

7th Edition of Innovations in
**FOOD SCIENCE AND
HUMAN NUTRITION**

July 19-20, 2023 FRANKFURT, GERMANY



Day -1: July (19, 2023)

Augsburg Hall

Registrations Open (8:00-08:45)

Opening Ceremony (8:45-09:00)

Keynote Talks

Prof. Hühn Tilo

Zurich University of Applied Sciences (ZHAW), Switzerland

09:00-09:30

Cellular Cocoa and Chocolate

Dr. Shaodong Guo

Texas A&M University, USA

09:30-10:00

Nutritional and hormonal impacts on type 2 diabetes mellitus and chronic metabolic diseases

Prof. H. P. Vasantha Rupasinghe

Dalhousie University, Canada

10:00-10:30

Carvacrol-enriched herbal tea for the management of pharyngitis: Inhibition of *Streptococcus pyogenes* and anti-inflammatory properties

Group Photo & Refreshment Break (10:30-10:45)

Technical Session-I

THEMES: Food and Nutritional Science

Farm to Fork: Sustainable Food Production

Session Chairs: Prof. H. P. Vasantha Rupasinghe & Prof. Shaodong Guo

Will Elrick

Southern Cross University, Australia

10:45-11:05

Exploring Opportunities and Constraints of a Certification Scheme for Regenerative Agricultural Practice

<p>Quinton Winger <i>Colorado State University, USA</i></p>	<p>11:05-11:25</p>	<p>Investigating placenta insufficiency, fetal growth and thyroid hormone in sheep using RNA interference</p>
<p>Elango Ayyasamy <i>Veterinary College and Research Institute, Tamil Nadu Veterinary and Animal Sciences University, Salem,India</i></p>	<p>11:25-11:45</p>	<p>Postbiotics, The Dynamic Biomolecules: The Future of Gut Health</p>
<p>Gerrie du Rand <i>University of Pretoria, South Africa</i></p>	<p>11:45-12:05</p>	<p>The South African bread market and consumers' willingness to adopt more sustainable options</p>
<p>Johannes Tietze <i>Libelle Group, New Zealand</i></p>	<p>12:05-12:25</p>	<p>Innovation in Food Service and Nutrition at Scale to the Education Sector in New Zealand</p>
<p>Yuji Naito <i>Kyoto Prefectural University of Medicine, Japan</i></p>	<p>12:25-12:45</p>	<p>Partially Hydrolyzed Guar Gum Suppresses the Development of Sarcopenic Obesity</p>
<p>Rachel Amir <i>Tel Hai College, Israel</i></p>	<p>12:45-13:05</p>	<p>The biodiversity of different traits of pomegranate fruit peels from a broad collection of diverse cultivars</p>

Lunch Break @ Vitruv Restaurant (13:05-14:00)

Technical Session-II

**THEMES: Functional Foods, Nutrition, Nutraceuticals & Bioactives
Nutrition and Health**

**Session Chairs:
Dr. Oliver Micke & Dr. Gerrie du Rand**

<p>Oliver Micke <i>Franziskus Hospital Bielefeld, Germany</i></p>	<p>14:00-14:20</p>	<p>Importance of Magnesium Status in COVID-19</p>
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Paola Aiello <i>La Sapienza University of Rome, Italy</i>	14:20-14:40	Assessment of lifestyle, metabolic status and prevalence of orthorexia nervosa in a population of Italian and Spanish university students
Joachim M. Gerhold <i>Icosagen Cell Factory OU, Estonia</i>	14:40-15:00	Colostrum-derived immunoglobulins may serve as prophylactic agent against infections of the respiratory tract – SARS-CoV-2 paved the way
Zhen-Yu Chen <i>School of Life Sciences, Chinese University of Hong Kong, Hong Kong</i>	15:00-15:20	Cholesterol, Heart Diseases and Functional Foods
Massimo Zollo <i>University Federico II of Naples, Italy</i>	15:20-15:40	Long-chain polyphosphates impair SARS-CoV-2 infection and replication
Mimi Tse <i>Hong Kong Metropolitan University, Hong Kong</i>	15:40-16:00	In managing chronic pain for older adults: does it help using a dyadic approach?
Refreshment Break (16:00-16:15)		
Session Chairs: Dr.Massimo Zollo & Dr.Christof Björn Steingass		
Jaijeong Choi <i>CHA University School of Medicine, South-Korea</i>	16:15-16:35	Experience of development and management of IPE courses. A case study of an IPE Center CHA IPE Bridge
Shanshan Liu <i>Northeast Agricultural University/Key Laboratory of Soybean Biology of the Chinese Education Ministry, China</i>	16:35-16:55	Breeding of 'DND358': A New Soybean Cultivar for Processing Soy Protein Isolate with a Hypocholesterolemic Effect Similar to that of Fenofibrate

