EFFOST2020 Online Programme

| Tuesday, 10 th November 2020 |
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| 10:00-10:30 CET Welcome and Opening |
| - Welcome by Prof. Olga Martin Belloso, EFFoST President |
| - Opening of EFFoST 2020 by Assoc. Prof. Uri Lesmes, EFFoST 2020 Conference Chair |
| - Tips on how to navigate the online platform to get the most of your registration |
| 10:30-11:45 CET Plenary Session 1: Food science, technology and health in the 21st century |
| 10:30-10:50 CET [PL01] Ultra-processed foods and obesity: A view from the natural world |
| David Raubenheimer, University of Sydney, Australia |
| 10:50-11:10 CET [PL02] Understanding consumers as a trigger for food innovation |
| Indrawati Oey, University of Otago, New Zealand |
| 11:10-11:30 CET [PL03] Research & innovation in support of the EU's farm-to-fork strategy |
| Wim Haentjens, DG Research & Innovation, Bioeconomy & Food Systems Division, European Commission |
| 11:30-11:45 CET Panel discussion with Prof. David Raubenhiemer, Prof. Indrawati Oey, Wim Haentjensd and Uri Lesmes with questions from the audience |
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| 12:00-13:30 CET Plenary Session 2: Agri-Food innovations and entrepreneurship |
| 12:00-12:20 CET [PL04] Smart and more sustainable food value chains for science-driven innovations in the food sector |
| Alexander Mathys, ETH-Zurich, Switzerland |
| 2:20-12:40 CET [PL05] Artificial Intelligence in food innovation. Put the problem first! Christoph Hartmann, Nestle, Switzerland |
| 12:40-13:00 CET [PL06] Nanomaterials for detection and mitigation of microorganisms |
| Esther Segal, Technion, Israel |
| 13:00-13:30 CET Creative sparks: Promising startups: |
| 13:00-13:10 - Start up 1 - Ilan Samish, Amai Proteins Ltd, Israel |
| 13:10-13:20 - Start up 2 - Eschar Ben Shitrit, Redifine Meat, Israel |
| 13:20-13:30 - Start up 3 - Sharon Barak, Solutum, Israel |
| 13:30-14:30 CET Lunch Break |
| 14:30-15:00 CET Pub Quiz |
| 15:00-16:10 CET Plenary Session 3: Feeding the world today and tomorrow |
| 5:00-15:25 CET [PL07] Utility of the INFOGEST in vitro digestion method in the design and development of next-generation functional foods |
| Julian D McClements, University of Massachusetts – Amherst, USA |
| 5:25-15:50 CET [PL08] Enzymatic glycerolysis converts vegetable oils into structural fats with the potential to replace palm oil in food products |
| Alejandro Marangoni, University of Guelph, Canada |
| 15:50-16:10 CET [PL09] The future of sustainable protein production: Opportunities in alternative proteins |
| Liz Specht, Good Food Institute, USA |

| 16:10-16:20 CET | Break |
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| 16:20-17:00 CET | Awards and Closure |
| | - EFFoST Student of the Year Awards |
| | - Highlights and summary of EFFoST2020 by Assoc. Prof. Uri Lesmes |
| | - Announcing the host of the 35th EFFoST International Conference 2021 |
| | - Closing of EFFoST2020 conference by Prof Olga Martin Belloso and Assoc. Prof. Uri Lesmes |
| | - Wrap-up of event |

