

IBS 2016, Draft Program

DRAFT: 20/10/2016

Monday 24 October 2016

ivionday 24 October	2010				
8.00am	Conference registration & exhibition opens				
	Room 203/204				
9.00 – 9.45am	Welcome to Country & IBS 2016 and AusBiotech 20	016			
	Glenn Cross, CEO, AusBiotech				
	Premier of Victoria, The Hon. Daniel Andrews MP				
	Prof Francesco Nicotra , Vice-President of IUPAC Di	vision III, University of Milano-Bicocca, Italy			
9.45 – 10.30am	Paul Perreault, CEO and Managing Director, CSL Ltd CSL is Australia's most successful biotech and this year it will spend more than \$USD600 million on R&D. CEO Paul Perreault will discuss his decision to locate CSL's global R&D hub in Melbourne, his vision for a renaissance in Australian biotechnology and his view of the elements needed for business success.				
10.30 – 11.00am	Morning tea break and networking with exhibitors				
	Room 212	Room 216	Room 217		
11.00am – 12.30pm	Breakout 1: The structure, function and digestion of food Breakout 2: Biobased production Breakout 3: Glycomics				
12.30μπ		Breakout 2: Biobased production			
12.50pm		Breakout 2: Biobased production Chair: Prof Mary Garson, Professor of			
12.50pm	digestion of food	·	Breakout 3: Glycomics		
12.50pm	digestion of food Chair: Dr Mick Blake, Director Biosecurity Centre	Chair: Prof Mary Garson , Professor of	Chair: Prof Mark von Itzstein, Director, Institute for Glycomics, Griffith University Prof Dr Rita Gerardy-Schahn, Director and		
12.50pm	digestion of food Chair: Dr Mick Blake, Director Biosecurity Centre of Excellence, Box Hill Institute	Chair: Prof Mary Garson , Professor of Chemistry, The University of Queensland	Breakout 3: Glycomics Chair: Prof Mark von Itzstein, Director, Institute for Glycomics, Griffith University		

	foods		Ways and means to engineer glyco-enzymes
	Prof Ben Boyd, Professor in Drug Delivery Sciences, Monash University New insights into the structure of milk during digestion Simone Rochfort, Research Leader Molecular Phenomics, AgriBio Economic Development Dr Trevor Lockett, Group Leader, Personalised Health, CSIRO Starch structure and its impact in digestion and nutrition	Otago, New Zealand Engineering superior DNA ligase enzymes for biomolecular applications A/Prof Johan Verbeek, Associate Professor, University of Waikato, New Zealand New products for special needs, a new life for protein by-products	for biotechnological applications Prof Richard Payne, Professor of Organic Chemistry and Chemical Biology and ARC Future Fellow, School of Chemistry, The University of Sydney Glycopeptides and glycoproteins: Finding the sweet spot for biology and medicine Prof Richard Furneaux, Director, The Ferrier Research Institute, Victoria University of Wellington, New Zealand Is there a chemical code for the diverse biological activities of heparan sulfate?
12.30 – 1.30pm	Lunch break and networking with exhibitors		
1.30 – 3.00pm	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, Deputy CEO, AusBiotech	Chair: Prof Teruyuki Nagamune, Professor, The University of Tokyo, Japan
Keynote: Prof University, Jap Development of	Keynote: Prof Akihiko Kondo , Professor, Kobe University, Japan Development of microbial cell factories for consolidated bioprocessing by synthetic biology platform	Dr Lisa Haile, Partner & Co-Chair Global Life Sciences Sector, DLA Piper LLP, USA Patent Eligibility including Natural Products and Diagnostics under section 101 in the US Tania Obranovich, Vice President Ip, Legal Affairs and Compliance, Clinical Genomics John Tessensohn, Board Member Shusaku. Yamamoto, Japan	Keynote 1: Prof Justin Gooding , Scientia Professor and Founding Co-director, The Australian Centre for NanoMedicine, UNSW 3D printing of cells Keynote 2: Prof Max Lu , Vice-Chancellor, University of Surrey UK Layered Inorganic Nanoparticles for Controlled Delivery of Drug and RNAs
	Prof Danilo Porro, Professor, University of Milano-Biocca, Italy Molecular and process design for chemical productions in yeasts cell factories Prof Kristala Jones Prather, Associated Professor, Massachusetts Institute of Technology, USA In search of a better enzyme: biocatalyst	Requirements, timing and strategies in patent term extension (PTE) practice in Japan Dr Charles Harding, Partner, D Young & Co, UK Post grant developments in Europe	Prof Gordon Wallace, Chief Investigator, University of Wollongong 3d Bioprinting. Can we emulate the hierarchical structures found in nature? Prof Soong Ho Um, Associate Professor, Sungkyunkwan University, South Korea A DNA Origami-based fluorescent system for

