



6th International DF Conference 2015 **From Fibre Functionality to Health**



Paris (France), 1 – 3 June 2015

Organising Committee

Michaela Pichler, ICC, Austria (*Chair*)
Joel Abecassis, INRA, France
Laurence Prevosto, INRA, France
Sabine Gratzner, ICC, Austria
Line Friis Lindner, ICC, Austria

Policy Advisory Board

Jan Willem van der Kamp, TNO, Netherlands (*Chair*)
Michel Clauliac, Ministry of Health, France
Gwenaëlle Bizet, Ministry of Agriculture, France
Hans Verhagen, RIVM, the Netherlands

Industry Advisory Board

Jan Willem van der Kamp, TNO, Netherlands (*Chair*)
Toine Hulshof, Kellogg's Europe
Ruedi Duss, DSM, Switzerland
Stephan Theis, Beneo Group, Germany
Michel Infantes, Mondelēz, France

Scientific Committee

Monique Axelos, INRA, France (*Chair*)
Joel Abecassis, INRA, France
Charles Brennan, Lincoln University, New Zealand
Fred Brouns, Maastricht University, Netherlands
Marina Carcea, INRAN, Italy
Martine Champ, INRA, France
George Fahey, University of Illinois, USA
Kati Katina, University of Helsinki, Finland
Yolanda Sanz, IATA, Spain
Julie Miller Jones, College of St. Catherine, USA
Kaisa Poutanen, VTT, Finland
Luc Saulnier, INRA, France
Henk Schols, Wageningen University, Netherlands
Joanne Slavin, University of Minnesota, USA
Louis-Georges Soler, INRA, France
Jan Delcour, Katholieke Universiteit Leuven, Belgium
Talitha Best, CQ University, Australia
Marta Izydorczyk, Canadian Grain Commission, Canada
Carolin Mellinger Silva, Embrapa, Brazil
Angela Zuleta, University of Buenos Aires, Argentina
Hamit Köksel, Hacettepe University, Turkey
Meinolf Lindhauer, MRI, Germany
Naushad Emmambux, University of Pretoria, South Africa
Xueling Zheng, Henan University of Technology, China
Furio Brighenti, University of Parma, Italy



PROGRAMME

Monday, 1st June 2015

08:00 - 09:00	REGISTRATION FOR PRE-CONFERENCE WORKSHOPS
09:00 – 12:00	PRE-CONFERENCE WORKSHOPS (with separate registration only) Practical Workshop on the Measurement of Total Dietary Fibre and Available Carbohydrates Organised by: Barry McCleary, Megazyme International, Ireland Chris Kelley, Ankom Technology, USA Location: Salon Carlades
09:00 – 12:00	DF15 meets the project MyNewGut Organised by: MyNewGut Project Location: Grands Causes

6th International Dietary Fibre Conference

11:00 - 14:00	REGISTRATION FOR CONFERENCE
14:00–15:45	INTRODUCTIVE SESSION Chairs: Monique Axelos, INRA, France Michaela Pichler, ICC, Austria 14:15 - 15:00 Joel Doré, INRA, France – <i>Overview of the role of gut microbiota and health.</i> 15:00 - 15:45 Kaisa Poutanen, VTT, Finland – <i>Dietary fibre – from structure to function and health: state of the art and open questions.</i>
15:45 - 16:15	Coffee break, exhibition and poster viewing
16:15 – 18:00	SESSION 1: CONSUMER AND REGULATORY ASPECTS Chairs: Louis-Georges Soler, INRA, France Fred Brouns, University of Maastricht, Netherlands 16:15 – 16:45 Sophie Vinoy, Mondelez International, France – <i>High fibre food market, consumer interest and products.</i> 16.45 – 17:00 Lorraine Niba, Ingredion Inc., USA – <i>Consumer awareness and perceptions of fibre fortifications for digestive health and satiety benefits.</i> 17:00 - 17:30 Paula Trumbo, FDA, USA – <i>Dietary fibre: Labeling, structure function claims and health claims in the United States.</i> 17:30 – 18:00 Hans Verhagen, National Institute for Public Health and the Environment, Netherlands – <i>Health claims in Europe with a focus on fibre.</i>



18:00 – 19:00	EXHIBITION AND POSTER VIEWING SESSION
19:00 – 21:00	WELCOME RECEPTION <i>sponsored by French Professional Organisations</i>
Chairs:	Joël Abecassis , INRA, France Martijn Noort , TNO, Netherlands – <i>Healthgrain Forum study: barriers in increasing wholegrain content of bread and bakery products – industry views in Finland, Italy, Netherlands and UK.</i>