| | | We | dnesday, 11 th November | 2020 | | |
|-----------------|---|--|--|--|---|--|
| | Session 1: Optimizing foods for health and wellness Session Chair : Didier Dupont | Session 2: Innovations in food processing and related technologies Session Chair : Avi Shpigelman | Session 3: Smart and sustainable packaging and coatings Session Chair : Esther Segal | Session 4: Shaping food properties & novel ingredients Session Chair : Maria Semenova | Special Session: Valorisation of side streams Session Chair : Jeroen Knol | |
| 09:00-09:20 CET | [KN 001.1] The molecular link between red meat and cancer is dietary Neu5Gc carbohydrate and serum antibodies against it Salam Bashir ¹ , Leopold K. Fezeu ^{2,3} , Shani Leviatan Ben-Arye ¹ , Sharon Yehuda ¹ , Eliran Moshe Reuven ¹ , Fabien Szabo de Edelenyi ² , Imen Fellah- Hebia ⁴ , Thierry Le Tourneau ⁴ , Berthe Marie Imbert-Marcille ⁵ , Emmanuel B. Drouet ⁶ , Mathilde Touvier ² , Jean- Christian Roussel ⁴ , Hai Yu ⁷ , Xi Chen ⁷ , Serge Hercberg ² , Emanuele Cozzi ⁸ , Jean-Paul Soulillou ⁵ , Pilar Galan ² , Vered Padler-Karavani ¹ ¹ Tel Aviv University, Israel. ² Cité Epidemiology and Statistics Research Center (CRESS), France. ³ Nutritional Epidemiology Research Team (EREN), France. ⁴ Institut du Thorax, France. ⁵ Universitaire de Nantes, France. ⁶ University Grenoble Alpes, France. ⁷ University of California- | [KN O02.1] Future Protein Foods – An Australian Perspective Roman Bouckow University of Sydney, Australia | [KN 003.1] Development of novel peptide-based food preservations Zvika Hayouka The Hebrew University of Jerusalem, Israel | [KN 004.1] Food architecture: From nano- to meso scale Maya Davidovich-Pintas Technion, Israel | 09:00-09:30 INGREEN – Finding new | |

| Davis, USA. 8Padua University Hospital, Italy | | | | | |
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| reality in grains and bread Kathrin Gruber ¹ , Katrin Bach ^{*2} ¹ Management Center Innsbruck - The Entrepreneurial School, Austria, ² Manage ment Center Innsbruck - | Zuzana Sediva ¹ , Vincent Meunier ² , Erich Windhab ¹ ¹ Swiss Federal Institute of Technology Zürich (ETH), Switzerland. ² Nestlé | for designing active packaging | Transglutaminase- mediated improvement of chickpea protein- based emulsions and gels Jovana Glusac ¹ , Ayelet | 09:30-10:00 Valorisation of side stream materials from fisheries and aquaculture – bioactivity and sensory properties Dr. Tone Aspevik, Nofima, Norway | |
| calcium in yogurt based snacks Jing Wang, Kataneh Aalaei, Leif Skibsted, Lilia | [O02.3] Extraction of pea protein – a comparison of methods Caren Tanger, Ulrich Kulozik Technical University Munich, Germany | [O03.3] Active | [O04.3] Relation between polymer transitions and the temperature-dependent extensional viscosity of dough systems during thermal stabilization accessed by lubricated squeezing flow Thekla Alpers, Thomas Becker, Mario Jekle Technical University of Munich, Germany | | |
| products and their | [O02.4] Effect of plasma activated water (PAW) on rocket leaves decontamination Giorgia Gozzi , Silvia Tappi , Romolo Laurita , Beatrice Cellini , Vittorio Colombo , Pietro Rocculi , Marco Dalla Rosa , Lucia Vannini | and vegetables Victor Rodov, Ron Porat, Bettina Kochanek, Yakov | [O04.4] Influence of ultrasound during the kneading process on rye bread's dough rheology and product | | |

| | | University of Bologna, Italy | | Gatternig, Antonio Delgado Friedrich-Alexander- University Erlangen- Nuremberg, Germany | DIL German Institute of Food Technologies e.V., Germany | |
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| 10:20-10:30 CET | Questions and wrap-up | Questions and wrap-up | Questions and wrap-up | Questions and wrap-up | | |
| 10:30-11:00 CET | Break: Poster sessions and | one-on-one meetings | | | | |
| | Session 5: Engineering food digestibility Session Chair : Uri Lesmes | sources and innovative products | Session Chair : Francesco | Session 8: Microbes in the food sector Session Chair : Jean- Philippe Obert | Safeconsume – | Special Session: EIT Food - Alternative proteins Session Chair : Mercedes Groba |
| CET | foods to improve the delivery of bioactives and nutrients Didier Dupont INRAE, France | [O06.1] Shaping food future with structured meat-like alternatives Elisabeth Högg, Lisa Franke Technische Universität Berlin, Germany | Predicting and monitoring taste in health and disease Masha Niv The Hebrew University, Israel | [KN 008.1] Mastering biodiversity to enable microbial solutions for better, safer and tastier food: the science behind starter culture development Jean-Philippe Obert DuPont (Danisco), France | of the project - Solveig Langsrud, Nofima, Norway | EIT Food: Europe's leading food innovation initiative, working to make the food system more sustainable, healthy and trusted - Mercedes Groba, EIT Food, UK |
| | [O05.2] A new perspective on inhibition of a-amylase by flavonoids: Time matters Adrian S. D'Costa, Nicolas Bordenave University of Ottawa, Canada | property relationships for novel texture tailoring of plant protein-based meat | optimising the health potential of fruit-based products through a systematic data mining of literature Anthony Fardet ^{1,2} , Céline Richonnet ³ , André Mazur ^{1,2} ¹ INRAE, France. ² University of Clermont Auvergne, France ³ MOM, France | [O08.2] Bioactive cow antibodies as a substitute for antibiotics: Process development and innovative applications Hans-Jürgen Heidebrecht ¹ , Michael Pfaffl ¹ , Beatrix Förster ² , Ulrich Kulozik ¹ ¹ Technical University of Munich, Germany. ² University Medical Center, The Netherlands | perceptions and practices affecting food safety - Silje Elisabeth Skuland, Oslo Metropolitan University, Norway | Mineral concentrations of organic and conventional milk in UK dairy herds - Nanbing Qi, University of Reading, UK |

