

SEA-PHN Network meeting 1st June 2014

Kuala Lumpur, Malaysia



Vice President Regulatory Affairs & Nutrition Communication



BENEO's ingredients



Matching today's expectations.

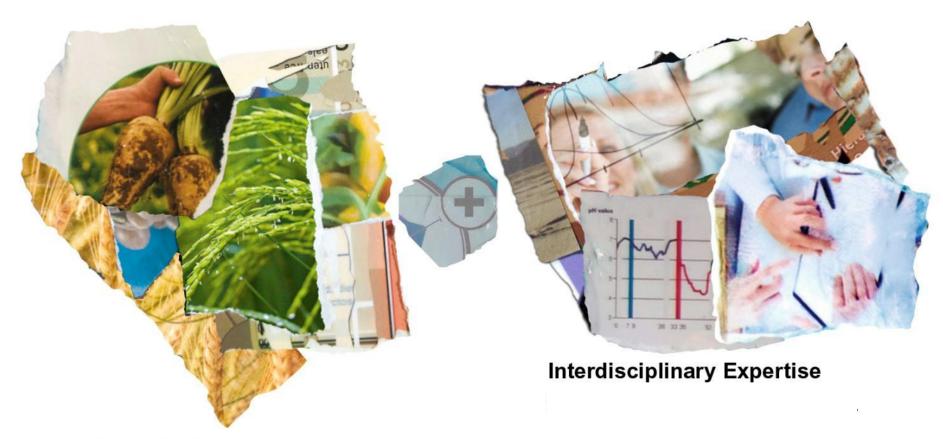


What do consumers expect from nutrition today?



Providing answers for today's nutrition.





Smart ingredients from natural sources.





Together, we contribute to better nutrition and health.

Caring for better nutrition worldwide.





Formed in 2007



900 employees



Active in more than 75 countries



6 offices (Belgium, Brazil, Germany, Singapore, Spain, USA)



5 production sites (in Belgium, Germany, Italy and Chile)



Member of the Südzucker Group

Discovering our range of nutrients and benefits. bene



Products

Prebiotic fibres e.g. Inulin, Oligofructose, Synergy1

Chicory root

Functional carbohydrates e.g. Palatinose™, Isomalt

Texturising ingredients e.g. Rice starches, Rice flour

Natural sources



Sugar beet



Rice, wheat



Benefits

- Digestive health
- Fibre enrichment
- Better calcium absorption
- Weight management
- Fat & sugar replacement

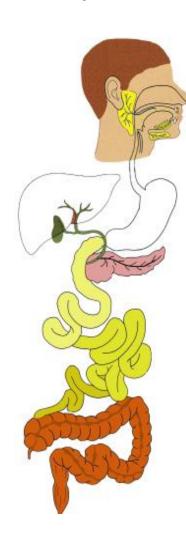
- Low glycaemic effect
- Prolonged energy
- Toothfriendly
- Weight management
- Sugar replacement

- Clean label
- Creaminess, crispiness
- Enhanced viscosity
- Tasty dairy substitution

Physiological Properties of Inulin-Type Fructans

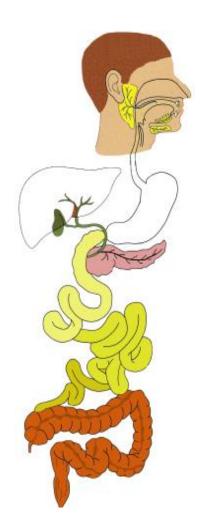


	Type of key studies	<u>Demonstrated Physiological Properties</u>
Mouth		Not fermented
Small Intestine		Not digested
	Glycemic response Insulin response	When replacing sugars/available carbohydrates → reduced glycemic response. Reduced insulin response
Large Intestine	prebiotic	Selective growth of in particular bifidobacteria
	Fully fermentable	Short chain fatty acid increase, pH ↓
	Bowel function	Improved bowel motor function, frequency
	Mineral	Increased calcium absorption & bone mineral density
	Gastrointestinal Tolerance	subjective perception of the increased gut activity might be noticeable at high intakes, but generally not disturbing
Metabolism	Weight management	energy intake ↓ Weight loss, influence on satiety, fat mass
	Inner resistance	Incidence of illnesses ↓
	Attenuation of glycaemia /insulinaemia – long term	Glycosylated haemoglobin and fructosamin, insulin resistance (HOMA)etc
	Calorie Reduction	When replacing starch, sugar or fat, reduces calories



