



## Tuesday, 11th October 2022

	Tuesday, 11th October 2022
12:00- 13:40	Conference welcome and Session 1 Rene Floris, Fred van de Velde
	12:10-12:35 [KN01]         Optimising flavour and mouthfeel aspects of plant protein ingredients and plant-based foods <u>Els de Hoog</u> NIZO food research, Ede, The Netherlands         12:35-12:40 Q&A
	12:40-12:55 [O01] Improving lubrication and functional properties of native plant proteins by microgelation for optimal sensory and fat-replacement food applications Ben Kew, Evan Liamas, Melvin Holmes, Anwesha Sarkar University of Leeds, Leeds, UK 12:55-13:00 Q&A
	13:00-13:15 [O02] Fermentation for texture and flavor development in plant-based cheese <u>Carmen Masiá<sup>1,2</sup></u> , Poul Erik Jensen <sup>1</sup> , Saeed Rahimi Yazdi <sup>3</sup> <sup>1</sup> University of Copenhagen, Copenhagen, Denmark. <sup>2</sup> Chr. Hansen A/S, Hørsholm, Denmark. <sup>3</sup> Chr Hansen A/S, Hørsholm, Denmark. 13:15-13:20 Q&A
	13:20-13:35 [003] Influence of multifunctional strains of lactic acid bacteria on the techno-functional, microbiological, and sensory properties of a lentil-based yoghurt alternative <u>Theresa Boeck<sup>1</sup></u> , Lilit Ispiryan <sup>1</sup> , Andrea Hoehnel <sup>1</sup> , Niamh Ahern <sup>1</sup> , Francisco C. Almeida <sup>1</sup> , Alice Jaeger <sup>1</sup> , Aylin W. Sahin <sup>1</sup> , Emanuele Zannini <sup>1</sup> , Elke K. Arendt <sup>1,2</sup> <sup>1</sup> School of Food and Nutritional Sciences, University College Cork, Cork, Ireland. <sup>2</sup> APC Microbiome Ireland, University College Cork, Cork, Ireland
	-school of Food and Nutritional Sciences, University College Cork, Cork, IrelandAPC Microbiome Ireland, University College Cork, Cork, Ireland 13:35-13:40 Q&A
13:40- 14:10	Refreshment break
14:10- 14:50	Young Scientist Programme Rene Floris, Emma Teuling
	14:10-14:15 [YSP.01] Development of plant-based fermentation media for the production of a vegan <i>L. plantarum</i> starter culture Jannis Bulla <sup>1</sup> , Jonas Teichmann <sup>2</sup> , Doris Jaros <sup>2</sup> , Harald Rohm <sup>2</sup> <sup>1</sup> Institute of Natural Materials Technology, Chair of Food Engineering, TU Dresden, Dresden, Germany. <sup>2</sup> Institute of Natural Materials Technology, Chair of Food Engineering, Dresden, Germany
	14:15-14:20 [YSP.02]         Assessment of chemical modifications on the reduction of the allergenic potential of legume and new plant-based proteins: the effectiveness of the enzymatic hydrolysis for allergy reduction         Luisa Calcinai <sup>1</sup> , MariaGiulia Bonomini <sup>1</sup> , Ilaria Puxeddu <sup>2</sup> , Stefano Sforza <sup>1</sup> , Tullia Tedeschi <sup>1</sup> <sup>1</sup> Department of Food and Drug, University of Parma, Parma, Italy. <sup>2</sup> Immuno-allergology Unit, Clinical and Experimental Medicine, University of Pisa, Pisa, Italy
	14:20-14:25 [YSP.03] Dispersion of zein into pea protein for cohesiveness and viscoelasticity in plant-based food analogues <u>Oguz Kaan Ozturk</u> <sup>1</sup> , Andres Munoz Salgado <sup>2</sup> , Osvaldo Campanella <sup>2</sup> , Bruce Hamaker <sup>1</sup> <sup>1</sup> Purdue University, West Lafayette, USA. <sup>2</sup> Ohio State University, Columbus, USA
	14:25-14:30 [YSP.04] Interactions between proteins, phytic acid and calcium in Fava Bean ingredients <u>Tiffany Amat<sup>1</sup></u> , Rémi Saurel <sup>1</sup> , Ali Assifaoui <sup>1</sup> , Christophe Schmitt <sup>2</sup> <sup>1</sup> Institut Agro, Dijon, France. <sup>2</sup> Nestlé, Lausanne, Switzerland
	14:30-14:35 [YSP.05] Potential of redcurrant protein as an emulsifier in oil-water-emulsions Larissa Vivienne Sankowski, Luise Hennig, Stephan Drusch, Monika Brückner-Gühmann Technische Universität Berlin, Berlin, Germany