| | [O05.3] Chew on it: influence of oral processing behaviour on in vitro protein digestion of chicken and soy-based vegetarian chicken Yao Chen, Edoardo Capuano, Markus Stieger Wageningen University & Research, The Netherlands | skeletal muscle tissue for cell-based meat Shulamit Levenberg 1,2, Tom Ben-Arye ^{1,3,} Yulia Shandalov ¹ , Shahar Ben- | combinatorial approaches and robotics technology for innovations in fermentation and fermented food products Jerome Diaz ¹ , Carsten | [O08.3] Impacts of food microstructure on antimicrobial efficacy and performance Li Wang, Matthijs Dekker, Jenneke Heising, Vincenzo Fogliano Wageningen University, The Netherlands | Using design thinking for safer food - Antje Gonera, Nofima, Norway | Our nutritious protein - Stella Lignou and Nur Liana Binti Sulaiman, University of Reading, UK |
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| | [O05.4] Comparison of oral tribology and surface adsorption of plant and dairy proteins Evangelos Liamas, Morfo Zembyla, Efren Andablo- Reyes, Kewei Gu, Emma Krop, Ben Kew, Anwesha Sarkar University of Leeds, UK | [O06.4] Utilization of high- pressure homogenization of potato protein isolate for the production of dairy-free yogurt-like fermented product Rachel Levy, Zoya Okun, Avi Shpigelman Technion, Israel | cell disruption processes for the efficient production of food ingredients from phototrophic microalgae Christopher McHardy, Justus Knappert, Cornelia Rauh Technische Universität Berlin, Germany | [O08.4] Effect of Lactobacillus sakei and Pediococcus acidilactici bioprotective cultures on microbiological quality of Turkish fermented sausages Mahide Muge Yilmaz ¹ , Ayla Soyer ² ¹ University of Reading, UK ² Ankara University, Turkey | Project Assistant for e- | Valorization of rapeseed press cake towards protein ingredients: Outcome of EIT-Food PROVE and VALOCAKE projects - Nesli Sözer, VTT Technical Research Centre, Finland |
| 12:20-12:30 CET | Questions and wrap-up | Questions and wrap-up | Questions and wrap-up | Questions and wrap-up | - | Application of fungi protein in the development of sustainable and healthy food products - Esther Sanmartin, AZTI |