Yingjie Ai <i>Zhongshan Hospital, China</i>	16:55-17:15	UPLC-MS/MS-based serum metabolomics signature as biomarkers of esophagogastric variceal bleeding in patients with cirrhosis
Rong Liu <i>China Agricultural University, China</i>	17:15-17:35	mTOR-mediated phosphorylation of VAMP8 and SCFD1 regulates autophagosome maturation
Christof Björn Steingass <i>Geisenheim University, Germany</i>	17:35-17:55	Processing of berry purées under low-oxygen conditions using spiral filter press improves retention of anthocyanins
Hilal Zaid <i>Arab American University, Palestine</i>	17:55-18:15	Identification of Potential Druggable Targets for Antidiabetic Phytochemicals: A Combined In Silico, In Vitro and In Vivo Study
Mouwang Zhou <i>Department of Rehabilitation Medicine, Peking University Third Hospital</i>	18:15-18:35	Reliability and validity of the fall risk self-assessment scale for community-dwelling older people in China: a pilot study

Pannel Discussions

Day-2 (July 20, 2023)

Technical Session-III

Moderator:

Mary Beth Babos

Lincoln Memorial University DCOM, USA

Session Chairs:

Prof. Elango Ayyasamy & Dr. Wayne M Barnes

Triantafyllos Didangelos

*Aristotle University of
Thessaloniki, Greece*

09:00-09:20

Vitamin B12 Supplementation in Diabetic Neuropathy: A 1-Year, Randomized, Double-Blind, Placebo-Controlled Trial

Julian Chen

*Chinese Academy of
Agricultural Sciences,
China*

09:20-09:40

Transcriptomic and metabolomic analysis of wheat kernels in response to the feeding of orange wheat blossom midge (*Sitodiplosis mosellana*) in the field

Michael Keusgen

*Philipps-Universität
Marburg, Germany*

09:40-10:00

Essential Oils as Multicomponent Mixtures and Their Potential for Human Health and Well-Being

Mihaela Mihnea

Orebro University, Sweden

10:00-10:20

Does panel age affect sensory perception of particulated foods? A case on broccoli purees

Mary Beth Babos

*Lincoln Memorial
University DCOM, USA*

10:20-10:40

Evaluation of herb/dietary supplement interactions with prescription medications: where is the clinician to turn?

Refreshment Break (10:40-11:00)

Session Chairs:

Samaneh Ghasemi Fard & Lucien F. Harthoorn

Angela Conti <i>University of Perugia, Italy</i>	11:00-11:20	Who's there? Assessing alternative genetic markers to achieve a better identification of microbial species
Wayne M Barnes <i>DNA Polymerase Technology, Inc. St. Louis, Missouri USA</i>	11:20-11:40	Selection of Taq DNA polymerase mutants resistant to food, using whole bacteria as enzyme, results in improved mutant enzymes
Dariusz Kulus <i>Bydgoszcz University of Science and Technology, Poland</i>	11:40-12:00	Innovations in the production, breeding and conservation of fruit and vegetable crops
Lucien F. Harthoorn <i>Clasado Biosciences Ltd., UK</i>	12:00-12:20	Gut microbiome and the influence by nutrition
Samaneh Ghasemi Fard <i>Nu-Mega Ingredients Pty Ltd, Brisbane, Australia</i>	12:20-12:40	Encapsulated tuna oil Results in Higher Absorption of DHA in Toddlers
Annamaria Ranieri <i>University of Pisa , Italy</i>	12:40-13:00	The role of chitosan for food preservation: a valuable polysaccharide derived from fishing and insect industry waste

Lunch Break @ Vitruv Restaurant (13:00-14:00)

Technical Session-IV

Session Chairs:
Dr. Sylvester O. Oikeh & Dr. Anna Lavecchia

Leticia Barrientos Díaz <i>Universidad de La Frontera, Chile</i>	14:00-14:20	Antarctic Environments as a Source of Bacterial Compounds: Cold-Active Enzymes as an Alternative to Commercial Ones
Sylvester O. Oikeh <i>African Agricultural Technology Foundation, Kenya</i>	14:20-14:40	Enhancing Grain Yield and Quality Using Drought- and Insect-resistant Transgenic Maize Varieties in Africa

