





8th International Conference on

Food Chemistry & Technology

October 12-14, 2022



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Food Bioscience journal is presenting the awards to the best oral presenter and two best poster presenters to support and encourage the young researchers to build their confidence and dedication towards food bioscience

Best Oral Presenter -

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Certificate - The winners will receive a certificate issued by Elsevier.

ABOUT JOURNAL

Food Bioscience is a peer-reviewed journal that aims to provide a forum for recent developments in the field of bio-related food research. The journal focuses on both fundamental and applied research worldwide, with special attention to ethnic and cultural aspects of food bioresearch.

Topics covered in the journal include but are not limited to:

- 1. Biochemical, biophysical and biological properties of foods, ingredients, and components
- 2. Mechanism of functional foods and ingredients including both novel and traditional fermented foods
- 3. Genetic, and cellular and molecular biology germane to food production and processing
- 4. Foodomics: comprehensive studies involving genomics, proteomics, metabolomics, nutrigenomics and chemogenomics of foods and their interactions with humans
- 5. Biomaterials for food-related systems such as food packaging, food analysis, and delivery of nutraceuticals and functional food additives
- 6. Application of novel technology to foods.

For more details, please visit: https://www.sciencedirect.com/journal/food-bioscience

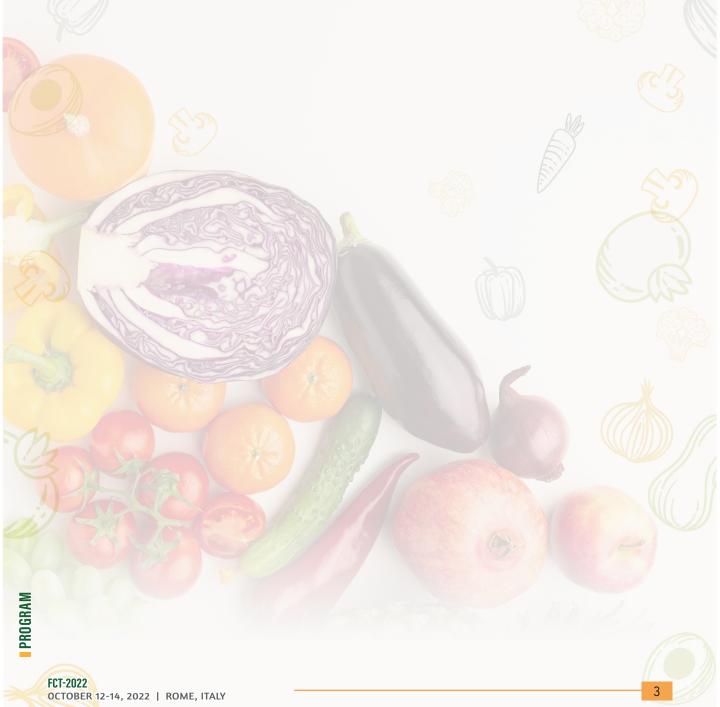
2021 IF: 5.318







	Parallel Session I - Room	Parallel Session II - Room
12-Oct	Boncompagni	Lounge
13-Oct	Boncompagni	Lounge
14-Oct	Lounge	Cervini