| | | | | | National Food Chain Safety Office, Hungary | |
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| 12:30-13:30 CET | | | | | | |
| (| of foods Session Chair : Dolores | and smart resource utilization Session Chair : Jovana Glusac | Session 11: Omics in food research Session Chair : Masha Niv | Session 12: Fundamental and mechanistic food research Session Chair : Alexander Mathys | Special Session: IUFOST - What can Food Science do to Mitigate Obesity? Session Chair : Mercedes Groba | Food - Targeted |
| | vitamin D from degradation and improve vitamin D bioaccessibility Steven L. Mulrooney ¹ , Graham J. O'Neill ² , Dolores O'Riordan ¹ ¹ University College Dublin, Ireland. ² Technological University Dublin, Ireland | from bacteria using continuous pulsed electric field treatment Felix Schottroff ¹ , Jens Kastenhofer ² , Oliver Spadiuz ² , Henry Jaeger ¹ , | contribution to design foods optimized for health: | pressure on the kinetics of epigallocatechin-3- gallate degradation: lessons on the impact of pressure on polyphenols degradation Hani Shkolnikov, Valeria | 13.35 - 13.40 - Chair/Moderator: | Low Energy Electron Beam (LEEB) to inactivate viruses and microorganisms on heat sensitive raw materials without affecting quality (Buhler, DILL, VTT, Nestle) - Heidi Kotilainen, Buhler, UK |
| | emulsion interface influences the lipolysis kinetics under in vitro gastric conditions Marcos Ricardo Infantes Garcia, Sarah Verkempinck, Paloma Gonzales Fuentes, Tara Grauwet KU Leuven, Belgium | recycling of food waste and co-products to recover bioactive compounds and phytochemicals Enrico Doria, Cinzia Calvio, Maurizia Dossena, Antonio Marra, Erlinda Rama, Elena De Toffoli, Manuela Verri, Laura Cattaneo, Camilla | [O11.2] Determination of bacterial communities of four Greek feta cheeses using 16S rRNA genome sequencing Athina Tzora , Eleftherios Bonos , Konstantina Fotou , Achilleas Karamoutsios , Eleonora Barka , Evaggelia Gouva , Ioannis Skoufos University of Ioannina, Greece | [O12.2] Elucidating carrageenan digestive fate: How carrageenan– protein interactions may affect digestive proteolysis in different target populations Shlomit David, Maayan Ben-David, Maya Magram Klaiman, Avi Shpigelman, Uri Lesmes Technion, Israel | | SuReBar: Integrating innovative sugar and fibre technologies to produce sugar reduced cereal bars - Julia Rodriguez Garcia, University of Reading, UK |

| | [O09.3] Innovative breakfast kit promotes satiety in rats by reducing food intake Sara Carmo-Silva, Daniela Costa, Cláudia Almeida, Cláudia Cavadas University of Coimbra, Portugal | [O10.3] Impact of house cricket flour addition on rheology of rice flour gels Joanna Harasym, Agnieszka Orkusz Wrocław University of Economics and Business, Poland | [O11.3] Transcriptomic responses in rat intestinal tissues after ENs exposure Alessandra Cimbalo, Manuel Lozano, Guillermina Font, Manuel Alonso-Garrido, Lara Manyes University of Valencia, Spain | [O12.3] The fate of small molecules during food processing and digestion - the Radiokitchen approach Mark Buecking ^{1,2} ,Bernd Goeckener ¹ ¹ Fraunhofer IME, Germany. ² Monash University, Australia | 14.15–14.35 Anti-obesity of food phytochemicals and beyond Yen-Chen Tung, Department of Nutrition, China Medical University, Taichung City, Taiwan 14.35–14.40 Q&A | Oncofood-new innovative solutions for cancer patients - Stella Lignou, University of Reading, UK |
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| | Bolhuis ¹ , Krassimir Velikov ² , Markus Stieger ¹ ¹ Wageningen University, | [O10.4] Mycoprotein as novel functional ingredient: Mapping of functionality, composition and structure throughout the Quorn fermentation process Julien Lonchamp ¹ , Kelly Stewart ² , Claire Munialo ² , Laurence Evans ² , Muyiwa Akintoye ³ , Paul S. Clegg ⁴ , Nik Willoughby ² , Stephen R. Euston ² ¹ Queen Margaret University, UK. ² Heriot-Watt University, UK. ³ Quorn Foods, UK. ⁴ University of Edinburgh, UK | safety assessment of novel foods by the European Food Safety Authority (EFSA) Ermolaos Ververis ^{1,2} , Reinhard Ackerl ¹ , Domenico Azzollini ¹ , Paolo Angelo Colombo ¹ , Agnès de Sesmaisons ¹ , Céline Dumas ¹ , Antonio Fernandez-Dumont ¹ , Lucien Ferreira da Costa ¹ , | discovery Fabrizio Fierro ¹ , Lior Peri ¹ , Tamir Dingjan ² , Masha Niv ¹ ¹ The Hebrew University | 14.40 – 15.00 Etiology of Obesity: A Genetically Induced Metabolic Survival Defense Due to Unhealthy Food Habits: Aerobic vs. Anaerobic Events Debasis Bagchi^{1,2}, Bernard W. Downs¹, VNI Inc., USA, ²Texas Southern University, USA 15.00-15.10 Q&A | |
| 14:50-15:00 CET | Questions and wrap-up | Questions and wrap-up | Questions and wrap-up | Questions and wrap-up | | HealthSnap: the cocreation of a new vending concept that freshly prepares healthy snack products - Rachel Smith, University of Reading, UK |

