

Porto, 9-11th April 2024

Sheraton Hotel & spa

PROGRAM

Tuesday, 9th April 2024

13:00	Registration Open
14:00 - 14:20	Opening session
Day 1 Part 1	Oral processing and sensory properties of foods Chairs: Isabel Ferreira and Didier Dupont
14:20 - 15:00	Invited Speaker Anwesha Sarkar, UK, "3D tongue-like surface: A quantitative tribology tool to probe oral processing"
15:00 - 15:50	Oral communication Topic 1
15:00 - 15:10	C1 Influence of addition of alginate hydrogels on oral processing behaviour and sensory perception of different food matrices Speaker: Alvaro R. Garcia-Fuentes
15:10 - 15:20	C2 Mechanisms behind fat related perception in plant-based burgers varying in fat type. Speaker: Marine Devezeaux De Lavergne
15:20 - 15:30	C3 The influence of oral processing behaviour on nutrients digestion. Speaker: Markus Stieger
15:30 - 15:40	C4 Quantitative ultrasound to explore tactile perceptions of food elicited by tongue-palate friction: a biomimetic approach. Speaker: Vincent Mathieu
15:40 - 15:50	Panel Discussion
15:50 - 16:30	Coffee Break + Posters Session 1 (Topic 1 + Topic 4 + Topic 2 (partial))
Day 1 Part 2	Food structures, digestion and imaging technologies Chairs: Susana Casal and Frédéric Carrière
16:30 - 17:45	Oral communication Topic 4
16:30 - 16:40	C5 Fibre , regardless of its structure, increases PYY release Speaker: Aygul Dagbasi
16:40 - 16:50	C6 Intragastric behavior of an experimental infant formula may better mimic human milk than a control formula Speaker: Paul Smeets
16:50 - 17:00	C7 Quantifying intestinal lipolysis with Magnetic Resonance Imaging using fresh cream Speaker: Ruoxuan Deng
17:00 - 17:10	C8 Impact of the microstructure of two beef co-products on postprandial plasma amino acid kinetics Speaker: Rozenn Le Foll
17:10 - 17:20	C9 Controlling white rice glycaemic index by structuring with gellan gum: MRI study in vivo Speaker: Luca Marciani
17:20 - 17:30	C10 Scattering techniques to study the nanostructure and digestion mechanism of novel foods Speaker: Marta Martínez-Sanz
17:30 - 17:45	Panel Discussion
17:45 - 18:25	Invited Speaker Harjinder Singh, New Zealand "Gastric structuring of food materials to optimise nutrient absorption: challenges and opportunities"
18:25 - 18:30	Introduce INFOGEST BR - Latin American Branch
19:00 - 20:00	Welcome reception at Sheraton Hotel



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Wednesday, 10th April 2024

Day 2 Part 1	Bioaccessibility/absorption of beneficial and harmful compounds Chairs: Isidra Recio and Miguel Faria
08:30 - 09:50	Oral communication Topic 2
08:30 - 08:40	C11 Quantifying the impact of gut microbial metabolism on the bioavailability and pharmacokinetics of stevioside Speaker: James Chun Yip Chan
08:40 - 08:50	C12 Assessing the impact of in vitro gastrointestinal digestion on the bioaccessibility and bioactivity of polyphenols-rich extracts from citrus by-products Speaker: Ana A. Vilas-Boas
08:50 - 09:00	C13 Effects of enzymatic hydrolysis, the Maillard reaction and in vitro gastro-intestinal digestion on antioxidant properties of feather keratin Speaker: Antoni Taraszkiewicz
09:00 - 09:10	C14 Gastrointestinal lipid handling of an infant formula with large phospholipid coated lipid droplets is different from standard infant formula and closer to human milk Speaker: Gabriel G. M. Thomassen
09:10 - 09:20	C15 Bioaccessibility of Rice Mycotoxins: A Comparative in vitro Study of Adult and Elderly Digestion Speaker: Carolina Sousa Monteiro
09:20 - 09:30	C16 Release of bioactive compounds from microcapsules during in vitro digestion Speaker: Trinidad Perez-Palacios
09:30 - 09:50	Panel Discussion
09:50 - 10:30	Invited Speaker Manuela Pintado, Portugal "In vitro food digestion as tool for assessing bioactivity and bioaccessibility"
10:30 - 11:10	Coffee Break + Posters session 2 (Topic 2)
Day 2 Part 1 (continuation)	Bioaccessibility/absorption of beneficial and harmful compounds Chairs: Beatriz Miralles and Pasquale Ferranti
11:10 - 12:30	Oral communication Topic 2
11:10 - 11:20	C17 Digestion-released egg peptides induce GLP-1 secretion and modulate post-prandial glycemia Speaker: Santiaga María Vivanco-Maroto
11:20 - 11:30	C18 In vitro gastrointestinal release kinetics of various amino acids encapsulated in solid lipid particles Speaker: Sebastien Marze
11:30 - 11:40	C19 The potential health benefits of betalain pigments – evidence from in vitro and in vivo studies Speaker: Christine Bosch
11:40 - 11:50	C20 Assessment of the protein quality and digestibility in plant-based meat analogues Speaker: Tullia Tedeschi
11:50 - 12:00	C21 Vitamin bioaccessibility of foods fermented with riboflavin-overproducing bifidobacteria Speaker: Patricia Ruas-Madiedo
12:00 - 12:10	C22 Microbial Enzymes Enhance Macronutrient Digestibility in a Dynamic Digestion Simulation Speaker: Sean Garvey
12:10 - 12:30	Panel Discussion
12:30 - 14:00	Lunch time (poster session change)