	screening to facilitate pathway engineering		rapid and selective diagnosis of cytosolic RNA cancer markers
3.00 – 3.30pm	Afternoon tea break and networking with exhibitor	S	
3.30 – 5.00pm	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: Prof Gary Schenk , ARC Future Fellow and Reader, The University of Queensland	Chair: Prof Mark Kendall, Group Leader, Delivery of Drugs and Genes Group AIBN, The University of Queensland
	Keynote: Prof German Spangenberg, Executive Director, AgriBio Centre Advances and prospects in forage systems biology and molecular breeding	Keynote: Prof Linda Blackall, Professor of Biosciences and Academic Director of Research Training, Swinburne University of Technology Treatment of urban solid waste by composting with a focus on pathogen removal from the final product Keynote 2: Prof Gary Schenk , ARC Future Fellow and Reader, The University of Queensland Environmental Biocatalysis: a promising strategy to translate basic science into a variety of applications	Keynote: Prof Alan Cowman , Head, Division of Infection and Immunity, The Walter and Eliza Hall institute of Medical Research Current state of vaccine development for malaria
	Prof Ian Godwin, Professor in Plant Molecular Genetics, The University of Queensland Transgenic cereals with enhanced end-use qualities Prof Jimmy Botella, Professor of Plant Biotechnology University of Queensland No equipment? No electricity? No problem! A simple, low-cost molecular/nanotechnology- based diagnostic system for crop, animal and human diseases. Prof Tomas Macek, Professor of Biochemistry, University of Chemistry and Technology, Prague, Czech Republic Transgenic plants tailored to overcome stressing	A/Prof Mike Manefield, Associate Professor, School of Biotechnology and Biomolecular Sciences, UNSW Bioremediation of organochlorines in Australia Hana Stiborova, Research Assistant, UCT Prague, Czech Republic Biotransformation of waste products from poultry industry	A/Prof Michael Nissen, Director of Scientific Affairs & Public Health, GSK Vaccines, Singapore Current status of Ebola virus vaccine development Prof Paul Young, Professor of Virology and Head of School, The University of Queensland Clamping sub-unit viral vaccines: constraining the conformation of recombinant viral fusion proteins in their pre-fusion form enhances vaccine potency Prof Mark Kendall, Group Leader, Delivery of Drugs and Genes Group AIBN, The University of Queensland

	conditions or improve phytoremediation	Engineering the improved reach of vaccines: from needles to rockets to Nanopatches
5.00 – 6.30pm	Welcome reception IBS 2016 and AusBiotech 2016 Supported by CSL Exhibition hall, Melbourne Room, Melbourne Conve	100 CSE Just getting started

Tuesday 25 Octo	esday 25 October 2016				
7.00am	Conference registration opens				
6.55 -7.45am	South Wharf river promenade precinct walking tour				
	Meet at Hilton hotel reception				
	Free to attend - Please RSVP : <u>events@ausbiotech.org</u>				
	Join us for a walking tour that highlights Melbournes discovery and exploration, waterfront history, initial settlement and Aboriginal history. The tour				
	will include Melbourne maps, bushtucker samples, historic souvenir and a chocolate sample.				
7.30 – 8.30am	How To make life changing products available to more people sooner.				
	Presenter: Chad Fox - President of MasterControl Asia				
	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.				
	Invitation Only				
8.30am	Exhibition hall opens				
	Room 203/204				
8.45 – 9.20am	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				
9.20 – 9.55am	Millis Oration				
	Introduction: Dr Andrea Huggins, Vice President R&D Strategy, CSL				
	The rise, fall and rebirth of an Australian public health icon Just getting started				
	Prof Ian Gust AO, Professorial Fellow, University of Melbourne				