Time zone: Rome, Italy Local Time

PARALLEL SESSION I

@ Boncompagni

Meeting Link: Meeting ID: 876 2500 9325 https://us06web.zoom.us/j/87625009325?pwd=QWZrVUhNWHNReGI4ejF6dFR0bmdaUT09 **Passcode: 231974** 08:00 - 08:45Registration 08:45 - 09:00 Welcome and Inauguration Speech Introduction by: Antonio Derossi, University of Foggia, Italy **Session I – Food Chemistry** Chairs: Alireza Abbaspourrad, Cornell University, NY, United States Maria Buchweitz, University of Stuttgart, Germany 09:00 - 09:30Keynote Food Ingredients: Modification, Encapsulation and Controlled Release Alireza Abbaspourrad, Cornell University, NY, United States 09:30 - 09:55Mushrooms and Plants as a Source of Natural Ingredients for Food Application Lillian Barros, Polytechnic Institute of Bragança, Portugal - Virtual 09:55 - 10:15 Comparison of Different Extraction Methods of Vitamin K from Plant Samples by the UPLC-APCI-MS Method Iryna Bryshten, Maria Curie-Sklodowska University, Poland Adducts Formed between Rutin and Methylglyoxal in Foods and in-vivo, and 10:15 - 10:35 their Safety Concerns Jie Zheng, Jinan University, China - Virtual 10:35 - 10:55Why are some Apple Varieties Less Allergenic than Others? - Insights into Parameters which Might be Relevant Maria Buchweitz, University of Stuttgart, Germany 11:00 - 11:20 Coffee Break 11:20 - 11:40 Virgin Olive Oil-Derived Nitro-Fatty Acids: Relationship to Cultivar, Fruit Ripening, Polyphenol Content and Protection of Mitochondrial Function in Non-Alcoholic **Fatty Liver Disease** Homero Rubbo, The University of the Republic, Uruguay 11:40 - 12:00 Revalorization of Industrial Pineapple (Ananas comosus (L.) Merrill) by-products as Antioxidant Source: Optimization of Ultrasonic-Assisted Extraction of Phenolic Compounds Ana Beltran Sanahuja, University of Alicante, Spain - Virtual 12:00 - 12:20 Chemical Fingerprints of Pomegranate (Punica granatum L.) Seed Oil: Correlation of Bioactive Compounds with Origins Sonia Bonacci, University Magna Graecia of Catanzaro, Italy 12:20 - 12:40 Non-thermal and Thermal Treatments Impact the Structure and Microstructure of Milk Fat Globule Membrane

Fatma Ali, Tianjin University of Science and Technology, China - Virtual

Meeting Link:

PARALLEL SESSION II

Time zone: Rome, Italy Local Time

Meeting ID: 828 4942 3924

https://us06web.zoom.us/j/82849423924?pwd=N21lNjNWcnp3bFNuMWJZc0d0emVtQT09

@ Lounge

Passcode: 871593

	Session II – Food Customization and Health
	Chairs: Yanfeng Tuo, Dalian Polytechnic University, China Dorit Avni, MIGAL Galilee Research Institute, Israel
09:55 - 10:20	Invited Gluten-Friendly Bread Exerts a Bifidogenic Effect and a Modulating Action on Celiac Gut Microbiota: A Prebiotic-Like Effect or a New Mode of Action? Carmela Lamacchia, University of Foggia, Italy
10:20 - 10:40	Exopolysaccharide Produced by Lactiplantibacillus plantarum Y12 Inhibits the Biofilm Formation and Virulence Genes Expression of Shigella flexneri Yanfeng Tuo, Dalian Polytechnic University, China
10:40 - 11:00	Preheat-induced Soy Proteins with Enhanced Thermal Stability and their Application Chao Wu, Dalian Polytechnic University, China
11:00 – 11:20	Coffee Break
11:20 - 11:40	Mitigation of Acrylamide Formation in Biscuits through the Use of Alternative Ingredients: Effect of Legume Flour Types and Preparations Maria Alessia Schouten, University of Bologna, Italy
11:40 - 12:00	The Sustainable, Nutritious and Functional Power of Algae as the Future Functional Food Ingredients Dorit Avni, MIGAL Galilee Research Institute, Israel
12:00 - 12:20	The Role of Lipid Nanoparticles in the Development of Emulsion Formulations able to Carry/Deliver Multiple Actives Georgia Ioanna Sakellari, University of Birmingham, United Kingdom
12:20 - 12:40	The Effects of Water Characteristics on the Physicochemical and Sensorial Properties of Water Kefir Suzan Tireki, Ozyegin University, Turkey - Virtual
12.00 12.05	C DI:

Session I - Food Chemistry

Chairs: Concetta Condurso, University of Messina, Italy Remigiusz Olędzki, Wrocław University of Economics and Business, Poland

14:50 - 15:10 Recovery, Metabolic Characterization, and Reuse of Waste Materials from Olive Oil Production Chain: Olive Mill Wastewaters (OMWs) and Leaves