Tuesday, 2nd June 2015

08:00 – 09:00	KELLOGG's SCIENTIFIC BREAKFAST MEETING
08:05 – 08:50	Dietary Fibre from a Manufacturer's Perspective: Meeting Public Health Needs and Pleasing Consumers
SESSION 2:	CONSUMER HEALTH
09:00 – 10:30	SESSION 2a: Colonic microbiota and functions
Chairs:	Marina Carcea , CRA-NUT, Italy Yolanda Sanz , CSIC, Spain
09:00 – 09:30	Joanne Slavin , University of Minnesota, USA – <i>Fibre and intestinal function.</i>
09:30 – 09:45	Jan de Vries , Nutrition Solutions, Netherlands – <i>Different types of dietary fibres and their effects on stool bulking, stool frequency and transit time: a systematic review of intervention trials.</i>
09:45 – 10:00	Abellán Ruiz , Catholic University of Murcia, Spain – <i>Effect of digestion-resistant maltodextrin on colonic transit time and stool weight: a randomized controlled clinical study.</i>
10:00 – 10:15	Rachel Schendel , Karlsruhe Inst. of Techn., Germany - <i>Metabolism of 8-5-coupled dehydrodiferulates by human intestinal microbiota.</i>
10:15 – 10:30	Michael Conlon , CSIRO, Australia – <i>Intake of butyrylated high amylose maize starch prevents red meat-induced O6-methyl-2-deoxyguanosine adducts in human rectal biopsies.</i>
10:30 – 11:00	Coffee break, exhibition and poster viewing

11:00 – 13:00	SESSION 2b: Metabolic health
Chairs:	Martine Champ , INRA, France Julie Miller Jones , College of St. Catherine, USA
11:00 – 11:30	Nathalie Delzenne , Louvain Drug Research Institute, Belgium – <i>Dietary management of systematic metabolic diseases and inflammation: which role for which fibre?</i>
11:30 – 11:45	Kristin Verbeke , KU Leuven, Belgium – <i>Impact of interventions with inulin-type fructans on the colonic bacterial metabolism in humans and its implications for health.</i>
11:45 – 12:00	Stefan Kabisch , Department of Clinical Nutrition German Institute of Human Nutrition, Potsdam, Germany – <i>How do insoluble oat cereal fibres improve insulin sensitivity? Role of intestinal bacteria, serum amino acids and the mTOR signalling pathway in humans</i>



12:00 – 12:15	Luc Saulnier , INRA, France – <i>Increase of dietary fibre content in a typical French diet by incorporating bran derived fractions in wheat products modifies ceramide metabolism.</i>
12:15 – 12:30	Caroline Honig , German Institute of Human Nutrition, Potsdam, Germany – <i>Differential effects of a two-year intervention in prediabetic subjects (the OPTimal Fiber Trial (OPTIFIT)).</i>
12:30 – 12:45	Susan Tosh , Agriculture and Agrofood, Canada – <i>Cholesterol-lowering effects of consuming $\geq 3g$ per day of oat β-glucan: a meta-analysis of randomized controlled trials and its implications for industry, regulators and science.</i>
12:45 – 13:00	Daniel Gallaher , University of Minnesota, USA – <i>Effect of a α-Cyclodextrin on the Reduction Intestinal Fat Absorption.</i>

13:00 – 14:30 Lunch buffet, exhibition and poster viewing

SESSION 3:	DIETARY FIBRE IN FOOD AND NEW INGREDIENTS
14:30 – 16:00	SESSION 3a: DIETARY FIBRE IN FOOD
Chairs:	Jan Delcour , KU Leuven, Belgium Hamit Köksel , University of Ankara, Turkey
14:30 – 15:00	Marta Izydorczyk , Grain Research Laboratory, Canadian Grain Commission, Canada – <i>Delivering functional barley fibre constituents: from plant breeding to grain processing.</i>
15:00 – 15:15	Pieter Jacobs , KU Leuven, Belgium – <i>Study on hydration properties of wheat bran using bran samples with different particle size.</i>
15:15 – 15:30	Nesli Sozer , VTT, Finland – <i>Bioprocessing of bran improves the technological, structural and textual properties of high fibre extrudates.</i>
15:30 – 15:45	Cindy Villemejeane , AgroParistech, France – <i>Tailored formulation of biscuits enriched in fibres.</i>
15:45 – 16:00	Anne Rieder , Nofima, Norway – <i>Minimizing molecular weight reduction of β-glucan during barley bread production.</i>

