

Certificate of Presentation

We hereby confirm that Dr. Vilia Darma Paramita

Presented

Modelling release behaviour of bioactives in high-solid food systems

15th International hydrocolloids Conference 2 – 5 March 2020, Melbourne, Australia



Lizzy Birnie
For and on behalf of Elsevier Ltd

Hydrocolloids Conference

2–5 March 2020, Bayview Eden Melbourne Hotel, Melbourne, Australia



PROGRAM



www.elsevier.com/international-hydrocolloids-conference

Dear Friends and Colleagues,

Welcome to the 15th International Hydrocolloids conference.

As ever, the food industry is rapidly growing and evolving in response to consumer demands with important issues such as the health impacts of food additives and processed food in general, as well as the environmental impact of food production being at the forefront of popular interest. In this context, it is no surprise that the application of hydrocolloids as functional ingredients for healthy formulations, nutraceuticals and plant-based products, continues to grow dramatically in its importance. We hope that this conference, as in the past, will promote collaboration between experts across the broad field of hydrocolloids and catalyse the translation of fundamental research to industrial application.

We are delighted to hold the conference in Melbourne for the second time, with the first being the 7th conference in 2004. Greater Melbourne is home to a burgeoning food sector. It is Australia's largest exporter of food products with exports soaring to \$12 billion in 2014–2015. The main food export items include dairy (\$2.3 billion), cereal (\$2 billion), beef (\$1.3 billion), sheep products (\$2.5 billion), and fruits and nuts (\$1.2 billion). The region supplies around 85% of Australia's dairy exports to countries such as China, Japan, Singapore, Indonesia, Philippines and Malaysia.

Innovation in food manufacture is supported by cutting-edge agri-food research facilities, including the Centre for AgriBioscience (AgriBio), CSIRO, DairyBio, Food Innovation Australia Limited (FIAL), and RMIT University's Food Research and Innovation Centre. Throughout the conference there will be ample opportunity to forge collaboration with members of these institutions, as well as a plethora of leading international researchers, at formal social times such as the welcome reception and conference banquet, as well as during breaks.

I would like to thank everyone that has worked tirelessly to organise this conference, the organising committee, the Food Hydrocolloids Trust, Elsevier and of course the wonderful speakers. We also respectfully acknowledge the Traditional Owners of the land, the Boon Wurrung and Woiwurrung (Wurundjeri) peoples of the Kulin Nation and pay respect to their Elders, past and present.

We look forward to a meeting that promises to be as enjoyable as it is scientifically stimulating and hope that you enjoy your visit to Melbourne.