Maria Francesca Colella, University of Calabria, Italy

Group Photo

Lunch Break

13:00 – 13:05

13:05 - 14:00

15:10 - 15:30	Effects of Microwave Radiation on the Bioactive Properties of Peppers Remigiusz Olędzki, Wrocław University of Economics and Business, Poland
15:30 - 15:50	The Potential of Rosmarinus officinalis L. Extracts Obtained through Green Methodologies to Enhance Bread Organoleptic Properties Júlia C. Kessler, University of Porto, Portugal
15:50 - 16:10	In Depth LC-ESI/LTQOrbitrap/MS/MSn Guided Phytochemical Analysis of Fresh and Roasted Hazelnut (<i>Corylus avellana Cultivar "Nocciola Piemonte"</i>) Antonietta Cerulli, University of Salerno, Italy - Virtual
16:10 - 16:30	Coffee Break
16:55 - 17:15	Breeding of Faba Beans for Feed and Food Production Svend Secher Dam, Business Academy Aarhus, Denmark
17:15 - 17:35	Biogenic Amines and Other Unconventional Indexes as New Markers of Qualitative Decay in Packaged Chicken Meat Maria Martuscelli, University of Teramo, Italy
17:35 - 17:55	Brassinosteroids Control the Inflammation, Oxidative Stress and Cell Migration through the Control of Mitochondrial Function on Skin Regeneration Debora Esposito, North Carolina State University, United States
17:55 - 18:15	Effects of Tannins on Physicochemical and Sensory Properties of Stirred-Type Yogurt Negin Seif Zadeh, University of Turin, Italy
	15:30 - 15:50 15:50 - 16:10 16:10 - 16:30 16:55 - 17:15 17:15 - 17:35



Time zone: Rome, Italy Local Time

PARALLEL SESSION I

@ Boncompagni

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08:15 – 08:45 Registration

Session III – Sustainability in Food Production and Technolog	Session III	 Sustainabili 	ty in Food Prod	luction and	Techno	loav
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	Chairs: Paola Giavedoni, Director of Innovation, EIT Food, Belgium Maria G. Corradini, University of Guelph, Canada
08:45 - 09:15	Keynote Innovation with Impact for a Sustainable Food System Paola Giavedoni, Director of Innovation, EIT Food, Belgium
09:15 - 09:40	Invited Extending Shelf Life and Enhancing Safety through Food Design and Modeling Maria G. Corradini, University of Guelph, Canada
09:40 - 10:00	Valorisation of Waste from Fish and Tomato Processing, to Generate Biodegradable Food Packaging with Hydrophobic Properties Marta Mroczkowska, South East Technological University, Ireland
10:00 - 10:20	Mycoprotein as Novel Functional Ingredient: Mapping of Functionality, Composition and Structure Throughout the Quorn Fermentation Process Julien Lonchamp, Queen Margaret University, United Kingdom
10:20 - 10:40	Valorization of Aquaculture Waste Side Streams Nicole Cheam Mein Ji, Nanyang Technological University, Singapore
10:40 - 11:00	Development of a Colorimetric Indicator Based on Metal Nanoparticles for Monitoring Deterioration of Chicken and/or Fish Meat, with Potential Use in Smart Packaging Lissage Pierre, University of Santiago, Chile
11:00 – 11:20	Coffee Break
11:20 - 11:40	Sustainable Re-use of Brewer's Spent Grain for the Production of High Protein and

11.00 - 11.20	Collee Dieak
11:20 - 11:40	Sustainable Re-use of Brewer's Spent Grain for the Production of High Protein and
	Fibre Pasta
	Francesca Cuomo, University of Molise, Italy

11:40 - 12:00	Development of Films Based on Andean Potato Starch/Chitosan/Propolis as
	Promising Biopackaging Materials
	Ivone Iquiapaza, University of Sao Paulo, Brazil

12:00 - 12:20	Effects of Different Modifications on Composition and Technological Properties of
	Lingonberries (Vaccinium vitis-idaea) Pomace

Loreta Basinskiene	, Kaunas University of Te	chnology, Lithua	ania	

12:20 - 12:40	Effect of Different Modified Packaging Atmospheres on the Shelf-life of Sourdough
	Bread

13:00 – 14:00 Lunch Break

17:50 - 18:10



Development of an Active Edible Coating Loaded with Hydroxyapatite/Lactoferrin/



Quercetin Complexes for Food Preservation





PARALLEL SESSION II @ Lounge

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Passcode: 871593

Meeting Link:

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Session-IV Food Sensory Evaluation and Novel Experience for a Better Health and Sustainability

Chairs: Fosca Vezzulli, Catholic University of the Sacred Heart, Italy
Marco A Deriu, Polytechnic of Turin, Italy