| 15:00-15:30 CET | Break: Poster sessions and a | one-on-one meetings | | | | |
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| 15:30-17:00 Cet | Session 13: Foods for the ages Session Chair : Evangelos Liamas | Session 14: Processing and technology advancements Session Chair : Petros Taoukis | Session 15: Food safety and regulation Session Chair : Ermolaos Ververis | Session 16: Fundamental and mechanistic food research Session Chair : Victor Rodov | - Food System Transformation and the | Food - Side streams |
| 15:30-15:50 CET | [O13.1] Exploring the differences in texture perception of oral nutritional supplements between older and younger adults, using the temporal dominance of sensations technique Emma Regan ¹ , Emma L. Feeney ¹ , Scott C. Hutchings ² , Graham J. O'Neill ³ , Dolores O'Riordan ¹ ¹ University College Dublin, Ireland. ² University of Melbourne, Australia. ³ Technological University Dublin, Ireland | to digest Tara Grauwet KU Leuven, Belgium | [O15.1] Scientific and legislative issues surrounding the use of microbial food cultures within the EU context Jerome Diaz ¹ , Addie Van der Sluis ² , Masja Nierop Groot ¹ ¹ Wageningeng Food and Biobased Research, WUR, The Netherlands. ² Wageningen Food and Biobased Research, WUR, The Netherlands | [O16.1] How amylose molecular fine structure affects gel network formation and water-oil dynamics during the production of potato (Solanum tuberosum L.) crisps Stijn Reyniers, Nand Ooms, Kristof Brijs, Jan A. Delcour Catholic University of Leuven, Belgium | | Food Digital Marketplace for Side-streams - Tiffany Lau, University of Reading, UK |
| 15:50-16:10 CET | [O13.2] Marine hydrolysates from by products used for protein enriched fish products Jan Thomas Rosnes 1, Therese Netland Østebrød ² , Aase Vorre Skuland ¹ ¹ Nofima, Norway. ² Core, University of Stavanger, Norway | high pressure processing on polyphenol-cell wall material interactions and polyphenol-polyphenol association in model systems: Possible implication to accessibility Eden Eran Nagar, Liora | adhesively detaching soil layers in a channel flow with sudden expansion by CFD-simulation Hannes Köhler , Christian Golla , Jochen Fröhlich , | [O16.2] Iron mediated flavonoid pectin interaction: A possible novel mechanism for polyphenol cell wall material interactions: Effects of flavonoid structure, pH and temperature Libi Chirug, Eden Eran Nagar, Zoya Okun, Avi Shpigelman Technion, Israel | | Cook Clever, working with young adult consumers to create a technology solution to reduce food waste habits - Natalie Masento, University of Reading, UK |

| | consumer studies for developing a nostalgic new product for the elderly in Singapore Lena Ling, Lina Tan, Tong Qi Shandi Tan, Jia Yi Aw, | [O14.3] Pulsatile crossflow filtration – towards more sustainable membrane processing Maria Weinberger, Ulrich Kulozik Technical University Munich, Germany | University Dublin, Ireland. | encapsulated bioactive substance crocin on the stability of solid lipid nanoparticles during processing Verena Wiedenmann, Esther Mayer-Miebach, Diana Behsnilian, Elke Walz, Volker Gräf, Kathleen Oehlke Max Rubner-Institut, | | Food Education: Online courses: From farm to labels and beyond - Natalia Mansilla, University of Reading, UK |
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| | psychometric scale to measure consumers | processing strategies to affect protein properties and functionality of intermediate wheatgrass (Thinopyrum intermedium) Yaxi Dai ¹ , Radhika Bharati ² , George Annor ² , Catrin Tyl ¹ ¹ University of Georgia, USA. ² University of | beverages Tatiana Koutchma | [O16.4] The effect of rapeseed protein on polyphenols stability and antioxidant capacity Inbal Hanuka-Katz, Eden Eran-Nagar, Zoya Okun, Avi Shpigelman Technion, Israel | Emerging Food Processing Technologies for Leveraging Food System Sustainability Iris HABERKORN, Alexander MATHYS ETH Zurich, Zurich, Switzerland | Seaweed supplementation to mitigate methane (CH4) emissions by cattle (SeaCH4NGE) - Ásta Heiðrún E. Pétursdóttir, Matis, Iceland |
| 16:50-17:00 CET | Questions and wrap-up | Questions and wrap-up | Questions and wrap-up | Questions and wrap-up | Questions and wrap- up | Questions and wrap- up |

