

## IBS 2016, Draft Program

DRAFT: 27/05/2016

Monday 24 Octobe	r 2016		
8.00am	Conference registration opens		
9.00 – 9.45am	Welcome to IBS 2016 and AusBiotech 2016		
	Minister		
	Dr Anna Lavelle, CEO, AusBiotech		
	IUPAC Opening; <b>Prof Francesco Nicotra</b> , Chair of the	ne IUPAC Subcommittee of Biotechnology, Universit	ry 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: Functional Foods	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:	Keynote1 : Jamie Rodriguez, Director, Centre of	Keynote 1: 25 mins
		Biotechnology, University of Concepción, Chile	Prof Dr Rita Gerardy-Schahn, Director and
		(20 mins)	Professor, Institute for Cellular Chemistry,
		Lipid and pigments produced by wood	Hannover Medical School, Germany
		biodegrading microorganism isolated from	Koynoto 2: 20 mins
		native forest	Keynote 2: 20 mins <b>Prof Richard Payne,</b> Professor of Organic
		Keynote 2: <b>Prof David James</b> , Professor of Bio	Chemistry and Chemical Biology and ARC
		Process Engineering, Sheffield University UK	Chemistry and chemical biology and Arc

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

3.00 – 3.30pm	Afternoon Tea Break and networking with exhibito	Afternoon Tea Break and networking with exhibitors		
	Breakout 7: Plant Molecular Biology	Breakout 8: Bioremediation & Waste Remediation	Breakout 9: Vaccine Development	
	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  Advances and prospects in forage systems biology and molecular breeding  Keynote 2:	Keynote: <b>Prof Linda Blackall,</b> 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: <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	Speaker 1: <b>Prof Ian Godwin</b> , Professor in Plant	Speaker 1: A/Prof Mike Manefield, Associate	Speaker 1: A/Prof Michael Nissen, Director	
4.15 – 4.30pm	Molecular Genetics, The University of	Professor, School of Biotechnology and	of Scientific Affairs & Public Health, GSK	
4.30 – 4.45pm	Queensland	Biomolecular Sciences, UNSW	Vaccines, Singapore	
4.45 – 5.00pm	Transgenic cereals with enhanced end-use qualities  Speaker 2: 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.  Speaker 3:  Q&A	Bioremediation of organochlorines in Australia Speaker 2: <b>Prof Gary Schenk</b> , ARC Future Fellow and Reader, The University of Queensland Speaker 3 Q&A	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 Supported by CSL		100 CSI Just getting started	

Tuesday 25 October 2	Tuesday 25 October 2016			
7.00am	Conference registration opens			
7.30 – 8.45am	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.			
	Spaces are limited; please express interest during the registration process. Spaces will be confirmed in early September.			
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		444	
	Prof Ian Gust AO, Professorial Fellow, University of Melbourne			
9.55 – 10.30am	Plenary 2A: TBC			
10.30 – 11.00am	Morning Tea Break and networking with exhibitors			
	Breakout 10: Algae	Breakout 11: Commercialisation of biotech from universities	Breakout 12: Nano-biotechnology: from Drug Delivery to Tissue Regeneration	
	Chair: <b>Prof Volker Sieber</b> , Chair, Chemistry of Biogenic Resources, Technical University of Munich, Germany	Chair:	Chair: <b>Prof Francesco Nicotra,</b> Chair of the IUPAC Subcommittee of Biotechnology, University of Milano-Bicocca, Italy	
11.00 – 11.30am	Keynote	Keynote: <b>Dr Noel Chambers,</b> CEO, National	Keynote: <b>Prof Gert Storm</b> , Utrecht University,	
	<b>Prof Peer Schenk,</b> Professor, School of	Foundation for Medical Research and	The Netherlands	
	Agriculture and Food Sciences, University of	Innovation	Targeted nanomedicine to address challenges	
	Queensland Microalgal biorefineries to cost-	Getting rubber to hit the road: funding research	in the delivery of biotech drug products	
	effectively produce food, feed and biofuel	for impact		
11.30 – 11.45am	Speaker 1: <b>Dr Sasi Nayar</b> , Phytoplankton Biologist	Speaker 1: <b>Dr Jim Henderson,</b> Chief Operating	Speaker 1: Prof Teruykui Nagamune,	
11.45am – 12.00pm	and Subprogram Leader, South Australian	Officer, UNSW Innovations	Professor, The University of Tokyo, Japan	
12.00 – 12.15pm	Research and Development Institute	Speaker 2: <b>Dean Moss,</b> Chief Executive Officer,	Dynamic micro-patterning and sorting of	
12.15 – 12.30pm	Speaker 2: <b>Andrew Lawson</b> , Managing Director,	UniQuest	mammalian cells on photo-cleavable PEG-	