	Marco A Deriu, Polytechnic of Turin, Italy
09:40 - 10:10	Keynote Gastrophysics: A New Multisensory Approach to Encouraging Healthy and Sustainable Diets Charles Spence, Oxford University, United Kingdom - Virtual
10:10 - 10:30	Mechanistic and Machine Learning Driven Modelling to Predict and Understand Taste Marco A Deriu, Polytechnic of Turin, Italy
10:30 - 10:50	Future Super Food: Comprehensive Investigation of New Mixed Fruit Juice Mansour Rabie Ashkezary, University of Palermo, Italy
11:00 – 11:20	Coffee Break
11:20 - 11:40	Sensory Profile of Italian Espresso Brewed Arabica Specialty Coffee Under Three Roasting Profiles with Chemical and Safety Insight on Roasted Beans Fosca Vezzulli, Catholic University of the Sacred Heart, Italy
11:40 - 12:00	Advancements in the Omega-3 Fatty Acids Enrichment in Meat Products Trinidad Perez Palacios, University of Extremadura, Spain
12:00 - 12:20	Effect of Different Content of 'Maiorca' Common Wheat Malt in Bread Production on Physico-Chemicals and Sensory Characteristics of Products Ignazio Maria Gugino, University of Palermo, Italy
12:20 - 12:40	Chemical Characterization of <i>Moringa oleifera</i> Leaves for Cookies Formulation Zarroug Ouederni Youkabed, National Agricultural Research Institute of Tunisia, Tunisia - Virtual
12:40 - 13:00	Evaluation of Different Storage Conditions on Chemical Composition and Bioactive Compounds of Voghiera Garlic PDO Paola Tedeschi, University of Ferrara, Italy
13:00 – 13:50	Lunch Break





Session V - 3D Food Printing

Chairs: Bhesh Bhandari, University of Queensland, Australia Anne Louise Dannesboe Nielsen, Danish Technological Institute, Denmark

13:50 - 14:25	Keynote
	3D Food Printing: Recent Developments at TNO
	Kjeld Van Bommel, TNO, Netherlands

14:25 - 14:50 Invited

Application of 3D Printing for Morphing of Food Bhesh Bhandari, University of Queensland, Australia

14:50 - 15:15 Invited

Designing Mechanical Properties of Starch-Protein-Based Foods by Additive Manufacturing Mario Jekle, University of Hohenheim, Germany

15:15 - 15:35 Modulating 3D Food Architecture for New Sensorial Perceptions Rossella Caporizzi, University of Foggia, Italy

15:35 - 15:55 Fruit- and Seafood-Based Formulations for 3D Printing of Foods: Effect of **Thickener Agents** Tatiana Pereira, MARE - Polytechnic of Leiria, Portugal

15:55 - 16:10 3D Food Printing by Rheology and Nozzle Design Michinao Hashimoto, Singapore University of Technology and Design, Singapore

16:10 - 16:30 Coffee Break

16:30 - 16:55 Invited

Bottlenecks and Possible Solutions to Increase the Throughput of 3D Printers in the **Case of Food Application** Alain le Bail, Nantes-Atlantic National College of Veterinary Medicine, France

16:55 - 17:15 Accelerating the Process Development of Innovative Food Products by Prototyping Through 3D Printing Technology

Antonio Derossi, University of Foggia, Italy

17:15 - 17:35 Creating Digital Solutions to Improve 3D Food Printing Efficiencies

Yizhou Ma, Wageningen University and Research, Netherlands

17:35 - 17:55 Improving the Precision and Efficiency of 3D Printing Movements for Superior Food **Structures**

Mehmet Onur ORAL, University of Foggia, Italy

17:55 - 18:15 **3D-Printing of Food for Personalized Nutrition**

Anne Louise Dannesboe Nielsen, Danish Technological Institute, Denmark

18:15 - 18:35 Preliminary Study of the Use of 3D Printing to Prepare Meat Mimics from Plant-

Based Protein and Hydrocolloids: Effect of Texture Modifiers

Supanut Leelapunnawut, King Mongkut's University of Technology, Thailand - Virtual

18:35 - 20:00 Poster Presentations - Networking & Drinks

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Passcode: 231974

18:35 - 19:35

Virtual - Poster Presentations

@ Boncompagni

VP-01 18:35 - 18:39

Improving and Developing Environmentally Sustainable Methods for Food and Feed Analysis

Keshun Liu, United States Department of Agriculture, United States - Virtual

VP-02 18:39 - 18:43

Impact of UV-Light Irradiation on Sensory Properties and Volatile, Fatty Acid and Tocopherol Composition of Peanuts (*Arachis hypogaea L.*)