16:00 – 16:30 Coffee break, exhibition and poster viewing

16:30 – 18:30	SESSION 3b: NEW DIETARY FIBRE SOURCES AND DIETARY FIBRE PROPERTIES
Chairs:	Luc Saulnier , INRA, France Charles Brennan , Lincoln University, New Zealand
16:30 – 16:45	Henk Schols , University of Wageningen, Netherlands – <i>Dietary fibre polysaccharides in the digestive tract: physical properties and health implications. Understanding the contribution of dietary fibres to a healthy colon.</i>
16:45 – 17:00	Weili Li , University of Manchester, UK – <i>A potential immune-stimulating health benefit of cereal arabinoxylan for foods.</i>
17:00 – 17:15	Yujie Wang , University of Helsinki, Finland – <i>Degradation of barley β-D-(1\rightarrow3), (1\rightarrow4)-glucan in the presence of lipid oxidation.</i>
17:15 – 17:30	Komal Chauhan , NIFTEM, India – <i>Therapeutic potential of rice bran oil to prevent and alleviate hyperlipidemia and diabete in streptozotocin-induced diabetic rats.</i>
17:30 – 17:45	Sandra Perez-Quirce , University of Valladolid, Spain – <i>Impact of oat β-glucan molecular weight on viscoelastic behavior of gluten-free rice-based doughs.</i>
17:45 – 18:00	Stefano D'Amico , BOKU University of Natural Resources and Life Sciences, Austria – <i>Optimization of pentosan extraction from rye bran for application in gluten-free breads.</i>



18:00 – 18:15	Masaharu Seguchi , Kobe University, Japan – <i>Effects of size of cellulose granules on dough rheology, microscopy, and bread-making properties.</i>
18:15 – 18:30	Caroline Mellinger Silva , Embrapa, Brazil – <i>Solid-liquid extractions and in vitro antioxidant activity of soluble fibres from wine grape pomace.</i>
19:30 – 24:00	GALA DINNER AT CAFÉ BARGE (with separate registration only)

Wednesday, 3rd June 2015

08:30 – 10:30	SESSION 4: CLASSIFICATION AND ANALYSIS
Chairs:	Meinolf Lindhauer , Germany Angela Zuleta , University of Buenos Aires, Argentina
08:30 – 09:00	Fred Brouns , University of Maastricht, Netherlands – <i>Molecular composition of dietary fibre determines its functionality, physiological effects and health outcomes.</i>
09:00 – 09:15	Mike Gidley , University of Queensland, Australia – <i>Dietary fibre polysaccharides in the digestive tract: physical properties and health implications.</i>
09:15 – 09:30	Paul Wehling , Medallion Laboratories, USA – <i>The relationship between physiology and dietary fibre measurement methodology.</i>
09:30 – 09:45	Barry McCleary , Megazyme, Ireland – <i>Analysis of fibre content of cereal and food.</i>
09:45 – 10:00	Judith Schäfer , Karlsruhe Institute of Technology, Germany – <i>Characterization of post-harvest modifications of dietary fibre structures of plant-based foods.</i>
10:00 – 10:15	Joran Verspreet , KU Leuven, Belgium – <i>Wheat Grain Fructan analysis reveals a complex branched structure.</i>
10:15 – 10:30	Gabrielle Potocki-Veronese , INRA, France – <i>Functional metagenomics reveals novel pathways of carbohydrate foraging by human gut bacteria.</i>
10:30 – 11:00	Coffee break, exhibition and poster viewing

11:00 – 12:30	SESSION 5: INCREASING FIBRE INTAKE: CHALLENGES AND BENEFITS
Chairs:	Louise Dye , University of Leeds, UK Kati Katina , University of Helsinki, Finland
11:00 – 11:15	Julie Miller Jones , College of St. Catherine, USA – <i>Why fibre intake remains static.</i>
11:15 – 11:30	Jan Willem van der Kamp , TNO, Netherlands – <i>The HealthBread concept – consumer acceptance of high fibre clean label bread products.</i>
11:30 – 11:45	Clare Lawton , School of Psychology, University of Leeds, UK – <i>Meeting recommendations for dietary fibre intake within a 12-week healthy eating intervention improves body weight and eating behaviour in overweight women with greater improvement in subjective well-being and body image than healthy eating alone.</i>
11:45 – 12:00	Talitha Best , University of Queensland, Australia – <i>Polysaccharides and brain health – a role for non-starch polysaccharides in neurocognitive function?</i>
12:00 – 12:15	Yanni Papanikolaou , Nutrition Impact and Nutritional Strategies, Canada – <i>Consumption of certain grain food patterns is associated with improved nutrient intakes and diet quality in US children and adults.</i>



12:15 – 12:30	Kathryn O’Sullivan , Nutrition Consultance, UK – <i>Healthcare cost savings of reduced constipation rates attributed to increased dietary fibre intakes in the UK, Ireland and Spain: a decision-analytic model.</i>
12:30 – 12:45	AWARD CEREMONY
12:45 – 14:15	Lunch buffet, exhibition and poster viewing
14:15 – 15:30	ROUND TABLE: Dietary fibre - state of the art and future perspectives - views from research, consumers, industry and government
Chairs:	Jan Willem van der Kamp , TNO, Netherlands
15:30 – 16:00	Coffee break
16:00 – 18:00	SESSION FRANÇAISE: CONCLUSIONS ET PERSPECTIVES DU CONGRÈS DF15 (in French)
Chairs:	Monique Axelos , INRA, France Joël Abecassis , INRA, France
18:00	END OF 6th INTERNATIONAL DIETARY FIBRE CONFERENCE

Sponsored by:

