4th International Dietary Fibre Conference 2009 DF09

1 - 3 July 2009, Vienna, Austria Schönbrunn Palace



www.icc.or.at/events/df09

DIETARY FIBRE 2009 Draft Programme

Status: 31 March 2009

Wednesday, 1 July 2009

I. DIETARY FIBRE ANALYSIS WORKSHOP

Chairpersons: Barry McCleary (Megazyme, Ireland),

Jon DeVries (Medaillon Laboratories/General Mills, USA)

09.00 History of DF Definition and Relationship of AOAC Methodology to the Definition

Jon DeVries (Medaillon Laboratories, USA)

Basic Chemistry and Theory of Codex Definition Dietary Fibre Method

Barry McCleary (Megazyme, Ireland)
Discussion and Coffee/Tea Break

Video of Dietary Fibre method/Performance/Discussion

Optimizing HPLC measurements of Non Digestible Oligosaccharides

Kazuhiro Okuma (Matsutani, Japan)

Instrumental approaches to desalting steps of Codex Definition of Dietary Fibre Methods

Barry McCleary/Jon DeVries

Methodology to match the Codex definition - Discussion and/or additional presentations

12.30 End of Workshop

II. HEALTHGRAIN SYMPOSIUM - CEREAL GRAIN FIBRE AND HEALTH

Chairpersons: Kaisa Poutanen (VTT and Kuopio University, Finland)

Jan Willem van der Kamp (TNO Quality of Life, the Netherlands)

09.00 INTRODUCTION

Cereal grain fibre and HEALTHGRAIN *Kaisa Poutanen* (VTT, Finland)

CEREAL GRAIN FIBRE AND HEALTH MAINTENANCE

Evaluations of the health effects of whole grains must address their fibre rich fractions *Michael Falk* (*Life Sciences Research Office, Inc, USA*)

Cereal Fibres, anti-oxidant activity and health

Vincenzo Fogliano (Dept Food Science, Naples University, Italy)

CEREAL GRAIN FIBRE LEVELS AND PROPERTIES

Improving the content and composition of wheat dietary fibre

Peter Shewry (Rothamsted Research, UK)

Process-induced changes in cereal fibres in relation to their health effects **Per Aman** (Swedish University of Agricultural Sciences, Uppsala, Sweden)

Coffee/Tea Break

SPECIFIC GRAIN BASED FIBRES FOR HEALTH BENEFITS

Aleurone and health

Fred Brouns (Maastricht University, the Netherlands)

Cereal fibres and type-2 diabetes

Andreas Pfeiffer (Deutsches Institut für Ernährung, Potsdam, Germany)

Wheat bran derived arabinoxylan oligosaccharides - a novel prebiotic

Jan Delcour (Katholieke Universiteit Leuven, Belgium)

GENERAL DISCUSSION

12.30 END OF SYMPOSIUM

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20.00



13.3	30	OPENING OF THE 4TH DIETARY FIBRE CONFERENCE
		Opening speeches
40 r	min	Keynote lecture: Dietary fibre, insights and opportunities Michael McBurney (DSM, American Society for Nutrition, USA)
10 r	min	Dietary fibre health claims, challenges for industry and academia Toine Hulshof (Kellogg, the Netherlands)
14.3	30	Session PREBIOTICS – NEW TRENDS AND DEVELOPMENTS
		Prebiotics and health –overview Nathalie Delzenne (University de Louvain la Neuve, Belgium)
15.0	00	Oligosaccharides, gut bacteria and health: structure-function relationships Ian Rowland, Robert Rastall (University of Reading, UK)
15.2	20	Isolation, Structural characterisation and prebiotic potential of cereal derived arabinoxylo oligosaccharides- Maija Tenkanen (University of Helsinki, Finland)
15.4	40	Novel molecular screening tool for biofunctional ingredients – identification of bifidogenic components in human milk Bart Keijser (TNO, the Netherlands)
16.0	00	Coffee/Tea Break - Exhibition and Poster viewing
16.3	30	Impact of dose level of soluble fibre on prebiotic induced changes in the human gut microbiota Eddie Deaville . Glenn Gibson et al. (University of Reading, UK)
16.4	45	Effects of native chicory inulin on constipation in elderly people Heidi Jacobs (Cosucra, Belgium)
17.0	00	Enzyme resistant dextrin from potato starch as potential prebiotic Janusz Kapusniak, (Jan Dlugosz University, Poland)
17.	15	Fermentation patterns and short chain fatty acid profiles of wheat dextrin and other functional fibres Joanne Slavin (University of Minnesota, USA)
17.3	30	Health benefits of soluble fibres and new European food and beverage opportunities Sandra Einerhand (Tate & Lyle, France)
17.4	45	Cosucra company presentation: Profiling to your needs Carmen Malnero Fernandez (Cosucra, Belgium)
18.0	00	EXHIBITION AND POSTER VIEWING
00.4	0.0	WELCOME DECERTION City Hall of Vianna Wannanaad

Thursday, 2 July 2009

WELCOME RECEPTION – City Hall of Vienna, Wappensaal

08.30	Session LEGISLATION, ANALYSIS AND CONSUMER PERCEPTION
08.30	Definition of dietary fibre Joanne Lupton (Texas A&M University, USA)
08.55	Validating official methodology commensurate with dietary fibre research and definitions Jon DeVries (Medaillon Laboratories, USA)
09.15	Development of an all-inclusive method for the measurement of dietary fibre Barry McCleary (Megazyme, Ireland)
09.30	Consumer perceptions of dietary fibre Victoria Betteridge (Tate & Lyle, UK)
09.50	Dietary fibre in the Australian setting – recommendations, intakes, research innovations and emerging technologies Anthony Bird (CSIRO, Australia)
	SHORT HIGHLIGHT PRESENTATIONS
10.10	Resistant starch in raw and cooked cereal based foods Marina Carcea (INRAN, Italy)
10.15	Microwave-induced pressure disintegration of resistant starch in fibre analysis Heinz Themeier (MRI, Germany)
10.20	Pitfalls in the determination of the total dietary fibre content and the calculation of the energetic value in food products. A case study *Kommer Brunt* (Eurofins, the Netherlands)

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10.30	Coffee/Tea Break – EXHIBITION AND POSTER VIEWING
11.00	Session RESISTANT STARCH
11.00	Resistant starch and human health David Topping (CSIRO, Australia)
11.30	Resistant starch improves insulin sensitivity in rats fed a high fat diet Maria Diaz-Rubio (INRA, France)
	SHORT HIGHLIGHT PRESENTATIONS
11.50	Fermentability of resistant starch preparations varies in vitro Maria Stewart (University of Hawaii)
11.55	Occurrence of a "very slowly digestible" starch fraction in different whole or dehulled cereal foods Christèle Icard-Vernière (IRD, France)
12.00	Formation of high levels of resistant starch from high amylose corn starches by debranching and heat treatments and determination of functional properties Serpil Ozturk (Haceteppe University, Turkey), Perry Ng (Michigan State U. USA)
12.20	Lunch - EXHIBITION AND POSTER VIEWING
14.00	Session DIETARY FIBRE – HEALTH BENEFITS AND THEIR MECHANISMS
14.00	Fibre, probiotics and the immune system in different life-stages **Ascensión Marcos** (CSIC, Spain)
14.25	A potential mechanism linking hydroxy propyl methyl cellulose dietary supplementation and reduction of metabolic syndrome symptoms Wallace Yokoyama (USDA ARS, USA)
14.45	Investigations of the bile acid binding mechanisms of lupine dietary fibre Ute Schweiggert (Fraunhofer, Germany)
15.05	Arabinoxylans and inulin affect the mucosa associated bacterial community Pieter van den Abbeele (Ghent University, Belgium)
15.25	Wheat bran consumption significantly impacts stool weight in humans Yanni Papanikolaou (Kellogg Canada Inc.)
15.50	Coffee/Tea Break – EXHIBITION AND POSTER VIEWING
16.20	Session DIETARY FIBRE – PROCESSING AND PRODUCTS
	SHORT HIGHLIGHT PRESENTATIONS
16.20	Combination of defatting and dry fractionation technologies to produce oat ingredient with high beta-glucan concentration Juhani Sibakov (VTT, Finland)
16.30	Production of fermentable wheat and rye bran-derived arabinoxylo oligosaccharides in a dry milling process <i>Valerie van Craeyveld</i> (KU Leuven, Belgium)
16.35	Isolation and characterization of glucuronoarabinoxylans from wheat bran obtained by classical and ultrasound assisted extractions methods Jürgen Hollmann, Meinolf Lindhauer (MRI, Germany)
	Added fibre to bread – structure function relationships – can we come to general statements?
16.40	An approach to structure-function relationships of polymeric dietary fibres in foods: significance in breadmaking applications
	Concha Collar (CSIC, Spain)
	SHORT HIGHLIGHT PRESENTATIONS: Structure-function relationships of polymeric fibres – focus on bread
17.10	Structure-function relationships of dietary fibres and their interactions with gluten in a dough matrix. Lizette Oudhuis (TNO, the Netherlands)
17.15	Impact of texture modification and dietary fibre content on glycemic index and acceptability of French bread Luc Saulnier (INRA, France)
17.20	Dietary Fibre: functional properties useful for its incorporation in bakery functional foods Dimitra Lebesi , Constantina Tzia (Technical University of Athens, Greece)
17.25	Interaction of insoluble oat fiber, dough conditioners and other dough constituents in optimizing bread formula with high whole grain and fiber content <i>Rajen Mehta</i> (SunOpta, USA)
17.30	Examining the changes on dietary fibre and beta-glucan in barley flour and barley steamed bread Shin Lu (CGPR&DI, Taiwan)