	<ul> <li>14:35-14:40 [YSP.06]</li> <li>Dry fractionation of legumes: Effect of relative humidity and oil content</li> <li><u>R.G.A. Politiek<sup>1,2</sup></u>, J.K. Keppler<sup>1</sup>, M.E. Bruins<sup>2</sup>, M.A.I. Schutyser<sup>1</sup></li> <li><sup>1</sup>Wageningen University &amp; Research, Wageningen, The Netherlands. <sup>2</sup>Wageningen Food &amp; Biobased Research, Wageningen, The Netherlands</li> </ul>

14:50- 16:00	Session 2 Rene Floris, Emma Teuling
	14:50-15:15 [KN02] Plant protein-derived enzymatic digests as bioactive agents for the prevention and treatment of human chronic diseases Rotimi Aluko University of Manitoba, Winnipeg, Canada 15:15-15:20 Q&A
	15:20-15:35 [O04] Plant protein fibre blends for targeted nutrition of older adults – Optimization of amino acid compositions, <i>in-vitro</i> digestibility and sensory profiles <u>Susanne Naumann-Gola</u> Fraunhofer Institute for Process Engineering and Packaging IVV, Freising, Germany 15:35-15:40 Q&A
	15:40-15:55 [O05] Effect of enzymatic hydrolysis on the stability of UHT treated faba bean protein emulsion <u>Malik Adil Nawaz</u> <sup>1</sup> , Roman Buckow <sup>2</sup> , Hema Jegasothy <sup>1</sup> , Regine Stockmann <sup>1</sup> <sup>1</sup> CSIRO, Melbourne, Australia. <sup>2</sup> The University of Sydney, Sydney, Australia 15:55-16:00 Q&A
16:00- 16:45	Academic Publishing Workshop with Morgane Dagot, Publisher - Food Science
	Wednesday, 12th October 2022
12:00- 13:30	Session 3 Rene Floris, Renske Janssen
	12:00-12:25 [KN03] Chemical reactions affecting application of plant proteins Jean-Paul Vincken Wageningen University, Wageningen, The Netherlands 12:25-12:30 Q&A
	12:30-12:45 [006]         Biopurification – microbial conversions to improve the quality of plant proteins         Herwig Bachmann <sup>1,2</sup> , Avis Nugroho <sup>2</sup> , Saskia van Schalkwijk <sup>1</sup> , Ann Stijnman <sup>1</sup> , Wilma Wesselink <sup>1</sup> , Simon Jacobs <sup>1</sup> , Hernando Suarez <sup>1</sup> , Emma Teuling <sup>1,3</sup> , Kerensa Broersen <sup>1</sup> <sup>1</sup> NIZO, Ede, The Netherlands. <sup>2</sup> VU University, Amsterdam, The Netherlands. <sup>3</sup> HAS University of Applied Sciences, 's-Hertogenbosch, The Netherlands         12:45-12:50 Q&A
	12:50-13:05 [007] Wholistic biorefinery of different pea varieties as alternative protein source <u>Busra Gultekin Subasi</u> <sup>1</sup> , Diana Bengtsson <sup>2</sup> , Bita Forghani <sup>1</sup> , Mehdi Abdollahi <sup>1</sup> <sup>1</sup> Chalmers University of Technology, Gothenburg, Sweden. <sup>2</sup> Lantmännen Lantbruk, Svalov, Sweden 13:05-13:10 Q&A
	13:10-13:25 [O08] New approaches to improving techno-functionality of plant protein food ingredients <u>Rewati Bhattarai</u> <sup>1</sup> , Stuart Johnson <sup>1,2</sup> <sup>1</sup> Curtin University, Perth, Australia. <sup>2</sup> Ingredients by Design Pty Ltd, Lesmurdie, Australia 13:25-13:30 Q&A
13:30- 14:00	Refreshment break
14:00- 15:30	Session 4 Renske Janssen, Fred van de Velde
	14:00-14:25 [KN04]         Gelling and structuring of protein melts in extruder cooling dies: Models and observations         Michael Beyrer         University of Applied Sciences of Western Switzerland, Sion, Switzerland         14:25-14:30 Q&A
	14:30-14:45 [O09]         Enzymatic modification of plant protein concentrates for increased fibrillation during high-moisture extrusion processing         Pinja Pöri, Anni Nisov, Kaisu Honkapää, Nesli Sozer         VTT Technical Research Centre of Finland, Espoo, Finland         14:45-14:50 Q&A