Physiological Properties of Palatinose™

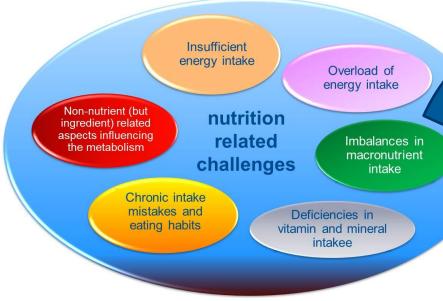




		connecting nutrition and health
	Type of key studies	<u>Demonstrated Physiological Properties</u>
Mouth	pH-Telemetry	Does not promote dental caries
Small Intestine)	
- Hydrolysis	Enzyme kinetics (in vitro)	Slow hydrolysis into glucose + fructose (4-5 times slower than sucrose)
- Absorption	lleostomy-study	Virtually complete hydrolysis and absorption within the small intestine
	Blood glucose response	Slow increase, low glycaemic response Glucose (energy) delivery over a prolonged period of time
	Insulin response	Low insulin response
	Glycemic Index (GI)	GI= 32
	Incretins (gastrointestinal hormones)	GIP ↓; GLP-1 ↑
Large Intestine	Gastrointestinal Tolerance	No distress even at high levels (e.g.120g in a sports study).
Metabolism	Respiratory Quotient	Promotes fat burning
	Body Composition	Loss of body fat and body weight/ Prevention of weight gain

Nutrition & Health are strongly related!





Small mistakes in what we eat on a daily basis will lead to major health problems later in life!



All population groups are important!



 The older people get, the more obvious nutrition mistakes become

The scene is often already set in the first years of life

 Influences and changes in the right direction are useful throughout life!











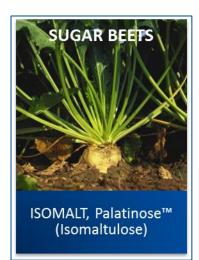
young adults & middle age

BENEO ingredients and their contribution to a better and healthy nutrition









Slow & complete promote dental hydrolysis and absorption

Does not

caries

Low glycemic response and low insulin response

Prolonged energy supply Supports fat burning

Gastrointestinal tolerance as good as sugar!



BENEO committment: connecting nutrition and health

The BENEO Institute



BENEO's Mission





connecting nutrition and health



The BENEO-Institute – a network of minds





Foundation of the BENEO-Institute in 2009





Topics of the Bl....



The BENEO-Institute focuses on topics that are important to our customers. This enables us to provide knowledge that is relevant to successfully develop food and beverages for tomorrows consumers.

Weight management

Digestive

health

Bone health

Sports nutrition



Infant & small children nutrition

Low glycemic concept

Dental health

Dietary fibers

Available
Carbohydrates
and their
metabolism

BENEO - sharing knowledge and driving debate



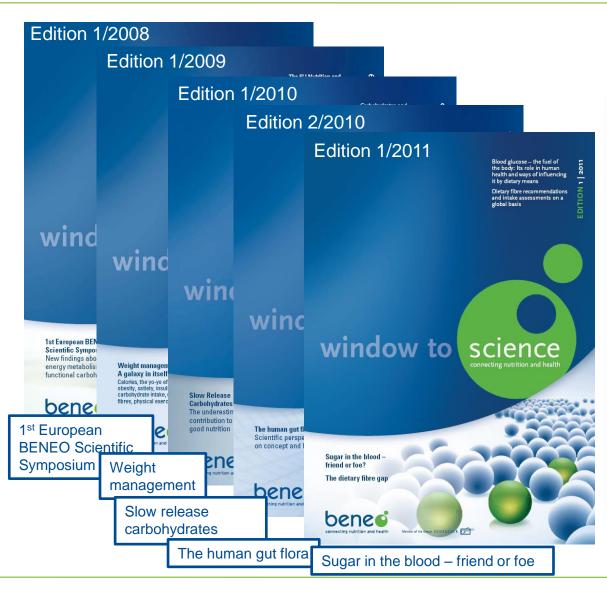
- BENEO Scientific Research Symposia
- Peer-reviewed scientific publications
- Claims & ingredient approval dossiers
- Active memberships in industry associations

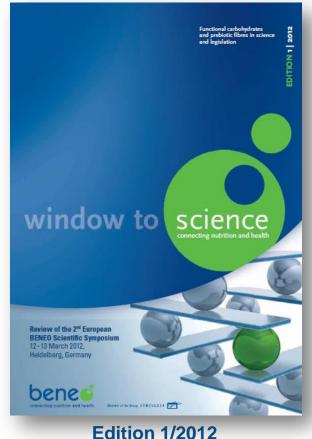
Edition of the scientific journal "Window to Science"



Window to Science







2nd European BENEO

Scientific Symposium



Scientific Symposia and speeches Focus Asia Pacific



Beneo Symposia & Speeches: 2014









BENEO Sponsored Symposium

"Weight management and the role of carbohydrates" Tuesday, 18th March, 17.30-19.00h

Dr. Stephan Theis

(BENEO-Institute; Obrigheim / Pfalz, Germany)