	MBD Energy Ltd  Speaker 3: <b>Prof Yusuf Chisti</b> , Professor, School of Engineering & Advanced Technology, University of New Zealand - INVITED  Q&A	Speaker 3: <b>Anna Grocholsky,</b> Director of Commercialisation and innovation, Macquarie University  Bench to bedside  Q&A	Iipid modified surface  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 Nanostructured biomaterials for tissue regeneration: connecting carbohydrate and material chemistry Q&A
12.30 – 1.30pm	Lunch Break and networking with exhibitors		
	Breakout 13: Global BioPolicy	Breakout 14: Bioprocessing in	Breakout 15: Drug Development
		biomanufacturing	
	Chair: <b>Dr Anna Lavelle,</b> CEO, AusBiotech	Co-Chairs: Prof Murray Moo-Young,	Chair: <b>Prof Ross Barnard</b> , Director of
		Distinguished Professor Emeritus, University of	Biotechnology Programs, The University of
		Waterloo, Canada	Queensland
		<b>Prof Tomas Macek,</b> Professor of Biochemistry,	
		University of Chemistry and Technology,	
		Prague, Czech Republic	
1.30 – 2.00pm	Keynote:	Keynote:	Keynote 1: <b>Prof Stefano Ciurli,</b> Professor
		<b>Prof Fengwu Bai,</b> Distinguished Professor,	Department of Pharmacy and Biotechnology,
		Biochemical Engineering, Shanghai Jiao Tong	University of Bologna, Italy (20 Mins)
		University, China	'Catalysis and inhibition mechanisms of
		Bioreactor and bioprocess engineering	urease, a nickel enzyme, made crystal clear: a prodrome to drug discovery and
		strategies for the production of bulk	development'
		commodities	
2.00 – 2.15pm	Panel	Speaker 1: <b>Thanasak Lomthong,</b> Kasetsart	Speaker 1: <b>Dr Chetan Goudar,</b> Director, ATO
2.15 – 2.30pm	Speaker 1: Andrew Casey, President & CEO,	University, Thailand Cloning, Expression and Characterization of	Cell Science and Technology, Amgen, USA
2.30 – 2.45pm	BIOTECanada	Poly(L-lactide)-Degrading Enzyme from	Speaker 2: <b>Prof Darren Kelly</b> , CEO and
2.45 – 3.00pm	Speaker 2: <b>Dr Viola Bronsema</b> , CEO & Secretary General, BIO Deutschland, Germany	Laceyella sacchari LP175 in Escherichia coli and	Managing Director, Occrux
	Speaker 3	Application of the Recombinant Enzyme for	Speaker 3: <b>Dr Evan Siegel,</b> CEO, Ground Zero
		Hydrolysis of Poly(L-lactide) Polymer	Pharmaceuticals, USA