Adriana Juan Polo, University of Alicante, Spain - Virtual

VP-03 18:43 - 18:47

Spectroscopy Tools in the Authentication of Debittered Tarwi Patricia Glorio-Paulet, National Agrarian University, Peru - Virtual

VP-04 18:47 - 18:51

Phenolic Compounds Profile of *Aronia melanocarpa L.* Extract Identified by UPLC-PDA-ESI-TQD-MS/MS and their in vitro Antioxidant, Potentially Anti-Diabetic, Anti-Obesity Potencies

Sabina Lachowicz-Wisniewska, Calisia University, Poland - Virtual

VP-05 18:51 - 18:55

The Use of Yellow Mealworm (*Tenebrio molitor*) Powder in the Functional Biscuits Production

Alexandra Uivarasan, Technical University of Cluj Napoca, Romania - Virtual

VP-06 18:55 - 18:59

The Consistency Factor and the Viscosity Exponent of Soybean-Protein-Isolate/Wheat-Gluten/Corn-Starch Blends Using a Capillary Rheometry

Donglin Zhao, Chinese Academy of Agricultural Sciences, China - Virtual

VP-07 18:59 - 19:03

Regression Analysis of Dough Stability Time and Extensibility Based on Physicochemical Characteristics of Wheat Milling Streams Flour Protein

Ting SU, Chinese Academy of Agricultural Sciences, China - Virtual

VP-08 19:03 - 19:07

Relationship Between Structure and Function of Soybean Protein Components Based on Literature Review

Binyu Luan, Chinese Academy of Agricultural Sciences, China - Virtual

VP-09 19:07 - 19:11

Antibacterial Activity of a Commercial Propolis Ethanolic Extract against Staphylococci Isolated from Skin

Mary Kalamaki, American College of Thessaloniki, Greece - Virtual

VP-10 19:11 - 19:15

Palmaria Palmata- Extraction of Polyphenols and Determination of Antioxidant Activity Ligia-Ioana Todea, Technical University of Cluj Napoca, Romania - Virtual

VP-11 19:15 - 19:19

Technology of the Hopping Process and the Quality of Non-Alcoholic Beer Kinga Adamenko, Wrocław University of Environmental and Life Sciences, Poland - Virtual

VP-12 19:19 - 19:23

Impact of Drying Methods on the Yield and Chemistry of *Origanum vulgare L.* Essential Oil Lucia Caputo, University of Salerno, Italy - Virtual