Physiological diversity of carbohydrates

Prof. Jeyakumar Henry

(Singapore Institute for Clinical Sciences, Singapore)

Recent advances on the role of low glycaemic carbohydrates in weight management

Prof. Nathalie Delzenne

(Université Catholique de Louvain, Brussels, Belgium)

Interaction of prebiotic inulin-type fructans with the gut microbiota – from mechanism to human nutrition

2011 - Beneo Symposia and Speeches





2011: "Claims & Regulatory Status of Carbohydrates"



Southeast Asia Region

ILSI SEA Region Symposium Series
Carbohydrates, Whole-grains and Dietary Fibre

April 2011

2012 - Beneo Symposia and Speeches





Nutrition Society of Malaysia

27 Scientific Conference

2012:

"The Role of Functional Carbohydrates in Weight Management & a Healthy Lifestyle"

The FINEST Food Symposium and Exhibition is a collaborative effort between the Health Promotion Board (HPB), Agency for Science, Technology and Research (A*STAR), SPRING Singapore and the Singapore Food Manufacturers' Association (SFMA).









2012: "Food Matrix – Nutrient Interaction: Inulin-Type Fructans and mineral bioavailability"

2013 - Beneo Symposia and Speeches





Singapore: March 2013

"Functional Food and Ingredients – Scientific Updates and Claims Related to Aging"

by Prof. Jeya Henry

Organizer

Co-organizer

Collaborator







Conference on Non-Communicable Diseases:

The Role of Diet and Physical Activity in Combating NCDs





Malaysia: March 2013

"Fighting the Burden of NCD – Eat smart from early on – Prevent!"

2013 - Beneo Symposia and Speeches



"Promoting Better Nutrition For All"





28th Scientific Conference, Malaysia, May 2013:

"Better Nutrition from Early On – A Smart Ingredient Choice is Key!"

2013 - Beneo Symposia and Speeches



Nutrition Research Seminar, 06.12.2013, Singapore: Anke Sentko:

"The Quality of Carbohydrates – How Digestibility Steers Metabolism!"





Clinical Nutrition Research Centre Singapore

NUTRITION RESEARCH SEMINAR

Jointly organised by Clinical Nutrition Research Centre, SICS & BENEO Asia Pacific Pte. Ltd

Speaker: Anke Sentko

Anke Sentko graduated with a diploma in Nutrition and Economy from University of Bonn, Germany in 1982. Between 1982 and 1990, she worked at SÜDZUCKER responsible for research & development and food legislation. Subsequently, Anke became the Regulatory Affairs Manager at Palatinit GmbH, Germany responsible for approval processes of food ingredients, claims and pharmaceutical excipients. When BENEO-Group was established in 2007, Anke was appointed as the Vice President in Regulatory Affairs and Nutrition Communication with global responsibility. The BENEO-Institute was founded in 2009, combining nutrition science, communication and legislation. Anke is a frequent member of the German Delegation of the Codex Committee on Food Additives and Contaminants, Member of the German Food Law Association (BLL), Member of the German Nutrition Society (DGE), member of the board of the Calorie Control Council (USA) and active in a number of Associations and Societies in Europe and overseas.



The Quality of Carbohydrates - How Digestibility Steers Metabolism

Abstract:

With the silver tsunami ahead, obesity and diabetes become worldwide burdens. The conventional approach that "simple" carbohydrates are bad and "complex" carbohydrates are good is no longer physiologically accurate. It is time to develop a broader view and make changes to our understanding of carbohydrate metabolism. Physiology starts in the gut: Is it hydrolysed and absorbed? How quickly? To what extent? Availability due to small intestine absorption? All these have an influence on the blood glucose and the insulin profiles, the two major drivers of the metabolism. They also influence the energy metabolism significantly. This presentation will highlight some of the new insights into carbohydrate physiology and metabolism.

Please RSVP by 29th November 2013 Lunch will be provided following the talk

Date: 6th December 2013

Time: 12:00 – 1:00p.m.

Venue: Symposium Rooms 2 & 3, Block MD11, 10 Medical Drive,

Yong Loo Lin School of Medicine, NUS Singapore 117597

Host: Professor Jeva Henry,

Director of Clinical Nutrition Research Centre (CNRC), SICS, A*STAR



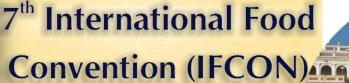




2013 - Beneo Symposia and Speeches









7th International Food Convention (IFCON), 18.-21.12.2013 Mysore, India:

Anke Sentko

"Functional Carbohydrates in a Lower Glycaemic Diet and in Weight Management - A smart ingredient choice makes the difference!"