Best wishes,
Stefan Kasapis
Conference chair
RMIT University, Australia

Oral Program

72.00 72.00		ation Room: Parkside Foyer	
72.20 11:35 11:35 11:35 11:35 12:20		Welcome Reception Room: Parkside 1 & 2	
11:35 14:35 15:20 15:20 15:20 16:00 16:00 16:00 16:00	/onday 2 March 2	2020	
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11:35 12:20 12:20 14:05 14:35 14:35 15:20 15:20 15:40 16:00 16:00 16:00 16:00 16:00	Ses	Session chair - Prof. Stefan Kasapis	
12:20 13:20 Parksid 14:35 15:20 15:20 15:40 15:40 15:40 15:40	10:50-11:35 [PL . Pro	[PL.01] Tailoring milk protein functionality Prof. Todor Vasiljevic, Victoria University, Australia	
Parksid 14:05 14:05 15:00 15:20 15:20 15:20 15:20 15:20 15:20	11:35-12:20 [PL	[PL.02] New plant proteins for sustainable and healthy foods Dr Roman Buckow CSIRO Australia	y foods
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14:35 14:35 15:20 15:20 15:40 16:00 16:00 17:30 17:30 17:30 17:30 17:30	2:20-13:20 Lun	cn Room: Parkside & Z	
14:05 14:05 15:20 15:20 16:00 15:40 16:00 16:00 16:00 16:00	Room: Parkside 4 & 5	& S	
14:05 15:20 15:20 15:20 16:00 15:40 16:00 16:00 16:00 16:00 16:00 16:00	Ses	Session chair - Prof. Todor Vasiljevic	
	13:20-14:05 [PL . Prof	[PL.03] Trends towards healthy and natural foods; challenges in UHT beverage products Prof. John Ashton, Sanitarium Health and Wellbeing Company, Australia	allenges in UHT beverage produ ompany, Australia
	14:05-14:35 [KN Ass	[KN.01] Power ultrasound: Implications for improving hydrocolloids functionalities Assoc. Prof. Asgar Farahnaky, RMIT University, Australia	hydrocolloids functionalities
	Roomer Park	kside 4 & 5	Parkside 3
5:20 5:20 6:00 6:00 7:30 7:30 9:45	Ses Ses	Session 1 – Industrial collaboration Session chair – Prof. John Ashton	Session 2 – Rheology of emulsions, suspensions and pastes Session chair – Prof. Shingo Matsukawa
	[01. 14:40-15:00 inte	[01.01] Hierarchical architecture of cellulose and its interaction with other plant cell wall polysaccharides	[02.01] Role of amylose and amylopectin in high viscosity paste of maize starch with lipid during extended pasting
5:40 6:00 7:30 7:30 9:00 9:45	15:00-15:20 [O1.	[01.02] Acetylation of intact starch in white rice alters physicochemical properties	[02.02] Lubrication of emulsions: Insights for the oral processing of foods
7:30 7:30 9:45 0:15	15:20-15:40 [O1.	[01.03] Optimizing starch thickening behavior for formulation success in salad dressings	[02.03] Rheology and structure of nanocrystalline cellulose aqueous suspensions
7:30 9:00 9:45 9:45	[01. 15:40-16:00 α-ar	[O1.04] Endogenous thermostable proteinaceous α-amylase inhibitors slow starch digestion in pasta	[02.04] Molecular structure, emulsifying and gelling ability of pectin extracted from different hawthorn varieties
9:00 9:rksid 0:15	16:00-17:30 Pos	Poster Session Room: Parkside 1 & 2	
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9:00 Parksic 9:45	uesday 3 March 2	2020	
9:45 0:15	8:30-09:00 Refr	eshment Break Room: Parkside 1 & 2	
0:15	oom: Parkside 4 8	\$ 5	
0:15	Sess	Session chair - Dr. Vassilis Kontogiorgos	
0:15		[PL.04] How to use the characteristics of hydrocolloids to tailor food functionality	s to tailor food functionality
0:15	09:00-09:45 [PL.	Prof. Elke Scholten, Wageningen University, Netherlands	s to tailor lood fulctionality
	09:45-10:15 Refr	Refreshment Break Room: Parkside 1 & 2	
		side 4 Parkside 5	Parkside 3
Release properties and analysis Session chair – Prof. Harjinder Singh		sion 3 – Hydrocolloids as Session 4 – Characterization, ctural materials for the structure and function of natural rolloids spaces of bioscripes - and modified hydrocolloids -	scterization, Session 5 – Soluble and insoluble storn of natural dietary fibre - Physiological benefits
	Rele	se properties and analysis on chair – Prof. Harjinder	nith