9.55 – 10.30am	Johnson & Johnson Innovation – JJE	OC: Bringing Smart Money to Your Busi	iness				
	Dr Jeanne Bolger, Vice President Venture Investments, Johnson & Johnson Innovation						
10.30 – 11.00am	Morning tea break and networking v	with exhibitors					
	Room 212	Room 214	Room 216	Room 217			
11.00am –	Breakout 10: Pharmaceutical,	Breakout 11: Algae	Breakout 12:	Breakout 13:			
12.30pm	medical and molecular biology		Nano-biotechnology: from drug	Industrial and environmental			
	Chair A/Darf Mar France David	Chair Bracky III a Chair	delivery to tissue regeneration	biotechnology			
	Chair: A/Prof Vito Ferro, Deputy	Chair: Prof Volker Sieber , Chair,	Chair: Prof Francesco Nicotra, Vice-	Chair: Dr Carol Hartley , Research			
	Director, Biotechnology Program,	Chemistry of Biogenic Resources,	President of IUPAC Division III,	Scientist & Biocatalysis Team			
	The University of Queensland	Technical University of Munich,	University of Milano-Bicocca, Italy	Leader, CSIRO			
		Germany					
	Keynote: Prof Stefan Oscarson ,	Prof Peer Schenk, Professor, School	Keynote: Prof Gert Storm , Utrecht	Prof Muftah El-Naas , Qafco Chair			
	Professor In Chemical Biology,	of Agriculture and Food Sciences,	University, The Netherlands	Professor, Qatar University, Qatar			
	University College Dublin, Ireland	University of Queensland	Targeted nanomedicine to address	Biotechnology in the oil and gas			
	Development of a conjugate	Microalgal biorefineries to cost-	challenges in the delivery of biotech	industry: Potentials for the			
	vaccine against Cryptococcus	effectively produce food, feed and	drug products	treatment of processed water			
	neoformans based on synthetic	biofuel		Dr Boris Kolvenbach , Research			
	capsular polysaccharide structures			Assistant, University Of Applied			
	Dr Fatemeh Dabbagh, Assistant	Andrew Lawson, Managing Director,	Prof Teruyuki Nagamune, Professor,	Sciences And Arts Northwestern			
	Professor, Faculty Of Pharmacy	MBD Energy Ltd	The University of Tokyo, Japan	Switzerland			
	And Pharmaceutical Sciences,	High value algae based products	Dynamic micro-patterning and	Multifactorial investigation of			
	Hormozgan University Of Medical	Mary Ibarra-Vidal, Master Student,	sorting of mammalian cells on	sulfonamide antibiotics			
	Sciences, Iran	University Of Calgary	photo-cleavable PEG-lipid modified	biodegradation in five wastewater			
	Human urate oxidase pseudogene	Auxenochlorella Protothecoides as a	surface	treatment plants			
	engineering in an effort to develop	source of lipids and antioxidants	Prof Laura Cipolla, Dept.	Mattana Tunchai, Hiroshima			
	humanized forms of uricase as an	Dr Brenton Hamdorf, Industry	Biotechnology and Biosciences,	University, Japan			
	important biopharmaceutical	Engagement Manager,	University of Milano-Bicocca, Italy	Identification and characterization			
	Dr Thu-Ha Nguyen, Senior post-	University of Technology Sydney	Nanostructured biomaterials for	of chemotactic transducers for a			
	doc, University of Natural	Advanced Algae: PHARMACEUTICAL	tissue regeneration: connecting	non-natural enantiomer of malate in Ralstonia solanacearum			
	Resources and Life Sciences,	APPLICATIONS	carbohydrate and material chemistry	Dr Haiqin Chen , Professor, Jiangnan			
	Vienna, Austria		Prof Paolo Scrimin , Department of	University, China			
	Protein display on the cell surface		Chemical Sciences, University of	Application of a delta-6 desaturase			
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	of Lactobacillus plantarum towards the development of whole-cell biocatalyst Dr Xudong Wang, Post Doctoral, Dalian University of Technology, China PEGylation kinetics of recombinant hirudin and its application for process optimization		Padova, Italy Targeting and intracellular delivery of functionalized gold nanoparticles: exploiting multivalency and surface properties	with α-linolenic acid preference on eicosapentaenoic acid production in Mortierella alpina
12.30 – 1.30pm	Lunch break and networking with ex	Room 214	Room 216	Room 217
1.30 – 3.00pm	Breakout 14: Commercialisation of biotech from universities	Breakout 15: Bioprocessing in biomanufacturing	Breakout 16: Drug development	Breakout 17: Nano-biotechnology
	Chair: A/Prof Vito Ferro , Deputy Director, Biotechnology Program, The University of Queensland	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
	Keynote: Dr Noel Chambers, CEO, National Foundation for Medical Research and Innovation Getting rubber to hit the road: funding research for impact	Keynote: Prof Fengwu Bai , Distinguished Professor, Biochemical Engineering, Shanghai Jiao Tong University, China Bioreactor and bioprocess engineering strategies for the production of bulk commodities	Keynote: Prof Stefano Ciurli, Professor Department of Pharmacy and Biotechnology, University of Bologna, Italy Catalysis and inhibition mechanisms of urease, a nickel enzyme, made crystal clear: a prodrome to drug discovery and development	Dr Hang Ta, NHMRC Early Career Research Fellow, Australian Institute For Bioengineering And Nanotechnology, University Of Queensland Targeting imaging contrast and live cells in cardiovascular disease via a chemo-biotechnological approach
	Dr Kevin Cullen, Chief Executive Officer, UNSW Innovations Measuring Knowledge Exchange and Commercialisation	Thanasak Lomthong, Kasetsart University, Thailand Cloning, expression and characterization of poly(L-lactide)- degrading enzyme from Laceyella	Trent Munro, Scientific Director, Amgen, USA A glimpse into the future of mammalian cell culture process development: innovative approaches	Dr Sreejith Raveendran , Post Doctoral Research Fellow, Toyo University, Bio Nano Electronics Research Centre, Japan