	Q&A	Speaker 2: Ahmad Kajis, Universiti Putra, Malaysia Comparative Study of Lipase-catalysed Kojic Acid Esters Synthesis in Stirred-tank, Fluidized and Packed Bed Bioreactors Speaker 3: Dr Yanyan Lid, Jiangnan University, China Increasing L-isoleucine production in Corynebacterum glutamicum Q&A	Q&A
3.00 – 3.30pm	Afternoon Tea Break and networking with exhibito		
	Breakout 16: Pharmaceutical, Medical and	Breakout 17: Early stage life science	Breakout 18: Convergence Biotechnology
	Molecular Chair: Prof Gary Schenk, Professor of Biophysical	investment Chair: Lawrence Gozlan, Chief Executive	Chair: <b>Dr Tai Hyun Park,</b> Professor, School of
	Chemistry, The University of Queensland	Officer, Scientia Capital	Chemical and Biological Engineering, Seoul
	onemially, the conversity of Queensiana	omeen, selentia capital	National University, South Korea
3.30 – 4.00pm	Keynote: <b>A/Prof Max Cryle</b> , Group Leader, EMBL	Panel session:	Keynote: <b>Prof Eiichi Tamiya,</b> Professor, Osaka
	Australia	<b>Dr Andrew Kelly</b> , Executive Director, BioPacific	University, Japan
		Partners	Single cells and organs on chips for
			biomedical diagnosis and drug screening
4.00 – 4.15pm	Speaker 1: <b>Dr Kade Roberts,</b> Senior Research		Speaker 1: <b>Prof Man Bock Gu</b> , Department of
4.15 – 4.30pm	Scientist, Monash University		Biotechnology, Korea University, Korea Sandwich-type Biosensors and In vitro
4.30 – 4.45pm	Development of New Polymyxin Antibiotics with		Diagnostic Systems using a Pair of
4.45 – 5.00pm	Improved Safety and Efficacy		Aptamers and Nanomaterials
	Speaker 2: <b>Jin Hu</b> , Tsinghua University, China Elastin-like polypeptide fused interferon with		Speaker 2: <b>Prof Sung Ok Han</b> , Department of
	superior pharmacokinetics, biodistribution and		Biotechnology, Korea University, Korea  Designer Nano-scale Protein Complexes for
	antitumor efficacy		C1/3/5/6 Biorefinery
	Speaker 3: <b>Ji Hoon Par</b> k, Pusan National		Speaker 3: A/Prof Alice Lee, Senior lecturer,
	University, Korea		UNSW
	Nitric oxide-releasing poly(lactic-co-glycolic acid)		Plasmonic Nanoparticle-Immunodiagnostic
	nanofiber matrices for application to wound		Systems for Food Quality and Safety
	healing		Monitoring

	Q&A		Speaker 4: <b>Dr Tai Hyun Park,</b> Professor,
			School of Chemical and Biological
			Engineering, Seoul National University, South
			Korea
			Olfactory and Taste Sensors: Integration of
			Biotechnology and Nanotechnology
			Q&A
7.00 – 11.00pm	IBS 2016 and AusBiotech 2016 official conference of	linner	
	Supported by Patheon		
	Performance the World Over®		

Wednesday 26 Octob	per 2016		
8.00am	Conference registration open		
9.00 – 9.45am	A New Model for Drug Development in Academic Institutions		
	<b>Prof Dennis Liotta,</b> Executive Director Emory Institu	ute for Drug Development, Emory College, Atlanta	USA
9.45 – 10.30am	Interrogating and Guiding the Microbiome for Ma	cro-organism Health and Productivity	
	<b>Dr James Tiedje,</b> Director, Centre for Microbial Eco	logy, 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
	Chair: <b>Dr Colin Scott,</b> Group Leader	Chair: <b>Prof Akihiko Kondo,</b> Professor, Kobe	Chair: <b>Dr Jess Smith</b> , Associate, FB Rice
	Environmental & Industrial Biotechnology, CSIRO	University, Japan	
11.00 11.00		, , , , , , , , , , , , , , , , , , ,	
11.00 – 11.30am	Keynote: <b>Prof Nicholas Turner</b> , Professor, The	Keynote: <b>Prof Emile van Zyl</b> , Senior Chair of	Keynote:
	University of Manchester, UK	Energy Research in Biofuels, Stellenbosch	<b>Dr James Crawford,</b> Chemistry Team Leader,
	Biocatalytic Cascade Reactions Enabled by	University, South Africa	Small Molecule Drug Discovery, Genentech,
	Synthetic Biology		USA
			Discovery of non-covalent BTK inhibitors for
			the treatment of rheumatoid arthritis and
			lupus
11.30 – 11.45am	Speaker 1: <b>Dr Colin Jackson,</b> Leader - Chemical	Speaker 1: <b>Prof Gunnar Liden</b> , Professor, Lund	Speaker 1: <b>Prof Maree Smith,</b> Executive