	14:50-15:05 [O10] Morphometric properties in 3d of textured proteins: influence of ingredient-process interactions, its implications on product functionality and application performance <u>Marjorie Welchoff</u> Ingredion Incorporated, Bridgewater, NJ, USA

	15:05-15:10 Q&A
	15:10-15:25 [O11] Rheological properties and extrudability of hemp protein ingredients as influenced by the extraction method Luca Amagliani <sup>1</sup> , Benedetta Fanesi <sup>2</sup> , Guilherme de Oliveira Reis <sup>1</sup> , Claudine Bovay <sup>1</sup> , Christophe Schmitt <sup>1</sup> <sup>1</sup> Nestlé Research, Lausanne, Switzerland. <sup>2</sup> Università Politecnica delle Marche, Ancona, Italy 15:25-15:30 Q&A
15:30- 16:00	Refreshment break
16:00- 17:00	Poster session 1
	Wednesday, 13th October 2022
12:00- 13:00	Poster session 2
13:00- 14:30	Session 5 Emma Teuling, Fred van de Velde
	13:00-13:25 [KN05] The role of proteolysis on the structure and functionality of plant proteins Juliana Leite Nobrega de Moura Bell University of California at Davis, Davis, USA 13:25-13:30 Q&A
	<ul> <li>13:30-13:45 [012]</li> <li>A systematic study on the impact of the isoelectric precipitation process on the physical properties and protein composition of soy protein isolates <u>Diete Verfaillie<sup>1,2</sup></u>, Frederik Janssen<sup>2</sup>, Geert Van Royen<sup>1</sup>, Arno Wouters<sup>2</sup></li> <li><sup>1</sup>Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Melle, Belgium. <sup>2</sup>KU Leuven, Leuven, Belgium</li> <li>13:45-13:50 Q&amp;A</li> </ul>
	<ul> <li>13:50-14:05 [O13]</li> <li>Ultrasound-assisted extraction of protein from potato trimmings and the impact thereof on protein structure and functionality</li> <li>Ben Van den Wouwer<sup>1,2,3</sup>, Kristof Brijs<sup>2,3</sup>, Katleen Raes<sup>1</sup></li> <li><sup>1</sup>Ghent University, Ghent, Belgium. <sup>2</sup>KU Leuven, Leuven, Belgium. <sup>3</sup>Leuven Food Science and Nutrition Research Centre (LFoRCe), Leuven, Belgium.</li> <li>14:05-14:10 Q&amp;A</li> </ul>
	<ul> <li>14:10-14:25 [014]</li> <li>Texturing fermented emulsion gels from soy protein: how droplet-stabilization affect the gel's microstructure, rheology and tribology</li> <li><u>Gabriela Saavedra Isusi</u><sup>1,2</sup>, Domenica Paz Puga<sup>2</sup>, Ulrike S. van der Schaaf<sup>2</sup></li> <li><sup>1</sup>Thermo Fischer Scientific, Karlsruhe, Germany. <sup>2</sup>Karlsruhe Institute of Technology, Karlsruhe, Germany</li> <li>14:25-14:30 Q&amp;A</li> </ul>
14:30- 15:00	Refreshment break
15:00- 16:50	Young Scientist Award Ceremony, Session 5 (continued) & Conference close Rene Floris, Fred van de Velde
	15:15-15:30 [O15] Impact of pea storage protein fractions and their ratio on functionality and nutritional quality Holly Husband, B. Pam Ismail University of Minnesota, St. Paul, USA 15:30-15:35 Q&A
	15:35-15:50 [O16] Plant protein-based foods - known plant sources but new microbiological risks? Alina Kyrylenko, Robyn Eijlander, <u>Marjon Wells-bennik</u> <i>NIZO, Ede, The Netherlands</i> 15:50-15:55 Q&A
	15:55-16:10 [017] Sustainable meat alternatives: Probing interactions of potato protein and fungal hyphae composites <u>Mary Okeudo<sup>1</sup></u> , Brent Murray <sup>1</sup> , Simon Connell <sup>1</sup> , Rammile Ettelaie <sup>1</sup> , Stewart Radford <sup>2</sup> , Anwesha Sarkar <sup>1</sup> <sup>1</sup> University of Leeds, Leeds, UK. <sup>2</sup> Marlow Foods, Stokesley, UK 16:10-16:15 Q&A
	16:15-16:40 [KN06] Vegan protein sources: trends and developments in new protein sources <u>Fred van de Velde<sup>1</sup></u> , Renske Janssen <sup>1,2</sup> , Emma Teuling <sup>1,2</sup> <sup>1</sup> NIZO, Ede, The Netherlands. <sup>2</sup> HAS University of Applied Sciences, 's-Hertogenbosch, The Netherlands 16:40-16:45 Q&A