Edgar Landines Vera <i>Universidad de Guayaquil, Ecuador</i>	14:40-15:00	Understanding the dynamics of volatile compounds during fermentation of fine flavor cacao.
Kamal BENALI <i>Mohammed VI Polytechnic University, Morocco</i>	15:00-15:20	Iodine analysis and distribution in phosphate rocks and their derivatives.
Technical Session- V 15:20-16:20- Poster Viewing and Refreshment Break Included @ Foyer		
Hsin-Yu Kuo <i>TCI Co., Ltd., Taiwan</i>	16:20-16:40	Protective Effect of Djulis (<i>Chenopodium formosanum</i>) Extract against UV- and AGEs-Induced Skin Aging via Alleviating Oxidative Stress and Collagen Degradation
Anna Lavecchia <i>University of Bari Aldo Moro, Bari, Italy</i>	16:40-17:00	Identification of new candidate lipases for exocrine pancreatic insufficiency
Sibongiseni Mgozeli <i>University of South Africa, South Africa</i>	17:00-17:20	Investigation of Infiltration and Runoff Rate on Agri-Mats Using a Laboratory Rainfall Simulation Study
Nahla O. Eltai <i>Qatar University, Qatar</i>	17:20-17:40	Investigating AMR in food-producing animals under One Health Approach
Zhengping Wang <i>Liaocheng University, Shandong, China</i>	17:40-18:00	Protective effect and mechanism of D-ribose on doxorubicin-induced cardiotoxicity
Pannel Discussions		

Posters

<p>Iwona Majak Lodz University of Technology, Poland</p>	<p>P-1</p>	<p>The effect of nanoparticle fertilizer mode of application on the content of Sola I 1 and Sola I 4 allergens in tomato fruit</p>
<p>L.J. de Pagter-de Witte Wageningen Food Safety Research, The Netherlands</p>	<p>P-2</p>	<p>Dietary intake of protein, fat and chemicals of 12- to 36-months old children in a Dutch Total Diet Study</p>
<p>Bo Song Northeast Agricultural University, China</p>	<p>P-3</p>	<p>Breeding of 'DND358': A New Soybean Cultivar for Processing Soy Protein Isolate with a Hypocholesterolemic Effect Similar to that of Fenofibrate</p>
<p>Takayuki Yamamoto Morinaga & Co., Ltd, Japan</p>	<p>P-4</p>	<p>Effect of sucrose on amino acid absorption of whey : A randomized crossover trial</p>
<p>Cristiana Radulescu Valahia University of Targoviste, Romania</p>	<p>P-5</p>	<p>A new analytical approach for the determination of microplastics from branded milk</p>
<p>Laura Bayés García Universitat de Barcelona, Spain</p>	<p>P-6</p>	<p>Talc as crystallization promoter and polymorphic stabilizer of cocoa butter</p>
<p>Laura Bayés García Universitat de Barcelona, Spain</p>	<p>P-7</p>	<p>Polymorphic study of extra virgin olive oil deconstructed through dry fractionation methods</p>
<p>Teresa Calvet Universitat de Barcelona, Spain</p>	<p>P-8</p>	<p>The germination conditions of cacao beans explained through the cocoa butter crystallization behavior</p>
<p>Teresa Calvet Universitat de Barcelona, Spain</p>	<p>P-9</p>	<p>Polymorphic fingerprint of Iberian pig categories to avoid food fraud</p>

Jorge Macridachis <i>Universitat de Barcelona, Spain</i>	P-10	Mixing behavior of palmitic and oleic-containing triacylglycerols: the PPP-OPO system
Jorge Macridachis <i>Universitat de Barcelona, Spain</i>	P-11	Molecular compound development in lipid systems based on palmitic, lauric and oleic fatty acids
Li Yunmei <i>Jiusan Oils & Grains Industries Group Co., Ltd., China</i>	P-12	Jiusan Oils & Grains Industries Group Co., Ltd.
Daniela Edith Rivera Tobar <i>Universidad de Santiago de Chile, Chile</i>	P-13	Ultrasonic compression in macro- and micro-algae-based protein matrices and its effect on thermophysical and microstructural properties
Areej Al-Khalaf <i>University:-Princess Nourah bint Abdulrahman University, Saudi Arabia</i>	P-14	Mycosynthesis, Characterization, and Mosquitocidal Activity of Silver Nanoparticles Fabricated by <i>Aspergillus niger</i> Strain

DAY-2 (July 20, 2023)

Parallel Virtual Program
CET- Frankfurt**ZOOM Meeting**

ID: 847 7134 7742

Passcode: 137962

Wangang Zhang*Nanjing Agricultural University, China***08:40-09:00**

The anti-inflammatory effects of dry-curing ham derived bioactive peptides in RAW264.7 macrophage cells