3.00 – 3.30pm	Dean Moss, Chief Executive Officer, UniQuest Creating a pipeline of commercialisation deals in biotech: A University of Queensland perspective Anna Grocholsky, Director of Commercialisation and innovation, Macquarie University Bench to bedside	sacchari LP175 in escherichia coli and application of the recombinant enzyme for hydrolysis of poly(L-lactide) polymer Ahmad Lajis, Universiti Putra, Malaysia Comparative study of lipase-catalysed kojic acid esters synthesis in stirred-tank, fluidized and packed bed bioreactors	to impact time to clinic, product quality, and cost of process development and commercial manufacturing Prof Darren Kelly, CEO and Managing Director, Occurx Developing novel therapeutics to prevent fibrosis of the retina Dr Evan Siegel, CEO, Ground Zero Pharmaceuticals, USA Critical regulatory programs for rapidly advancing new biotechnology products into clinical trials and marketing applications	Dual targeted gold nanocages induce lysosome impaired diffusion and apoptosis in breast cancer cells Dr Peter Kingshott, Professor, Swinburne University Modulation of human stem cell behaviour using binary colloidal crystal substrates Bhuvana Kamath Shanbhag, Phd Student, Monash University Noncovalent self-assembly of enzymes into nanoparticles as advanced nanobiocatalysts
3.00 – 3.30pm	Afternoon tea break and networking Room 212	Room 214	Room 216	Room 217
3.30 – 5.00pm	Breakout 18: Pharmaceutical,	Breakout 19: Agricultural	Breakout 20: Convergence	Breakout 21: Industrial and
3.30 – 3.00pm	medical and molecular	biotechnology	biotechnology	environmental biotechnology
	Chair: Prof Gary Schenk, Professor	Chair: Dr Mick Blake , Director	Chair: Dr Tai Hyun Park, Professor,	Chair: Dr Luke Guddat , Associate
	of Biophysical Chemistry, The	Biosecurity Centre of Excellence, Box	School of Chemical and Biological	Professor, University of Queensland
	University of Queensland	Hill Institute	Engineering, Seoul National	Trolessor, offiversity of Queensiand
	omversity or queensiand	Tim Histitute	University, South Korea	
	Keynote: A/Prof Max Cryle , Group	Gurvinder Kalra, Phd Student,	Keynote: Prof Eiichi Tamiya ,	Dr Luke Guddat, Associate
	Leader, EMBL Australia	Swinburne University Of Technology	Professor, Osaka University, Japan	Professor, University of Queensland
	Understanding glycopeptide	Genetic diversity of Hin genes in	Single cells and organs on chips for	Evaluation and repurposing of
	antibiotic biosynthesis as a	barley and potential implications for	biomedical diagnosis and drug	herbicides into antimicrobial drug
	pathway to new antimicrobial	grain texture variations	screening	leads: An exploration of the
	agents	Prof Jianrong Lin, Professor, South		branched chain amino acid biosynthesis pathway.
	Prof Jenny Martin, Director of the	China Agricultural University, China		Prof Chunzhao Liu, Institute of
	Eskitis Institute for Drug	Advanced researches in miRNAs in		Process Engineering, Chinese
	Discovery, Griffith University -	diapausing embryos of bombyx mori		Academy of Sciences, China
	Towards antibacterials without	Qianqian Xu, PhD Student,		Functional Magnetic Nanoparticles
	resistance	University Of Science And		<i>σ</i> :