Bio-Purification of Plant Proteins: Elimination of Off-Flavours

Strategies Facilitating Edible Insects Acceptance

Pauline F.R. Damhof, Wageningen University and Research, Netherlands

Agnieszka Orkusz, Wrocław University of Economics and Business, Poland

P-11

P-12

FCT-2022 OCTOBER 12-14, 2022 | ROME, ITALY

P-13	Microbiological, Physicochemical and Phytochemistry Compounds of Three Ecotypes of Andean Lupin (<i>Lupinus mutabilis</i>) Flours Evaluated in Two Altitudes Gloria Jesus Pascual Chagman, National Agrarian University, Peru
P-14	Development and Characterisation of a Hybrid Beef/Plant-Based Burger Patty Bjorn Petrat-Melin, Business Academy Aarhus, Denmark
P-15	Biomimetic Oxidative Coupling of Phenol-Agmatine Amides with Horseradish Peroxidase Annemiek van Zadelhoff, Wageningen University and Research, Netherlands
P-16	The True Behind the Myth of Pomegranate Bark: Proofs on Nutraceutical Properties of Pelletierine Giuseppe Iriti, University Magna Graecia of Catanzaro, Italy
P-17	Assessment of Microbiome and Mycotoxins Contamination in Different Processing Fractions of Brazil Nuts (<i>Bertholletia excelsa</i>) Otniel Freitas-Silva, The Brazilian Agricultural Research Corporation, Brazil
P-18	Development of an Isoallergene-Specific Quantification Method for the Apple Allergen Mal D 1 Julia Kaeswurm, University of Stuttgart, Germany
P-19	Effect of Different Processing Technologies on Chemical and Sensory Properties of Dried Caper (Capparis spinosa L.) Powder Concetta Condurso, University of Messina, Italy
P-20	Hemp Seed Flour Enriched Fresh Pasta: Nutritional, Technological, and Sensory Properties Concetta Condurso, University of Messina, Italy
P-21	Influence of Gellan Gum on the Rheological Properties of New Enteral Food Formulations Ivona Kurečić, Ruđer Bošković Institute, Croatia (Hrvatska)
P-22	Rheological Investigation of the Effect of Low-Fat Cocoa Powder on Different Composition of Enteral Food Formulations Nataša Šijaković Vujičić, Ruđer Bošković Institute, Croatia (Hrvatska)
P-23	Continuous Enzymatic Treatment for the Chill Haze Prevention in Beer Marco Esti, University of Tuscia, Italy
P-24	Antioxidant Activity of Digestion-Resistant Whey Peptides in Glial Cells Fabiana Andrea Barrera Galland, ITAL - Institute of Food Technology, Brazil
P-25	Bioaccessibility of Sunflower Flour Compounds Released after Simulated in vitro Digestion Maria Teresa Bertoldo Pacheco, ITAL - Institute of Food Technology, Brazil
P-26	Green Emerging Technologies Adding Value to Sunflower Oil Manufacturing Byproduct Maria Teresa Bertoldo Pacheco, ITAL - Institute of Food Technology, Brazil
P-27	Food for 9 Billion People: Meat Vs. Edible Insects Agnieszka Orkusz, Wrocław University of Economics and Business, Poland
P-28	The Content of Antioxidants and Polyphenols in the Fruit of Selected Hybrid Grape Varieties from Poland Remigiusz Olędzki, Wroclaw University of Economics and Business, Poland

Use of Pulsed Electric Field Pre-Treatment to Enhance Drying Characteristics of Chilean

P-29

Abalone (Concholepas concholepas)

Roberto Lemus-Mondaca, University of Chile, Chile



P-31 Vitamin D2 and Phytochemicals Enhanced King Oyster Mushrooms (Pleurotus eryngii) Decrease Plasma oxLDL in Metabolically Unhealthy Overweight/obese Adults: A **Randomized Controlled Trial**

Andriana C. Kaliora, Harokopio University of Athens, Greece

- P-32 A Novel Nutraceutical Supplement Regulates Blood Inflammation and Oxidative Stress in Patients with Knee Osteoarthritis Andriana C. Kaliora, Harokopio University of Athens, Greece
- P-33 Effect of Treatments and Washing on the Bitterness Perceptions as Assessed by a Sensory **Analysis** Antonio Higinio Sánchez-Gómez, Instituto de la Grasa (IG), CSIC, Spain
- Phycocyanin Enrichment of Minimally Processed Organic Apples P-34 Maria Alessia Schouten, University of Bologna, Italy
- P-35 Towards Sound-Assisted Fermentation: A New Sustainable and Environmentally Friendly Industrial Process to Improve the Speed of Production Giulia Chicarella, University of Rome "Tor Vergata", Italy





Time zone: Rome, Italy Local Time

PARALLEL SESSION I

@ Lounge

Meeting Link: Meeting ID: 876 2500 9325 **Passcode: 231974**

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08:15 - 08:45 Registration

Session VI – Traditional Process for Food Scale Up and Adaptation in Other Localities

Chairs: Antonio Bevilacqua, University of Foggia, Italy Xinping Lin, Dalian Polytechnic University, China

08:45 - 09:15 **Keynote**

Transfer and Scale Up of Food Processing Technologies in Developing Countries:

Focus on Food Fermentations

Rosa Rolle, Food and Agriculture Organization of the United Nations, Italy - Virtual

09:15 - 09:40 Invited

Fermentation, Bio-Preservation and Probiotication: Ancient and Modern Approaches

for Food Valorization

Antonio Bevilacqua, University of Foggia, Italy

09:40 - 10:00 The Effect of Microbial Succession on the Quality of Chinese Traditional Fermented

Fish and Its Industrialization

Xinping Lin, Dalian Polytechnic University, China

10:00 - 10:20 Ultrasound Pretreatment Enhances Anti-Inflammatory and Hypoglycemic Activities

of Edible Bird's Nest Hydrolysate

Pei Ling Tang, Tunku Abdul Rahman University College, Malaysia - Virtual

10:20 - 10:40 Organoleptic Quality and Processing Ability According to the Variety and Location

in Yam (Dioscorea alata)