	1&2	14:50-15:20 Refreshment Break Room: Parkside 1 & 2	:50-15-20 F
[08.04] Improving oral bioavallability of coenzyme Q10: From edible nanoemulsion to functional food	[07.04] Effect of structural properties and activities on polysaccharides from Hericium erinaceus mycelia and fruiting bodies by ARTP mutagenesis and its molecular mechanism	[06.04] The addition of chitosan for improving the stability of rice husk silica stabilized w/o/w double emulsion	14:30-14:50 [l
[08.03] Blophysical insights into formation and prevention of amyloid hydrocolloids: Implications in neurodegenerative diseases	[07.03] Mechanical transformation of two different molecular weights of gelatin in a high-solid environment	[06.03] Pea protein particles as stabilisers of oil-in-water emulsions	
[08.02] Starch molecular order in processed foods affects digestibility in humans	[07.02] Genipin crosslinking in biopolymer matrices for improved structural properties in relation to natural bioactive compound diffusion	[06.02] Interfacial structures and functional performance of droplet-stabilized emulsions formed with protein particles	13:50-14:10
 [08.01] Biological activities of enzymatically degraded polysaccharides from red algae 	[07.01] Modelling release behaviour [08.01] Biological activities of bioactives in high-solid food of enzymatically degraded systems polysaccharides from red al	[06.01] Interfacial engineering of oil-in-water emulsions with pectin	13:30-13:50
Session 8 – Isolation, characterizations and health implications of bioactive polysaccharides 1 Session chair – Dr. Sushil Dhital	Session 7 - High-solid hydrocolloid systems and the glass transition Session chair - Dr. Heather Shewan	Session 6 – Hydrocolloids for stabilisation of emulsions and foams 1 Session chair – Dr. Vassilis Kontogiorgos	
Parkside 3	Parkside 5	Parkside 4	Rooms:
		Lunch Room: Parkside 1 & 2	12:25-13:30
(05.06) Solvent extraction and degumenting of Crotelaria juncea seeds: Physio-ochemical and rheological characterization of a Natural Gum	[04.05] Characterization of structural and physicochemical properties of chemically modified wheat starch to be used as a depressant during mineral flotation	[03.05] Egg white and whey protein gel structures for controlled digestion and release	12:05-12:25
(U5.U4) Interaction of polyphenols with soluble distary fibres	[04.04] High-amylose wheat flour as a functional food ingredient	[03.04] Co-delivery of curcumin and resveratrol in zein nanostructures integrated in 3D printed gelatin: Formulation, printability, stability and in vitro gastrointestinal studies	11:45-12:05
US-US EXPIORING the degradation of plant cell wall fibers by in vitro fermentation with human faecal inoculum	[04.03] The importance of surface attributes on bulk and functionality performance of starch granules	[03.03] Cross-linked casein micelle hydrogel as nanocarrier for jaboticaba (Myrciaria cauliflora) extract: Release properties and protection against UV-light exposure	11:25-11:45
IOS.UZI Mechanisms underpinning lipid-reducing properties of soluble dietary fibres	[04.02] Structure and functionality of red algal polysaccharides	[03.02] Controlled release of natural bloactive compounds from a moving boundary of genipin- crosslinked WPI matrices	11:05-11:25
	[04.01] Functional properties of pregelatinized and cold-water swelling starches in the presence of other food compounds	[03.01] Overcoming absorptive barriers of nutraceuticals using food-grade delivery systems	10:45-11:05
physical form of dietary fibers to a healthy gut microbiota Prof. Bruce Hamaker, Purdue University, USA	IKN.03] Network Structure of the polysaccharide gels viewed from polysaccharide gels viewed from microscopic and macroscopic aspects aspects prof. Shingo Matsukawa, Tokyo University of Marine Science and Technology, Japan	[KN.02] Pectin at the oil-water interface: Arrangement, anchoring, and modes of adsorption and modes of ontoglorgos, The Dr. Vassilis Kontoglorgos, Australia University of Queensland, Australia	10:15-10:45