| 17:00-17:15 CET Short Break | |
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| 17:15-18:00 CET EFFoST Panel Discussion - | How to get published: A |
| "Does Green equal | discussion with Elsevier |
| Sustainable?" | journal editors and |
| This panel discussion is | publishers |
| organised by the EFFoST | |
| working group on | Alejandro Marangoni, |
| Sustainable Food that is | Editor-in-Chief of Current |
| chaired by Henry Jäger | Research in Food |
| and Felix Schottroff, from | Science & Current |
| the University of Natural | Opinion in Food Science |
| Resources and Life | |
| Sciences (BOKU), Vienna. | Sonia Calligaris, Editor- |
| For more information and | in-Chief of Food |
| to join the working | Structure |
| group <u>here</u> . | |
| | Petros Taoukis, Editor of |
| | Innovative Food |
| | Science and Emerging |
| | Technologies |

| | | Th | ursday, 12 th November 2 | 020 | | |
|---------------------------|--|--|--|---|--|--|
| 09:00-10:30 Cet | Session 17: 5D oral processing of foods Session Chair : Padler Caravani Vered | Session 18: Food innovations Session Chair : Cornelia Rauh | Session 19: Reinforcing food secutiry & sustainability Session Chair : Paola Pittia | Session 20: Tailoring protein digestion and functionality | Special Session: GHI session - Food security in the nearby future Session Chair : Abenaa Akyaa Okyere | |
| 09:00-09:20 CET | [KN 017.1] Oral tribology: A new frontier in food science Anwesha Sarkar University of Leeds, UK | [O18.1] Identification of very bitter compounds in food and drugs in the era of machine learning Eitan Margulis*, Masha Y. Niv, The Hebrew University of Jerusalem, Israel | [O19.1] Food System after covid-19: Efficiency vs resilience Serafim Bakalis ^{1,2} , Lilia Ahrne ³ , Dimitris Argyropoulos, Enda Cummins ⁴ , Jianghe Che ⁵ , Ashim Datta ⁶ , Peter Fryer, Estefania Lopez-Quiroga, Ourania Gouseti ² , Almudena Hospido ⁷ , Kai Knoerzer ⁸ , Alain LeBail ⁹ , Petros Taoukis ¹⁰ ¹ University of Nottingham, UK. ² University of Birmingham, UK. ³ University of Copenhagen, Denmark. ⁴ University College Dublin School of Biosystems and Food Engineering, Ireland. ⁵ Zhejiang Gongshang University, China. ⁶ Cornell University, USA. ⁷ University of Santiago de Compostela, Spain. ⁸ Agriculture and Food, CSIRO, Australia. ⁹ Oniris, Gepea UMR CNRS, France. ¹⁰ National Technical University of Athens, Greece | [O20.1] Overcoming gastric destabilization of pea protein microgel particle-stabilized Pickering emulsions using electrostatic coating with cellulose nanocrystals Shuning Zhang, Nuttaporn Suriyachay, Melvin Holmes, Rammile Ettelaie, Brent S. Murray, Anwesha Sarkar University of Leeds, UK | 09:00-09:30 | |