Scientist, Monash University Development of new polymyxin antibiotics with improved safety and efficacy **Dr Mian-Chee Gor,** Postdoctoral Research Fellow, RMIT University Cloning and expression of a novel cyclic bacteriocin plantacyclin B21AG in the probiotic Lactobacillus plantarum WCFS1 Dr George Kopsidas, Executive Director, Imunexus Converting existing antibodies into functional IgG-based bispecific and trispecific formats via a quick and simple conversion using the *Imunexin platform*

Dr Kade Roberts, Senior Research

Technology Beijing, China

Effects of dietary chlorella USTB-01

on growth performance and cecal
microbiota in broilers

Prof Man Bock Gu, Department of Biotechnology, Korea University, Korea Sandwich-type biosensors and in vitro diagnostic systems using a pair of aptamers and nanomaterials **Prof Sung Ok Han**, Department of Biotechnology, Korea University, Korea Designer nano-scale protein complexes for C1/3/5/6 biorefinery A/Prof N. Alice Lee, Associate Professor, UNSW Plasmonic Nanoparticle-Immunodiagnostic Systems for Food **Quality and Safety Monitoring Dr Tai Hyun Park,** Professor, School of Chemical and Biological Engineering, Seoul National University, South Korea

Olfactory and Taste Sensors: Integration of Biotechnology and

Nanotechnology

Jiangnan University, China
Role of N-linked glycosylation in the
secretion and enzymatic properties
of Rhizopus chinensis lipase
expressed in Pichia pastoris
Dr Nur Asshifa Md Noh, Senior
Lecturer, Universiti Sains Malaysia
Rhamnolipid production in
Pseudomonas aeruginosa USM-AR2
fermentation using renewable
insoluble substrates in a bioreactor
integrated with an oil separation
system

for Protein Capture

Prof Xiao-Wei Yu, Professor,

7.00 – 10.30pm International BioFest conference dinner

Supported by Patheon

Atlantic Peninsular, Shed 14, Central Pier, Docklands



Wednesday 26 Oct	Wednesday 26 October 2016		
8.30am	Conference registration & exhibition open		
	Room 212		
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	Morning Tea Break and networking with exhibitors			
	Room 212	Room 214	Room 216	Room 217	
11.00am –	Breakout 22: Biocatalysis	Breakout 23: Biofuels and bioenergy	Breakout 24: Industrial bioactive	Breakout 25: Interfacial chemistry	
12.30pm			discovery and development	for biomaterials and biotechnology	
	Chair: Dr Colin Scott, Group Leader Environmental &	Chair: Prof Akihiko Kondo, Professor, Kobe University, Japan	Chair: Dr Jess Gledhill , Associate, FB Rice	Chair: A/Prof David Beattie, Chair: RACI Division of Interfaces, Colloids, and Nanomaterials	
	Industrial Biotechnology, CSIRO Keynote: Prof Nicholas Turner , Professor, The University of Manchester, UK Biocatalytic cascade reactions enabled by synthetic biology	Keynote: Prof Emile van Zyl , Senior Chair of Energy Research in Biofuels, Stellenbosch University, South Africa Developing CBP yeast for biomass conversion	Keynote: Dr James Crawford, Chemistry Team Leader, Small Molecule Drug Discovery, Genentech, USA Discovery of non-covalent BTK inhibitors for the treatment of rheumatoid arthritis and lupus	Prof Vincent Ball, Professor, University of Strasbourg, France Polydopamine films and nanomaterials: from bioinspiration to structural investigations and functional materials	
	Dr Colin Jackson, Leader - Chemical and Structural Biotechnology, Australian National University Dr Claudia Vickers, Associate Group Leader and Accelerate Fellow, Australian Institute for Bioengineering and Nanotechnology Engineering microbial production of isoprenoid-based biofuels and biochemicals Dr Carol Hartley, Research Scientist & Biocatalysis Team Leader, CSIRO Nanomachine biocatalysts for biobased nanofactories	Prof Gunnar Liden, Professor, Lund University, Sweden High-solids processing of lignocellulosic biomass to sugars and ethanol Juan Xia, Shanghai Jiao Tong University, China The regulation of flocculation by c-di- GMP phosphoesterase genes in Zymomonas mobilis	Dr Tina Lavranos, Senior Director – Cancer, Bionomics Cancer stem cell resistance: A drug discovery and development challenge Dr Paul Stupple, Director of Medicinal Chemistry, Cancer Therapeutics CRC The discovery of potent and selective inhibitors of the arginine methyl transferase PRMT5	Prof Sally McArthur, Director, Swinburne Innovation Precinct, Swinburne University Of Technology Controlling biology at surfaces: exploring the effects of micro/nanostructure and chemistry on bacterial adhesion Donna Menzies, OCE Postdoctoral Fellow, CSIRO Prebiotic chemistry inspired coatings for biomedical and material science applications A/Prof David Beattie, Chair: RACI Division of Interfaces, Colloids, and Nanomaterials Novel Polyelectrolyte Multilayer Coatings for Applications in Wound Dressings	