Pingping Li*Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China.***09:00-09:20**

Insulin induces insulin receptor degradation in the liver through EphB4

Oana-Viorela Nistor*Dunărea de Jos University of Galați, Romania***09:20-09:40**Comparison between orange sweet potato (*Ipomoea batatas*) purees treated by different types of heating**Liezl Marinay Atienza***University of the Philippines Los Banos, Philippines***09:40-10:00**

Anti-inflammatory and lipid-lowering properties of Philippine indigenous berries

Jayashree M*Katra Group Co., India***10:00-10:20**

Protective effect of a mixture of marigold and rosemary extracts on UV-induced photoaging in mice

Kim-Ndor**Djimadoumngar***A Sapiens International, N'Djamena, Chad***10:20-10:40**

Climate variables, pesticides, and population dynamics effects on root and tuber crops production in the Sahelo-Savanicole region of Chad

Amalia Conte*University of Foggia, Italy***10:40-11:00**

Effects of plasma treatments applied to fresh ricotta cheese

Lydia Bondareva <i>Federal Scientific Center of Hygiene named after F.F. Erisman, Russia</i>	11:00-11:20	Pesticides: behavior in Agricultural Soil and Plants
Ivana Sola <i>University of Zagreb, Zagreb</i>	11:20-11:40	TBA
Kinga Gawel <i>Medical University of Lublin, Poland</i>	11:40-12:00	Palmatine- a new anticonvulsant drug candidate?
Justyna Jalmuzna <i>Medical University of Lodz, Poland</i>	12:00-12:20	Lunasin inhibits cell growth and changes the expression of DNA methyltransferase genes in human erythroleukemic K562 cells
Katharina A. Werner <i>Berliner Hochschule for Technik, Germany</i>	12:20-12:40	Insights into thermophilic composting of human excreta – succession of the bacterial community and antibiotic resistance
Aleksandra Twarda-Clapa <i>Lodz University of Technology, Poland</i>	12:40-13:00	Dietary and endogenous advanced glycation end-products (AGEs): receptors and AGE-related diseases
Rossella Vadala <i>University of Messina, Italy</i>	13:00-13:20	A chitosan-based, edible biofilm for food wrapping: from formulation to functionality
Antonio Rosa-Castillo <i>University of Barcelona, Spain</i>	13:20-13:40	Gamifying a Dietetics and Nutrition subject via Instagram: university students' degree of satisfaction and perception of learning
Peter Rembischevski <i>University of Brasilia, Brazil</i>	13:40-14:00	Risk perception of food chemicals and technologies in the Midwest of Brazil: a population-based cross-sectional survey
Lady Paola Cortes Vega <i>National University of Colombia, Colombia</i>	14:00-14:20	Effect of the inclusion of Sacha Inchi flour (<i>by-product of the process</i>) on the quality and storage properties of bakery products

Othman Soufan <i>St. Francis Xavier University, Canada</i>	14:20-14:40	A novel graph mining approach to predict and evaluate food-drug interactions
Jiewen Guan <i>Canadian Food Inspection Agency, Canada</i>	14:40-15:00	Influence of gut microbiome on horizontal transfer of β -lactam resistance genes using a mouse model
Holly Bartholomew <i>USDA-ARS, USA</i>	15:00-15:20	Purging toxins: Patulin inhibits postharvest fungal pathogens while <i>Penicillium</i> spp. utilize active efflux for toxin resistance
Douglas Landblom <i>North Dakota State University, USA</i>	15:20-15:40	Performance and profitability were positively affected by frame score, grazing, and delayed feedlot entry among yearling steers originating from small- and large-framed crossbred cows in an integrated crop-livestock system
Raymond Glahn <i>USDA-ARS, USA</i>	15:40-16:00	Keynote Talk: Iron Biofortification of Staple Food Crops: Redefining the Approach
Amber L. Hauvermale <i>Washington State University, USA</i>	16:00-16:20	Evaluating the relationships between seed morphology and seed dormancy in quinoa
Erik Froyen <i>California State Polytechnic University, Pomona, USA</i>	16:20-16:40	The effects of fat consumption on low-density lipoprotein particle size in healthy individuals
Oscar Javier Jossa Bastidas <i>eVida Research Group, University of Deusto, Spain</i>	16:40-17:00	Monitoring and detection of food allergies and intolerances using the NIR-AI system, qPCR, and traditional commercial Elisa methods

Closing Remarks

*We wish to
see you again at*

8th Conference on Innovations in
**NUTRITION AND
FOOD SCIENCE**

Sep 07 - 08, 2023 **ROME, ITALY**

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