| carrageenan mixtures Kwan-Mo You, Brent S. Murray, Anwesha Sarkar University of Leeds, UK | [O18.2] Towards a fouling control during fruit juice microfiltration: Rheological identification of interactions between juice suspended particles in the fouling layer Camille Demoulin ¹ , Layal Dahdouh ¹ , Julien Ricci ¹ , Michèle Delalonde ² , Christelle Wisniewski ² ¹ CIRAD, UMR Qualisud, France. ² Qualisud Univ Montpellier, France | [O19.2] SAFELIVERY: Safer Food Delivery and distribution service during and after the COVID-19 Pandemic Marco Gerevini ¹ , Maria Chiara Leva ² , Lucia Vannini ³ , Micaela Demichela ⁴ , Orla Cahill ² ¹ Tecnoalimenti, Italy ² Technological University Dublin, Ireland. ³ University of Bologna, Italy. ⁴ Politecnico di Torino, Italy | nano-complexes and evaluation of their loading and controlled release under in vitro digestive conditions Alon Romano, Carolina Leiterer, Avi Shpigelman, Uri Lesmes Technion – Israel Institute | | |
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| bile salts, a key to their role in lipid digestion Olivia Pabois ^{1,2} , Richard Harvey ³ , Isabelle Grillo ² , Myriam Grundy ⁴ , Balazs Bajka ¹ , Peter Wilde ⁵ , Yuri | [O18.3] Influence of pH- value and ionic strength on the temperature- dependent microfiltration of milk proteins Simon Schiffer, Ulrich Kulozik Technical University of Munich, Germany | [O19.3] Sustainable food systems in Europe, potential contributions of food science and technology Hugo de Vries ^{1,2} , Mechthild Donner ^{1,3} , Monique Axelos ¹ ¹ INRAE, France. ² UMR IATE, France. ³ UMR MOISA, France | [O20.3] Pulsed electric field assisted extraction of proteins and fat from house crickets (Acheta domesticus): Effects on yield and technofunctional properties Marios Psarianos ¹ , George Dimopoulos ² , Sara Bußler ¹ , Ana Clara Cavini Moreno ^{1,3} , Petros Taoukis ² , Shikha Ojha ¹ , Oliver Schlüter ¹ ¹ Leibniz Institute for Agricultural Engineering and Bioeconomy (ATB), Germany. ² National Technical University of Athens (NTUA), Greece. ³ University of São Paulo (USP), Brazil | 10:00-10:30 Could edible insects processing enhance consumer health and food security? - Abenaa Akyaa Okyere, BNARI, Ghana Atomic Energy Commission, Ghana | |
| Dietary Fiber and Lipid digestibility: Impact of Bean processing | [O18.4] The impact of milder fractionation methods on the footprint of the food production system | [O19.4] Sustainability in the future farming sector: Environmental scenarios Ariane Voglhuber- Slavinsky , Ewa Dönitz , Björn Moller | [O20.4] Quinoa protein concentrate in fibril structure as potential functional ingredient in emulsion and gel systems | | |

| 10:20-10:30 CET | Tiantian Lin, Sean O'keefe, Susan Duncan, Cristina Fernandez-Fraguas Virginia Tech, USA Questions and wrap-up Break: Poster sessions and o | van der Padt, Remko Boom Wageningen UR, The Netherlands Questions and wrap-up | Fraunhofer Institute for Systems and Innovation Research ISI, Germany Questions and wrap-up | Ohad Hanan, Ofir Benjamin Tel Hai College, Israel Questions and wrap-up | | |
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| 11:00-12:30 Cet | Session 21: Tackling process-food-consumer intersections Session Chair : Anwesha Sarkar | Session 22: Smart packages and processes Session Chair : Julien Lonchamp | Session 23: Shaping food properties & novel ingredients Session Chair : Tara Grauwet | processing innovations Session Chair : Serafim Bakalis | Special Session: Food & Health Digitalisation Session Chair : Siân Astley | |
| | [KN O21.1] Consumer adapted food science and technology - an interdisciplinary challenge Cornelia Rauh Technical University of Berlin, Germany | [O22.1] Blockchain technology for improving resource efficiency and circularity in food supply chains Maitri Thakur, Magnus Stoud Myhre, Sepideh Jafarzadeh SINTEF Ocean, Norway | [KN 023.1] Sustained energy release food products: An opportunity grasped by fully implementing triple helix innovation approaches Jan A. Delcour, Kurt Gebruers, Elien Lemmens, Stijn Reyniers KU Leuven, Belgium | [O24.1] Harnessing nanosecond pulsed electric field processing for optimizing the efficiency of single-cell based value-chains Iris Haberkorn ¹ , Leandro Buchmann ² , Alexander Mathys ¹ ¹ ETH Zurich, Switzerland. ² Bühler AG, Switzerland | FNS-Cloud (www.fns- cloud.eu) Paul Finglas, Scientific Coordinator, QIB, UK | |
| | [O21.2] Exploring the role of structure and composition of raw material in mild fractionation processes Anna Cäcilie Möller ¹ , Albert van der Padt ^{1,2} , Atze Jan Van der Goot ¹ ¹ Wageningen Univeristy, The Netherlands. ² Friesland Campina, The Netherlands | [O22.2] Cold atmospheric plasma towards next- generation nanobiocomposites for active food packaging Nusrat Sharmin ¹ , Izumi Sone ¹ , Cecilia. Górriz Fernández ¹ , J. L. Walsh ² , Morten Sivertsvik ¹ , Estefania Noriega Fernández ¹ ¹ Nofima AS, Norway. ² University of Liverpool, UK | [O23.2] Oral tribology, adsorption and rheology of alternative food proteins Ben Kew, Melvin Holmes, Anwesha Sarkar University of Leeds, UK | [O24.2] Pulsed electric field assisted valorisation of microalgae Lars Leonhardt Technische Universität Dresden, Germany | SEAFOOD^{TOMORROW} (seafoodtomorrow.eu) António Marques, Coordinator IPMA, Portugal | |