Dominique Rinaldo, INRAE, Guadeloupe - Virtual

10:40 - 11:00 Sustainability Assessment of Food Waste Biorefineries as the Base of the

Entrepreneurship in Rural Zones of Colombia

Carlos Ariel Cardona, National University of Colombia, Colombia

11:00 - 11:20 Coffee Break

In-Mouth Metabolism and Production of Flavor Sulfur Compounds by Oral 11:20 - 11:40

Microbiota Enzymes

Mathieu Schwartz, CSGA/INRAE, France - Virtual

Session VII - Disruptive Technology Intervention

Chairs: Marco Dalla Rosa, University of Bologna, Italy

Joanna Harasym, Wroclaw University of Economics and Business, Poland

Keynote 11:40 - 12:10

Digital Twins of Food: From Modelling to Inline Applications

Pieter Verboven, Leuven University, Belgium

	12:10 - 12:30	Effects of Plasma Activated Water on Rheological, Thermal, Hydration and Pasting Properties of Normal Maize, Waxy Maize and Potato Starches Gebremedhin Gebremariam Gebremical, University of Bologna, Italy
	12:30 - 12:50	Role of Sugars on Horseradish Peroxidase Inactivation by Cold Atmospheric Plasma Treatment Jessica Laika, University of Teramo, Italy
	12:50 – 14:00	Lunch Break
	14:00 – 14:30	Journal's Presentation – Food Bioscience
	14:30 - 15:00	Keynote Smart Food Production Systems in the Nexus Project Framework Marco Dalla Rosa, University of Bologna, Italy
	15:00 - 15:20	Static Magnetic Field SMF Treatment Impact on Functional Characteristic of Buckwheat Flour Joanna Harasym, Wroclaw University of Economics and Business, Poland
	15:20 - 15:40	In-Silico Modelling of Digestion, Absorption, Hormonal Responses and Sensations of Hunger and Satiety, Applied to Food Systems George Van Aken, COSUN Innovation Centre, Netherlands - Virtual
	15:40 - 16:00	Impact of Plasma Activated Water (PAW) Treatments on the Oxidation of Mussels' Lipids Roberta Foligni, Marche Polytechnic University, Italy - Virtual



PARALLEL SESSION II @ Cervini

Time zone: Rome, Italy Local Time

Meeting Link: Meeting ID: 828 4942 3924

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Passcode: 871593

Session VIII – Physical Properties in Food

Chairs: Bart Nicolai, Leuven University, Belgium Antonio Derossi, University of Foggia, Italy

09:45 – 10:15 **Keynote**

3-D Visualisation of Food Structure at Multiple Scales by Means of X-ray

Computed Tomography

Bart Nicolai, Leuven University, Belgium

10:15 – 10:35 Monitoring of Canola Protein Gels Digestion by Rheology and Small-Angle

Scattering Techniques

Francois Boue, Laboratoire Léon Brillouin - CNRS/CEA/UPSay, France - Virtual

10:35 – 10:55 How to Control the Torque of Plant-Based Protein Extrusion?

Bo Zhang, Chinese Academy of Agricultural Sciences, China - Virtual

11:00 – 11:20 Coffee Break

11:20 – 11:45 Invited

Food Structuring and Customized Nutrition

Jeyan A. Moses, National Institute of Food Technology, Entrepreneurship and Management -

Thanjavur, India - Virtual

12:10 - 12:30 Relationship between the Physicochemical Properties of Soybean Protein Isolate

and its Extrudate Based on High-Moisture Extrusion Torque

Ang Meng, Chinese Academy of Agricultural Sciences, China - Virtual

12:30 - 12:50 Effect of Glucose Levels on the Rheo-Fermentation Properties of Dough During

Fermentation

Dongdong Xie, Henan University of Technology, China - Virtual

12:50 - 14:00 Lunch Break

Session IX – Consumer's Trust and Awareness in Food Science and Technology & Open Science Culture, Data Mining and Visualization in Food Science

Chairs: Bart Nicolai, Leuven University, Belgium
Antonio Derossi, University of Foggia, Italy

14:30 – 15:00 **Keynote**

Four Levels of Data Visualization in Food Science
Min Chen, University of Oxford, United Kingdom - Virtual

15:00 – 15:20 Segmenting Countries Based on Global Food Security Index: Biclustering Approach

Milica Maričič, University of Belgrade, Serbia







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