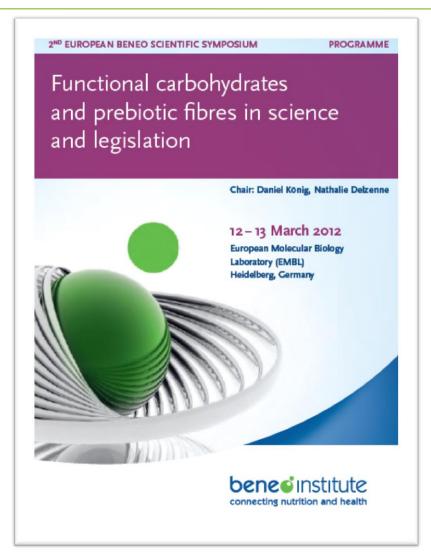
..... And other regions



Europe

2012 - 2nd Beneo Scientific Symposium





EMBL Heidelberg (European Molecular Biology Laboratory)





2013: IUNS 20th International Congress of Nutrition, Granada, Spain









Two interesting symposia with highly respected international speakers!



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BENEO Sponsored Symposium SPS 3-24 "Weight management and the role of carbohydrates"

Wednesday, 18 September, 5 – 7 pm, Room D

Chaired by Jeyakumar Henry

- Dr. Stephan Theis
 (BENEO-Institute; Obrigheim / Pfalz, Germany)
 Physiological diversity of carbohydrates
- Prof. Jeyakumar Henry
 (Singapore Institute for Clinical Sciences, Singapore)

 Recent advances on the role of low glycaemic carbohydrates in weight management
- Prof. Bob Rastall
 (University of Reading, Reading, UK)
 Obesity, microbiota and the effect of inulin type fructans
- Prof. Dr. Raylene Reimer
 (University of Calgary, Calgary, Canada)

 Prebiotic fibres and weight management

Parallel Symposium PS 4-54

"Functional roles of prebiotic
inulin-type fructans"
Thursday, 19 September, 11:30am-1:30pm, Room C

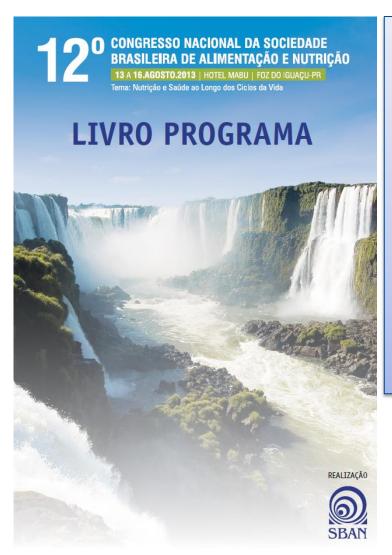
Chaired by Nathalie Delzenne & Olga Martinez

- Prof. Bob Rastall (University of Reading, Reading, UK) Prebiotic modulation of the human gut microbiota: Is it a health benefit?
- Prof. Nathalie Delzenne
 (Université Catholique de Louvain, Brussels, Belgium)
 Gut microbiota impact on metabolic disorders
 associated with obesity
- Prof. Dr. Ricardo Closa-Monasterolo
 (Hospital Universitari Joan XXIII, Tarragona, Spain)

 Prebiotics in infant nutrition
- Prof. Dr. Raylene Reimer
 (University of Calgary, Calgary, Canada)
 Role of prebiotics in regulating energy intake and body weight

12th National Congress of Nutrition, 13th-16th Aug.2013 Iguacu, Brazil





ILSI session on Pre- & Probiotcs

Prof. R.A. Rastall,

University of Reading (BENEO sponsored):

"The Underestimated Influence of the Gut Microbiota throughout Life: Health Support from Prebiotics"

BENEO-Institute Satellite Symposium:

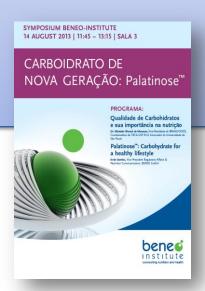
Anke Sentko, BENEO GmbH

V.P. Regulatory Affairs & Nutrition Communication:

"Palatinose: Carbohydrate for a Healthy Lifetyle"

Dr. Elisbete Wenzel de Menezes, Prof. Associado da Universidade de Sao Paolo:

"Qualidade de Carbohidratos e sua importancia na nutricao"





BENEO's views and expectations of being an assiciate member for future activities of the SEA PHB Network



BENEO's expectations



- Knowledge sharing & education of health care professionals (HCP)
- Being a valuable and reliable source of information to the network
- A platform to exchange knowledge, discuss and develop



BENEO's expectations



- Support consumer awareness that
 - what you eat matters ...and
 - smart choices may make a difference!

 Working together with local HCPs, the local food manufacturers and national authorities to support health and good nutrition for a prevention oriented lifestyle



Thank you for your attention.

www.beneo.com contact@beneo.com