| | /thermodynamic optimization of cooling tunnels to tailor quality characteristics of chocolate confectionery under largely improved sustainability conditions Lucas Grob, Erich Windhab Swiss Federal Institute of Technology Zürich (ETH), | bread? Bastien Maurice ^{1,2,3} , Anne Saint-Eve ^{1,2,3} , Emilie Ouvrard ^{1,2,3} , Aurélia Pernin ^{1,2,3} , Isabelle Souchon ^{1,2,3} 1AgroParisTech, France. | bioaccessibility of strawberry anthocyanins during storage Anna-Sophie Stübler ^{1,2} , Lena Böhmker ¹ , Andreas Juadjur ¹ , Cornelia Rauh ² , Avi Shpigelman ³ , Kemal Aganovic ¹ iDIL German Institute of Food Technologies e.V., | and functional properties of lupin kernel fibre Susanne Naumann ^{1,2} , Ute Schweiggert-Weisz ² , Peter Eisner ^{1,2} ¹ Technical University of Munich, Germany. ² Fraunhofer Institute for Process Engineering and Packaging (IVV), | AAL-TURNTABLE (www.aalturntable.eu) Antonio Solinas, R&D&I Director Abinsula, I) | |
|-----------------|--|---|---|--|--|-----|
| | sensory perception of layered hydrogels: Influence of particle size of soft beads Ecaterina Stribitcaia, Emma Krop, Melvin Holmes, Anwesha Sarkar | during storage Imke Korte ¹ , Claudia Waldhans ¹ , Maureen | [O23.4] Application of pulse flours in baked products: Link between formulation, reactivity | for the concentration of liquid foodstuffs Timo Claßen ¹ , Soebiakto Loekman ² , Alexander Rudolph ³ , Bernhard Gatternig ¹ , Christopher | 12:00-12:15 Quisper (quisper.eu) Jo Goossens, Director shiftN, Belgium 12:15-12:30 EIT Food PERSO (www.persfo.eu) Glenn Mathijssen, Co- Founder Alberts, Belgium | |
| 12:20-12:30 CET | Questions and wrap-up | Questions and wrap-up | Questions and wrap-up | Questions and wrap-up | | |
| 12:30-12:40 CET | Close of Conference Th | nank you for att | ending! We loc | ok forward to se | eeing you in 20 | 021 |

| | | Υου | ng EFFoST Day | 2020 | | |
|-----------------|--|---|--|--|--|--|
| 13:00-14:55 CET | Plenary Session chair: Eden Eran Nagar, Dafna Pascoviche, Alon Romano | | | | | |
| 13:00-13:05 CET | Welcome & introduction of Young EFFoST Day programme. 1. The future of food science and industry: The end of an era or a beginning of a new dawn? Dafna Pascoviche, Eden Eran Nagar, Alon Romano, Biotechnology & Food Engineering Technion, Israel | | | | | |
| 13:05-13:15 CET | Presentation of Young EFFoST and the YE council Felix Schottroff, University of Natural Resources and Life Sciences at Vienna, Austria | | | | | |
| 13:15-14:55 CET | Influential communication workshop Natalie Barnet Nagar, Virtuozo, Israel | | | | | |
| 15:05-16:05 CET | Interactive group sessions via zoom links Attendees will be divided to discussion groups, according to previously selected topics of interest. The discussions will be directed by professional moderators who will navigate the discussion according to thoughts and questions suggested by the participants themselves, to make the discussion as relevant and inspiring as possible. | | | | | |
| 15:05-16:05 CET | 1. The future of food science and industry: The end of an era or a beginning of a new dawn? Alejandro Marabi, PepsiCo., Israel | 2. From technology to start-up – guiding principles Memi Genosar, Startup Advisor, Israel | 3. COVID-19 impact on our daily lives and work: Turning life's lemons into lemonade Serafim Bakalis, University of Copenhagen, Denmark | difficulties and how to encourage them | 5. How to plan an academic career as a young researcher? Maya Davidovich Pinhas, Technion, Israel | 6. Are we doing enough (whether academia or industry) towards a "greener" more sustainable world? Anet Režek Jambrak University of Zagreb, Croatia |