11.45am – 12.00pm	and Structural Biotechnology, Australian National	University, Sweden	Director, The University of Queensland
12.00 – 12.15pm	University	High-solids processing of lignocellulosic biomass	Discovery-Translation and the Valley of
12.15 – 12.30pm	Speaker 2: <b>Dr Claudia Vickers</b> , Associate Group	to sugars and ethanol	Death: A Personal Perspective
	Leader and Accelerate Fellow, Australian Institute	Speaker 2: <b>Juan Xia</b> , Shanghai Jiao Tong	Speaker 2: <b>Georgina Kilfoil,</b> Chief Clinical
	for Bioengineering and Nanotechnology	University, China	Officer, Benitec Biopharma
	Engineering microbial production of isoprenoid-	The regulation of flocculation by c-di-GMP	Optimization of product development in a
	based biofuels and biochemicals	phosphoesterase genes in Zymomonas mobilis	small company: trusting the process. A case
	Speaker 3: <b>Dr Carol Hartley</b> , Research Scientist &		study in two types of clinical trial failure
	Biocatalysis Team Leader, CSIRO		Speaker 3: <b>Dr Paul Stupple,</b> Director of
	Q&A		Medicinal Chemistry, Cancer Therapeutics CRC
			The Discovery of Potent and Selective
			Inhibitors of the Arginine Methyl Transferase
			PRMT5
12.30 – 1.30pm	Lunch Break and networking with exhibitors		7 111173
	Breakout 22: BioFuel/BioEnergy production	Breakout 23: Drug discovery in academic	Breakout 24: Clean environmental
		institutions	sustainability and pollution abatement
	Chair: <b>Prof Peer Schenk,</b> Professor, School of	Chair:	Co-Chairs: Prof Murray Moo-Young,
	Agriculture and Food Sciences, University of		Distinguished Professor Emeritus, University
	Queensland		of Waterloo, Canada
			<b>Prof Tomas Macek,</b> Professor of
			Biochemistry, University of Chemistry and
			Technology, Prague, Czech Republic
1.30 – 2.00pm	Keynote: <b>Prof Volker Sieber</b> , Chair, Chemistry of	Keynote:	Keynote: Prof Murray Moo-Young,
	Biogenic Resources, Technical University of		Distinguished Professor Emeritus, University
	Munich, Germany		of Waterloo, Canada
			Waste as a misplaced resource: biofuels
			from biomass residues
2.00 – 2.15pm	Speaker 1: <b>Dr Paul Bennett</b> , Science Leader,	Speaker 1:	Speaker 1: <b>Prof Eugenia Olquin</b> , Professor,
2.15 – 2.30pm	Clean Technologies, Scion, New Zealand Speaker 2: <b>Dr William Rowlands,</b> Chief Scientist,	Speaker 2	National Institute of Ecology and Climate
2.30 – 2.45pm	Licella, New Zealand	Speaker 3	Change, Mexico
2.45 – 3.00pm	Speaker 3	Q&A	Phytoremediation and phycoremediation as
	Q&A		core tools in a sustainable biorefinery
	Qui i		Speaker 2: <b>Prof Ondrej Uhlik</b> , A/Prof, Group

3.00 – 3.30pm	Afternoon Tea Break and networking with exhibitor		Leader, University of Chemistry and Technology, Prague, Czech Republic Speaker 3: <b>Dr Libing Chu,</b> Associate Professor, Tsinghua University, China Biological denitrification using biodegradable polymer PBS as carbon source to remove nitrate from groundwater and bacterial community analysis of biofilm
	Breakout 25: Marine Biotechnology and Aqua	Breakout 26: Chemistry to Biology a new	Breakout 27: BioFuels and BioEnergy
	Culture	manufacturing possibility	,
	Chair: <b>Prof Wei Zhang,</b> Director, Centre for Marine Bioproducts Development, Flinders University	Chair:	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  New technologies for bioenergy production using algae and other aquatic microorganisms  Keynote 2: <b>Prof Wei Zhang,</b> Director, Centre for Marine Bioproducts Development, Flinders  University  Australia National Marine Science Plan: Putting Marine Biotechnology and Bioproducts into the Economic Agenda	Keynote	Keynote: <b>Dr Guo-Hua Miao</b> , Director, DuPont, China Biofuels Development: from Discovery to Commercialization
4.00 – 4.15pm	Speaker 1	Speaker 1: <b>Dr Tom Williams</b> , Research Fellow In	Speaker 1: <b>Prof Yang Mu,</b> Professor,
4.15 – 4.30pm	Speaker 2	Synthetic Biology, Macquarie University	University of Science and Technology of
4.30 – 4.45pm		Speaker 2: A/Prof Robert Speight, Associate	China, China
4.45 – 5.00pm		Professor, Microbial Biotechnology, Queensland University of Technology Speaker 3 Q&A	Biohydrogen production from wastewater in microbial electrolysis cells Speaker 2 Speaker 3
			Q&A
5.00 – 6.00pm	International BioFest Networking Reception, networking Canapes, drinks, live entertainment and networking	_	

Thursday 27 October	2016
8.30am	Conference registration opens
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
11.00 – 11.45am	Biotech and the future of man
	Prof Huanming Yang, President, BGI-Shenzhen, China
1.45am – 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
1.00 – 2.00pm	IBS 2016 Closing lunch and drinks