Principal Investigator Amy (Hui-Mei) Lin, Agency for Science, Research and Technology (A*STAR),	for Science, Res	late University, USA	fiber gum and starch octenylsuccinate Prof Yong Cheng Shi, Kansas State University, USA	
[KN.06] Starch digestion in young children	[KN.06] Starch	perties of corn	[KN.05] Structure and emulsion properties of corn	11:00-11:30
Application in systems Session chair – Prof. Steve Cui	Application in systems Session chair – Prof. Steve Cui	3s - Emulsions/	of natural and modified hydrocolloids - Emulsions/ phase separation Session chair - Dr. Elliot Gilbert	
Session 13 – Structural properties and novel	Session 13 - St	cture and function	Session 12 - Characterization, structure and function	
	Parkside 3		Parkside 4 & 5	Rooms:
		e1&2	Refreshment Break Room: Parkside 1 & 2	10:30-11:00
		charides research gri-Food, Canada	[PL.06] Trends in bioactive polysaccharides research Prof. Steve W. Cui, Agriculture and Agri-Food, Canada	09:45-10:30
valis and polysaccharide composite	ties of plant cell v	mechanical proper	[PL.05] Molecular architecture and mechanical properties of plant cell walls and polysaccharde composite models Prof. Mike Gidley, University of Queensland, Australia	09:00-09:45
		er	Session chair - Prof. Bruce Hamaker	
			le 4 & 5	Room: Parkside 4 & 5
		e1&2	08:30-09:00 Refreshment Break Room: Parkside 1 & 2	08:30-09:00
			March 2020	Wednesday 4 March 2020
rheological properties of formulation prepared with alkylpolyglucosides and Melaleuca alternifolia (tea tree) oil	tructural very of noids	food proteins as structural materials for delivery of hydrophobic flavonoids	release from gelatine-starch matrices	
[011.06] Phase diagram and	ent of various	[010.06] Assessment of various	[09,06] Flavour distribution and	17:00-17:20
[011.05] Immunomodulatory effect of bioactive mushroom polysaccharides isolated from Polyporus rhinoceros	sable β-casein Igh protein Iection enables Iing and release	[010.05] Customisable β-casein nanocarriers through protein genetic variant selection enables tuneable drug binding and release properties	[09.05] Effect of red wine matrix and salivary proteins on oral tribology	16:40-17:00
[011.04] Chemical and functional properties of pectin extracted from Passiflora edulis f. edulis (purple passion fruit) peel by microwave-assisted heating	manufacturing able hydrogels _I B1	[010.04] Additive manufacturing of edible and printable hydrogels containing vitamin B1	[09.04] Impact of food processing on the rheological and tribological properties of plant cells and derived polysaccharides	16:20-16:40
[011.03] Design of a pH- responsive hydrogel for orally controlled release of bloactive peptides	apsulation of clodextrin/k- in by a modified ss	[010.03] Nanoencapsulation of β-carotene in β-cyclodextrin/k-carrageenan/protein by a modified spray drying process	[09.03] Tribology of model food particles paired with tonguetextured surfaces	16:00-16:20
[011.02] Effects of pulsed electric field time on the pasting and texture properties of wheat starch	itioning semblies: cture-property- ships	[010.02] Drug partitioning in colloidal self-assemblies: Correlation of structure-property-energetics relationships	[09.02] A dynamic tribology protocol: Measuring friction response of delity proteins on human saliva pellicle, validated against sensory perception	15:40-16:00
[011.01] Probing lipid oxidation in food emulsions with correlative imaging workflows	n of mucin gel degradable and ties	[010.01] Generation of mucin gel particles with self-degradable and -releasable properties	[09.01] Influence of matrix phase viscosity on in-mouth detectability of hydrocolloid based micro hydrogels	15:20-15:40
Session 11 – Characterization, structure and function of natural and modified hydrocolloids - Plant based polysaccharides Session chair – Dr. Purnima Gunness	ocolloids lals for the of bioactives Vilia Paramita	Session 10 - Hydrocolloids as structural materials for the controlled release of bloactives Session chair - Dr. Vilia Paramita	Session 9 - Errects of hydrocolloids on oral processing and tribology Session chair - Dr. Tuyen Truong	
Parkside 3		Parkside 5	Parkside 4	Rooms:

	Doom: Darkeide 1 & 2	The state of the s
n: New approaches to controlling bloaccessibility and	[PL_08] Biopolymer interactions during gastric digestion: New approaches to controlling bioaccessibility and health impacts Prof. Harjinder Singh, Massey University, New Zealand	09:45-10:30
	[PL.07] Electrospinning of polysaccharides Prof. Gregory R. Ziegler, Penn State University, USA	09:00-09:45
	Session chair - Assoc. Prof. Asgar Farahnaky	
	de 4 & 5	Room: Parkside 4 & 5
	08:30-09:00 Refreshment Break Room: Parkside 1 & 2	:30-09:00
	arch 2020	Thursday 5 March 2020
	Conference Dinner Room: Parkside 4 & 5	19:00-22:00
[017.04] Characterization of the mixed gel from ovalburnin and sodium caseinate in the presence of glucono delta lactone	[016.04] High temperature induced structural [017.04] Characteriza changes of apo-lactoferrin and its interaction with ovalbumin and sodiun beta-lactoglobulin and alpha-lactalbumin for potential glucono delta lactone encapsulation strategies	16:40-17:00
[017.03] Influence of lactose pre-crystallization towards 'fat-bridging' in infant formula powders	[016.03] Mimicking lipid self-assembly in digesting milk-like emulsions	16:20-16:40
[017.02] Dried whey protein fractal aggregates for substituing texturizing additives in dairy products	[016.02] Structural and diffusion characteristics of low-solid hot moulded alginate gel systems	16:00-16:20
[017.01] Effects of using low frequency ultrasound treated milk protein mixtures on the functionality modifications of secondary dairy products	[016.01] 3D printing complex biopolymer gel structures using suspended layer additive manufacturing (SLAM)	15:40-16:00
Session 17 – Hydrocolloid applications to meet the specific needs of multiple industrial uses 1 Session chair – Asst. Prof. Mario Martinez	Session 16 – Hydrocolloids as structural materials for the controlled release of bioactives - Structural changes governing release Session chair – Felicity Whitehead	
Parkside 3	Parkside 4 & 5	Rooms:
THE RESERVE THE PARTY OF THE PA	Refreshment Break Room: Parkside 1 & 2	15:10-15:40
(015.04) Structural-prebledic ഉദ്യൂക്ഷായ രേഷ്ണന്നില് for glucose oxidase ഒന്ന് perങ്ങാചോയെ നോർദ്നിലർ wheat arabinoxylan	[014.04] Partitioning and release of anticancer drugs in colloidal nonionic surfactant vesicles niosomes: Mechanistic insights	14:50-15:10
O15.03] How dietary tibres to conspices plant toods are fermented in vitro		14:30-14:50
[015.02] Utilization of wheet germ oil and wheat bran fibre as fat replacer for the development of functional beef parties) [014.02] Viscoelastic properties and stability of O/W emulsions as affected by basil seed gum, xanthan gum and locust bean gum interaction	14:10-14:30
015.01] Molecular interactions between p-lactoglobulin and vanillic acid under neutral and acidic pH conditions		13:50-14:10
Session 13 – Soluble and Insoluble arealy libre Molecular characteristics Session chair – Prof. Mike Gidley	Session 14 – Structural properties and novel functionality of mixed hydrocolloid systems - Emulsion-based mixed hydrocolloid systems Session chair – Prof. Elke Scholten	
Talkaide o		Rooms:
Dockside 3	D Lunch Room: Parkside 1 & 2	12:50-13:50
[013.04] Beef texture modification with hydrocolloids for people with dysphagia	1	12:30-12:50
[013.03] Structural characterization of interpenetrating network of high acyl gellan and maltodextrin mixed gels	0 [012.03] Quantitative phase volume estimation of agarose-ghee gels using 3D confocal laser scanning microscopy and blending law analysis: A comparison	12:10-12:30
lamella polysaccharides critically determine the functionality of bean flours	milk proteins and oat polysaccharides	11:50-12:10

I (023.05) Measurement and character issues or supramolecular in heat and pressure treated maize starch granule under similar degree of gelatinization	[022.05] Tea residue derived double network hydrogel as fast adsorbent for Cr (III), Pb(II) and Fe(III) removal in complex water environment	16:30-16:50
	[022.04] Structural characteristics and immunological activity in vitro of polysaccharide isolated from the fermented mycelium of dominant Hericium erinaceum strains by hybrid breeding	16:10-16:30
(023.03) Improvement of foaming and emulasincular properties of coconut (Cocos Nucifera L.) protein by Non-enzymatic deamidation	[022.03] The effect of protein purification processes on the functional bulk behaviour of yellow pea fractions	15:50-16:10
[023.02] Enzyme industry by-product as a sustainable source of hydrocolloids	[022.02] Not sequentially but simultaneously: Facile extraction of proteins and oleosomes from oilseeds	15:30-15:50
[023.01] Structural and physicochemical properties of native starches and non-digestible starch residues from Korean rice cultivars with different amylose contents	[022.01] Low frequency ultrasound-assisted modification of Jupin protein isolate	15:10-15:30
Session 23 - Isolation, Characterizations and reading implications of bioactive polysaccharides 2 Session chair - Prof. Yong Cheng Shi	Session 22 – Characterization, structure and function of natural and modified hydrocolloids - Proteins Session chair – Lloyd Condict	
Parkside 3	Parkside 4 & 5	Rooms:
	Refreshment Break Room: Parkside 1 & 2	14:40-15:10
[021.04] Formulation and development of alginate micro-beads containing self-micro-emulsifying drug delivery system of flavonoids	[020.04] Cellulose moisture content minimization through a combined physico-chemical treatment	14:20-14:40
[021.03] Curcumin-loaded emulsion as a delivery vehicle for the photosensitization of fresh foods	[020.03] Off flavour development in UHT beverages incorporating faba bean protein	14:00-14:20
[021.02] Designing W/O/W double emulsions stabilized by casein-whey protein complexes using low frequency ultrasound	[020.02] Molecular interactions between b-casein and phenolic acids under ultra-high temperature conditions	13:40-14:00
[021.01] Interfacial rheology and stability of air bubbles stabilised by Chaplin E peptide; A comparison with β-lactoglobulin and β-casein	§320.01] Revealing the driving components of red wine mouthfeel by tribology approaches	13:20-33:40
Session 21 – Hydrocolloids for stabilisation of emulsions and foams 2 Session chair – Asst. Prof. Yuuka Fukui	Session 20 – Hydrocolloid applications to meet the specific needs of multiple industrial uses 2 Session chair – Dr. Jayani Chandrapala	
Parkside 3	Parkside 4 & 5	
	Lunch Room: Parkside 1 & 2	12:20-13:20
[019.04] Physicochemical and thermal properties of edible films prepared from camel skin gelatin plasticized with glycerol and sorbitol	[018.04] Whey protein isolate bioactive peptide stabilised nanoemulsion	12:00-12:20
[019.03] Analysis of the degradation and utilisation of plant cell wall polysaccharides by human gut microbiota	[018.03] Physicochemical and functional properties of almond protein isolate as a function of extraction conditions and solution pH	11:40-12:00
[019.02] Characterization, rheological properties, and health-promoting benefits of the exopolysaccharide produced by novel probiotic Lactococcus garvieae C47 isolated from camel milk and its impact on the rheological behavior of fermented camel milk	[018.02] Polysaccharide-based hydrogels with self- healing and on-demand dissolving ability	11:20-11:40
[019.01] Modified pomelo pectin via electron beam and its potential application as a prebiotic	[018.01] Multilayer coating composed of Eryngium campestre L. essential oil encapsulated in nano-chitosan to prolong the shelf-life of fresh cherry fruits	11:00-11:20 I
Session 19 - Characterization, structure and function of natural and modified hydrocolloids 2 Session chair - Prof. Gregory R. Ziegler	Session 18 - Characterization, structure and function of natural and modified hydrocolloids 1 Session chair - Dr. Mahsa Majzoobi	
Parkside 3		Rooms:

Room: Parkside 4 & 5
16:50-17:00 Conference Close

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Plenary Speakers



Professor John Ashton, Sanitarium Health and Wellbeing Company, Australia

Talk Title: Trends towards healthy and natural foods; challenges in UHT beverage products



Dr. Roman Buckow, CSIRO People, Australia

Talk Title: New plant proteins for sustainable and healthy foods



Professor Steve W. Cui, Agriculture and Agri-Food Canada

Talk Title: Trends in bioactive polyscecharides research



Professor Mike Gidley, University of Queensland, Australia

Talk Title: Molecular architecture and mechanical properties of plant cell walls and polysaccharide composite models



Professor Elke Scholten, Wageningen University, Netherlands

Talk Title: How to use the characteristics of hydrocolloids to tailor took functionality



Professor Harjinder Singh, Massey University, New Zealand

Talk Title: Biopolymer interactions during gastric digestion: New approaches to controlling bioaccessibility and health impacts



Professor Todor Vasiljevic, Victoria University, Australia

Talk Title: Tailoring milk protein functionality



Professor Gregory R. Ziegler, Penn State University, USA

Talk Title: Electrospinning of polysaccharides

Keynote Speakers



Associate Professor Asgar Farahnaky, RMIT University, Australia

Talk Title: Power ultrasound. Implications for improving hydrocolloids functionalities



Professor Bruce Hamaker, Purdue University, USA

Talk Title The importance of physical form of dietary blass to a healthy gut microbiota



Br. Vassilis Kontogiorgos, The University of Queensland, Australia

Value Pick: Sweetin at the oil-water interface: Jackbage word, anoboring, and modes of adsorption



Principal Investigator Amy (Hui-Mei) Lin, Agency for Science, Research and Technology (A*STAR), Singapore

Talk Title, States digestion in young children



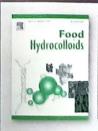
Professor Shingo Matsukawa, Tokyo University of Marine Science and Technology, Japan

Talk Title: Network structures of polysaccharide gels viewed from microscopic and macroscopic aspects



Professor Yong Cheng Shi, Kansas State University, USA

Talk Title: Structure and emulsion properties of corn fiber gum and starch octenylsuccinate





The conference will be supported by two special issues to be published in Food Hydrocolloids and Bioactive Carbohydrates and Dietary Fibre.

