASC College, Shahada, India <i>Biotransformation of Antibiotics: A Promising Pharmaceutical Approach to Combat MDR</i>
2.00 – 2.15pm 2.15 – 2.30pm 2.30 – 2.45pm 2.45 – 3.00pm	Speaker 1: Dr Paul Bennett , Science Leader, Clean Technologies, Scion, New Zealand Speaker 2: Dr William Rowlands , Chief Scientist, Licella, New Zealand Speaker 3: Dr Allan Green , 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: Prof Eugenia Olquin , Professor, National Institute of Ecology and Climate Change, Mexico <i>Phytoremediation and phycoremediation as core tools in a sustainable biorefinery</i> Speaker 2: Prof Ondrej Uhlík , A/Prof, Group Leader, University of Chemistry and Technology, Prague, Czech Republic Speaker 3: Dr Libing Chu , Associate Professor, Tsinghua University, China <i>Biological denitrification using</i>	Peng Huadong , Phd Student, Department Of Chemical Engineering, Monash University <i>Comparison of the performance of heterologously expressed plant and microalgae lipid accumulation genes on lipid content of yeast</i> Dr Ahmad Ramli Mohd Yahya ,

			<i>biodegradable polymer PBS as carbon source to remove nitrate from groundwater and bacterial community analysis of biofilm</i> Q&A	Associate Professor, Universiti Sains, Malaysia <i>Natural antibiotics and biosurfactants from mangrove actinomycetes</i> Dr Guo-Chao Xu , Associate Professor, Jiangnan University, China <i>Crystal structure of tyrosine decarboxylase and identification of key residues involved in conformational swing and substrate binding</i>
3.00 – 3.30pm	Afternoon Tea Break and networking with exhibitors			
	Breakout 25: Marine Biotechnology and Aqua Culture	Breakout 26: Chemistry to Biology a new manufacturing possibility	Breakout 27: BioFuels and BioEnergy.	Breakout 27a:
	Chair: Prof Wei Zhang , Director, Centre for Marine Bioproducts Development, Flinders University	Chair: A/Prof Ian O’Hara , Principal Research Scientist, Queensland University of Technology	Chair: Prof Fengwu Bai , Distinguished Professor, Biochemical Engineering, Shanghai Jiao Tong University, China	
3.30 – 4.00pm	Keynote 1: Prof Tadashi Matsunaga , President Tokyo University of Agriculture and Technology, Japan <i>New technologies for bioenergy production using algae and other aquatic microorganisms</i> Keynote 2: Prof Wei Zhang , Director, Centre for Marine Bioproducts Development, Flinders University <i>Australia National Marine Science Plan: Putting Marine Biotechnology and Bioproducts</i>	Keynote: Prof Shi-Zhong Li , Executive director, US-Sino Joint Center for Biofuel Research, Tsinghua University, China	Keynote: Dr Guo-Hua Miao , Director, DuPont, China <i>Biofuels Development: from Discovery to Commercialization</i>	Prof Nicolas Moitessier , Professor, McGill University, Canada <i>Computational methods for Drug Design and Development - Development and Applications to Drug Discovery</i> Dr Haiyang Zhang , Postdoc Fellow, University of Science and Technology Beijing, China <i>Evaluation of Generalized Born Models for Affinity Prediction of Cyclodextrin Host-Guest Complexes</i>

	<i>into the Economic Agenda</i>			Dr Satoshi Yamaguchi , Lecturer, The University Of Tokyo, Japan <i>Photolytic protein aggregates for controlled release of active protein</i> Dr Bong-Hyuk Choi , Research Assistant Professor, Postech, South Korea <i>Mussel adhesive protein-based bone-specific multifunctional artificial extracellular matrix for bone tissue engineering</i> Emmanuel Chekwube Ossai , Phd Student, University Of Tsukuba, Japan <i>Lipid vesicles with controlled size formed using multiple emulsions: Consideration on the mechanism of surfactant effect on the entrapment yield of hydrophilic materials</i> Prof Dae-Hyuk Kweon, Professor, Sungkyunkwan University, South Korea
4.00 – 4.15pm 4.15 – 4.30pm 4.30 – 4.45pm 4.45 – 5.00pm	Speaker 1: Dr Scott Smid , 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: Dr Tom Williams , Research Fellow In Synthetic Biology, Macquarie University Speaker 2: A/Prof Robert Speight , 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 Acids from Grass</i> Speaker 3 : Dr Irnia Nurika, Senior Lecturer/Assoc.Prof, University of Brawijaya, Indonesia <i>Evidence for the mechanisms involved in the degradation of lignocellulose in wheat straw by Serpula lacryman</i> Q&A	
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	<i>Self-Assembled Supramolecular Nanosystems for Targeting Therapy of Intractable Diseases</i> Prof Kazunori Kataoka , Professor, Department of Materials Engineering and Bioengineering Graduate Schools of Engineering, University of Tokyo, Japan
9.45 – 10.30am	<i>Synthetic Designer Vaccines Protect from Bacterial Infections</i> Prof Dr Peter Seeberger , Director, Max-Planck Institute of Colloids and Interfaces, Germany
10.30 – 11.00am	Morning Tea Break and networking
11.00 – 11.45am	<i>Biotech and the future of man</i> Prof Huanming Yang , President, BGI-Shenzhen, China
1.45am – 12.30pm	<i>Development of Peptide and Peptidomimetic Therapeutic Agents from a New Zealand Perspective</i> Prof Margaret Brimble , 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