12.30 – 1.30pm	Lunch Break and networking with exhibitors			
12.30 – 1.30pm	UK Department for International T	rade lunch - Discover	IDA – Ireland Business Lunch: Bioma	nufacturing
	Opportunities in UK Life Sciences	rade fulleti - Discovei	Strategies for the future	
	Invitation only, express interest: ev	ents@ausbiotech.org Department for International Trace	e Invitation only, express interest: ever	nts@ausbiotech.org Ireland
	A panel of Life Sciences experts from			d of Life Sciences at
	Australia will explore the opportuni	ties for husiness and	IDA Ireland about the latest biomanufacturing advancements and	
	research collaboration in the UK.	GREAT BRITAIN & HORTHERN IRELAND	opportunities for business, research and collaboration in Ireland.	
	Room 212	Room 214	Room 216	Room 217
1.30 – 3.00pm	Breakout 26: Biofuel & bioenergy	Breakout 27: Industrial and	Breakout 28: Clean environmental	Breakout 29: Drug discovery in
	production	environmental biotechnology	sustainability and pollution	academic institutions
			abatement	
	Chair: Prof Peer Schenk,	Chair: Prof Mary Garson , Professor	Co-Chairs: Prof Murray Moo-Young,	Chair:
	Professor, School of Agriculture	of Chemistry, The University of	Distinguished Professor Emeritus,	Mark Ashton, Executive Director,
	and Food Sciences, University of	Queensland	University of Waterloo, Canada	Intellectual Property
	Queensland		Prof Tomas Macek, Professor of	Commercialisation, UniQuest
			Biochemistry, University of	
			Chemistry and Technology, Prague,	
			Czech Republic	
	Keynote: Prof Volker Sieber ,	Peng Huadong, Phd Student,	Keynote: Prof Murray Moo-Young,	Keynote: Mark Ashton, Executive
	Chair, Chemistry of Biogenic	Department Of Chemical	Distinguished Professor Emeritus,	Director, Intellectual Property
	Resources, Technical University of	Engineering, Monash University	University of Waterloo, Canada	Commercialisation, UniQuest
	Munich, Germany	Comparison of the performance of	Clean environmental sustainability:	
	Biorefiney concepts and reactions	heterologously expressed plant and	the biomass agenda	
	for fuels and chemicals	microalgae lipid accumulation genes		
		on lipid content of yeast		
	Dr Paul Bennett, Science Leader,	Dr Ahmad Ramli Mohd Yahya,	Prof Ondrej Uhlik, A/Prof, Group	Dr Andrew Harvey, Senior Director
	Clean Technologies, Scion, New Zealand	Associate Professor, Universiti Sains,	Leader, University of Chemistry and	QEDDI, UniQuest Prof Dennis Liotta, Executive
	Drivers for Biofuels?	Malaysia	Technology, Prague, Czech Republic	Director Emory Institute for Drug
	Dr Bill Rowlands, Chief Scientist,	Natural antibiotics and	Plants and fertilization impact	Development, Emory College,
	Licella	biosurfactants from mangrove	differentially on bacterial	Atlanta USA
	Strides towards the commercial	actinomycetes	communities and their functional	Dr Brian Moloney, Head of
	deployment of hydrothermal	Dr Guo-Chao Xu, Associate	potential in contaminated soils	Business Development, WuXi
	technology for the production of	Professor, Jiangnan University, China	Dr Chen-Guang Liu, A/Prof,	Apptec, USA
	in the same production of			Prof Brian Cox, Sussex University,

	renewable fuels and chemicals from biomass Dr Allan Green, Innovation Leader for Biobased Products, CSIRO Agriculture & Food Leaf oils – game-changing technology creating scalable, low- cost, renewable fuel feedstocks	Crystal structure of tyrosine decarboxylase and identification of key residues involved in conformational swing and substrate binding Prof Hai Yan, Professor, University Of Science And Technology Beijing, China Biodegradation of nodularin by sphingopyxis sp. USTB-05	Shanghai Jiao Tong University, China Redox potential control for enhancement of Saccharomyces cerevisiae tolerance to inhibitors from lignocellulosic biomass	UK Inventing drugs in academia
3.00 – 3.30pm	Afternoon Tea Break and networking			
3.30 – 5.00pm	Breakout 30: Biofuels and bioenergy	Breakout 31: Marine biotechnology and aqua culture	Breakout 32: Chemistry to Biology – a new manufacturing possibility	Breakout 33: Pharmaceutical, medical and molecular
	Chair: Prof Fengwu Bai, Distinguished Professor, Biochemical Engineering, Shanghai Jiao Tong University, China	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: A/Prof Vito Ferro , Deputy Director, Biotechnology Program, The University of Queensland
	Keynote: Dr Guo-Hua Miao , Director, DuPont, China Biofuels Development: from discovery to commercialization	Keynote 1: Prof Tadashi Matsunaga , President Tokyo University of Agriculture and Technology, Japan New technologies for bioenergy production using algae and other aquatic microorganisms Keynote 2: Prof Wei Zhang , Director, Centre for Marine Bioproducts Development, Flinders University Australia national marine science plan: putting marine biotechnology and bioproducts into the economic agenda	Keynote: Prof Shi-Zhong Li , Executive director, US-Sino Joint Center for Biofuel Research, Tsinghua University, China	Keynote: Prof Nicolas Moitessier, Professor, Mcgill University, Canada Computational methods for drug design and development — development and applications to enzyme inhibitors discovery as Alzheimer's disease and cancer therapeutics
	Prof Yang Mu, Professor, University of Science and Technology of China, China Biohydrogen production from	Dr Scott Smid, Deputy Head, Discipline of Pharmacology The University of Adelaide Drug discovery and development targeting neuroprotection from	Dr Tom Williams , Research Fellow In Synthetic Biology, Macquarie University Fine-tuning an organic acid	Dr Satoshi Yamaguchi, Lecturer, The University Of Tokyo, Japan Photolytic protein aggregates for controlled release of active protein