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Day 2 Part 2	In vitro, in vivo and in silico models of digestion and absorption Chairs: Joana Costa and André Brodkorb
14:00 - 15:20	Oral communication Topic 3
14:00 - 14:10	C23 Amylase activity assay evaluation and optimization: an INFOGEST international ring trial Speaker: Daniela Freitas
14:10 - 14:20	C24 The in vitro dynamic digestion: a suitable model to mimic the in vivo digestion of infant foods in terms of food deconstruction and protein hydrolysis Speaker: Amelie Deglaire
14:20 - 14:30	C25 MiGut - a scalable triple-stage gut model system Speaker: William Davis Birch
14:30 - 14:40	C26 Getting the biliary surfactants right for physiological relevance of in vitro digestion Speaker: Adam Macierzanka
14:40 - 14:50	C27 Pioneering In Vitro Models of the Immature Gut Barrier for Advancing Infant Formula Speaker: Francesca Bietto
14:50 - 15:00	C28 Evidence of increased gluten-induced perturbations in the nucleophilic tone and detoxifying defences of intestinal epithelial cells impaired by gastric disfunction Speaker: Sara Da Silva
15:00 - 15:20	Panel Discussion
15:20 - 16:00	Invited Speaker John Van Camp, Belgium "In vitro bioavailability and impact of food-derived amyloid-like protein fibrils on health-related markers"
16:00 - 16:40	Coffee Break + Posters session 3 (Topic 3)
Day 2 Part 2 continuation	In vitro, in vivo and in silico models of digestion and absorption Chairs: Isabel Mafra and Alfonso Clemente
16:40 - 18:00	Oral communication Topic 3
16:40 - 16:50	C29 Development of in silico prediction model for true ileal protein digestibility Speaker: Takuya Kikuchi
16:50 - 17:00	C30 Assessing Rat Intestine Extract for Polyphenol Deglycosylation in Apple Tissue vialNFOGEST Speaker: Pablo Gallego Lobillo
17:00 - 17:10	C31 An INFOGEST international consensus static in vitro digestion model adapted to the general older adult population and its application to dairy products Speaker: Anaïs Lavoisier
17:10 - 17:20	C32 Gastric digestion of skimmed milk using a NEar Real Digestive Tract (NERDT) Speaker: Jiajun Feng
17:20 - 17:30	C33 International standardization process of the in vitro digestibility method based on the static INFOGEST method Speaker: Lotti Egger
17:30 - 17:40	C34 In Silico Exploration of Gastric Chemo-Fluid Dynamics: A Focus on Protein Hydrolysis Speaker: Nadun Palmada
17:40 - 18:00	Panel Discussion
18:30 19:00	Buses leave Hotel for Cultural Dinner venue
20:00	Cultural Dinner



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Thursday, 11th April 2024

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Day 3 Part 1	Impact of diet on gut microbiota Chairs: Linda Giblin and Sara Cunha	
09:00 - 10:05	Oral communication Topic 5	
09:00 - 09:10	C35 Protein ingredient quality of infant formulas impacts gut physiology and microbiota in mini-piglets used as a human infant model Speaker: Amélie Deglaire	
09:10 - 09:20	C36 Modulatory effects on gut microbiota of simulated gastrointestinal digests from microalgae Speaker: Samuel Paterson	
09:20 - 09:30	C37 Brazilian Propolis Microencapsulation: Effects on biological activities and gut modulation Speaker: Ana Sofia Saliba	
09:30 - 09:40	C38 Unravelling the full therapeutical potential of polyunsaturated fatty acids: a complete study of omega-3 and conjugated fatty acids bioaccessibility, bioavailability prediction and impact in gut microbiota. Speaker: Ana Sofia Salsinha	
09:40 - 09:50	C39 Particle size of barley husk influences phenolic acid release, as well as microbiota succession and short chain fatty acid production in vitro Speaker: Sofia Ntouranidi	
09:50 - 10:05	Panel Discussion	
10:05 - 10:45	Invited Speaker Andrea Gianotti, Italy "Role of food formulation and processing on the gut microbiome mediated health and diseases: how in vitro approaches can explain causalities and mechanisms"	
10:45 - 11:30	Coffee Break + Posters session 4 (Topic 5)	
Day 3 Part 1 continuation	Impact of diet on gut microbiota Chairs: Isabel Ferreira and Miguel Faria	
11:30 - 12:20	Oral communication Topic 5	
11:30 - 11:40	C40 Tryptophan catabolism by gut microbiota is modulated by the food matrix and the diet Speaker: Edoardo Capuano	
11:40 - 11:50	C41 Implications of Polyphenol Binding on the Prebiotic Effect of Plant Cell Walls and Resulting Catabolites Speaker: Julia Doris Bechtner	
11:50 - 12:00	C42 Effect of pesticide use and sprouting inhibitor on potato crops on gut microbiota and hepatic gene expression in mice Speaker: Sandy Theysgeur	
12:00 - 12:10	C43 Can Phlorotannins Navigate the Gastrointestinal Tract? Unraveling Gut Microbiota Modulation and Structural Transformations Speaker: Marcelo Catarino	
12:10 - 12:20	Panel Discussion	
12:20 - 12:40	INFOGEST Update: Didier Dupont	
12:40 - 13:00	Awards and closing session	
13:00 - 15:00	Lunch time	
	WG meetings	
45.05	WG1 - In vitro models of digestion - Conference Room	
15:00 - 16:30	WG5 - Digestive Amylases and Starch Digestion - Room 1	
	WG7 - Imaging - Room 2 WG2 - Food Interaction Meal Digestion - Room 1	
16:30 - 18:00	WG3 - Absorption Models - Conference Room	
	WG4 - Digestive Lipases and Lipid Digestion - Room 2	