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17.35	Panel discussion – What are the underlying principles explaining behaviour of different types of fibre

18.00 End of Session

20.00 CONFERENCE DINNER – RATHAUSKELLER, City Hall of Vienna

Friday, 3 July 2009

08.30	Session DIETARY FIBRE AND COPASSENGERS
08.30	Dietary fibre, copassengers and health Julie Miller Jones (College of St Catherine, USA)
09.00	Metabolic profiling of plasma from pigs fed high fibre rye or high fibre wheat diets show increased betaine levels Mette Hedemann, Knud Erik Bach Knudsen (Aarhus University, Denmark)
	SHORT HIGHLIGHT PRESENTATIONS
09.20	Antioxidant properties of cookies supplemented with sugar beet dietary fibre Marijana Sakač (Institute for Food Technology, Serbia)
09.25	Activation and inhibition of nuclear factor kappa b by cereal extracts: role of dietary phenolic acids Stefan Sahlstrøm (University of Life Sciences, Norway)
09.35	Session GLYCEMIC RESPONSE
09.35	Processing affects Beta-glucan solubility and starch digestibility of oat bran foods and the resulting glycemic response of humans Susan Tosh , Peter Wood (Guelph Food Research Centre, Canada)
09.55	Glycemic control of extruded breakfast cereals: use of dietary fibres Charles Brennan (University of Manchester, UK)
10.15	SHORT HIGHLIGHT PRESENTATIONS
10.15	The effects of extrusion cooking and dietary fibre on in vitro starch digestibility and technological performance of model foods Anton Alldrick (Campden BRI, UK)
10.20	TIM Carbo - reliable in vitro methodology to measure glycemic response Susann Bellmann , Robert Havenaar, (TNO, the Netherlands)
10.25	Coffee/Tea Break – EXHIBITION AND POSTER VIEWING
10.55	The significant impact of low viscous fibre on glycemic response Geoffrey Livesey (Independent Nutrition Logic Ltd, UK)
11.15	Dietary non-oil seed pulses taken alone or as part of high-fibre diets improve glycemic control with significant heterogeneity: a meta-analysis of randomized controlled experimental trials. Cyril Kendall, John Sievenpieper, David Jenkins (University of Toronto, Canada)
11.35	Functionality of low glycemic impact sugars and polyols using DSC, RVA and cookie baking Meera Kweon (USDA ARS, USA) Louise Slade and Harry Levine
11.55	Health benefits of fibres-convincing, probable, possible-a birds eye view-panel discussion chaired by ILSI Europe
12.25	AWARDS General Mills Award for Health Innovation Kraft Foods Award for Cereal Fibre Research
12.45	Lunch - EXHIBITION AND POSTER VIEWING
13.30	Session DIETARY FIBRE, SATIETY AND THE METABOLIC SYNDROME
13.30	Fermentable fibres, appetite regulation and body composition Gary Frost (Imperial College, UK)
14.00	Alginates, factors influencing their ability to modulate satiety and weight loss Mary Ellen Camire (University of Maine, USA)
14.20	Fermentations in the colon unraveled using 13C labeled substrates – Implications for obesity and gut health <i>Marjorie Koenen</i> , (TNO, the Netherlands)
14.40	Flax mucilage-enriched meals suppress postprandial appetite and lipemia in young healthy males Mette Kristensen (University of Copenhagen, Denmark)
15.00	Effects of a soluble dietary fibre supplementation with nutriose [®] fb on risk factors of the metabolic syndrome in chinese male adults Catherine Lefranc Millot (Roquette, France)
15.15	Oligofructose modulates gut peptides involved in satiety regulation in rats Diederick Meyer (Sensus, the Netherlands)
15.30	Closing Address