wastewater in microbial
electrolysis cells
Way Khor, PhD Student, Ghent
University, Belgium
Production of medium chain fatty
acids from grass
Dr Irnia Nurika, Senior
Lecturer/Assoc.Prof, University of
Brawijaya, Indonesia
Evidence for the mechanisms
involved in the degradation of
lignocellulose in wheat straw by
Serpula lacryman.

marine and aquatic organisms

Rob Kinley, Technology Lead, CSIRO

Agriculture

Adaptation yields biotechnology:
invasive seaweeds offer
environmental optimism

biosensor for directed evolution of synthetic yeast cell factories

A/Prof Robert Speight, Associate

Professor, Microbial Biotechnology,
Queensland University of
Technology

Developing bioprocesses using chemistry and biology at the interface of industry and academia

Assistant Professor, Postech, South Korea Mussel adhesive protein-based bone-specific multifunctional artificial extracellular matrix for bone tissue engineering **Dr Haiyang Zhang**, Postdoc Fellow, University of Science and Technology Beijing, China Evaluation of generalized born models for affinity prediction of cyclodextrin host-quest complexes Prof Dae-Hyuk Kweon, Professor, Sungkyunkwan University, South Korea Development of small molecule chemicals with Botulinum neurotoxin-like activities

Dr Bong-Hyuk Choi, Research

5.00 - 6.00pm

International BioFest Networking Reception, networking for all three BioFest events.

Canapes, drinks, live entertainment and networking

Supported by the Department of Industry, Innovation and Science

Showtime Events Centre, South Wharf Precinct



Australian Government

Department of Industry, Innovation and Science

Thursday 27 October 2016	
8.30am	Conference registration opens
	Room 212
9.00 – 9.45am	Self-assembled supramolecular nanosystems for targeting therapy of intractable diseases
	Prof Kazunori Kataoka, Professor, Department of Materials Engineering and Bioengineering Graduate Schools of Engineering, University of Tokyo,
	Japan
9.45 – 10.30am	Synthetic designer vaccines protect from bacterial infections
	Prof Dr Peter Seeberger, Director, Max-Planck Institute of Colloids and Interfaces, Germany
10.30 – 11.00am	Morning Tea Break and networking
	Room 212
11.00 – 11.45am	Biotech and the future of man
	Prof Huanming Yang, President, BGI-Shenzhen, China
11.45am – 12.30pm	Development of peptide and peptidomimetic therapeutic agents from a New Zealand perspective
	Prof Margaret Brimble, Distinguished Professor, The University of Auckland, New Zealand
12.30 – 1.00pm	IBS 2016 Closing Reception
	Glenn Cross, CEO, AusBiotech
	Prof Margaret Brimble, Distinguished Professor, The University of Auckland, New Zealand
	Nicolas Moitessier, McGill University, Canada
1.00 – 2.00pm	IBS 2016 Closing lunch and drinks