Detailed Program

	17 th June	
8:30-9:00	Registration	
9:00-9:30	Opening Ceremony	
Plenary sessi	on 1 – Chairperson: Marco Arlorio	
9:30-10:10	Livia Sarkadi - "Peter Czedik-Eysenberg Lecture". The role of food chemistry in the development of food science. History and future challenge"	
Room 1 – Functional Foods – Chairperson: Tanja Cirkovic Velickovic		
10:15-10:30	Yan Wang - Prenylated flavonoids derived from <i>Flemingia philippinensis</i> display potent bacterial neuraminidase inhibition activities	
10:30-10:45	Filipa Mandim - Influence of the harvest stage on the phenolic composition and bioactive properties of <i>Cynara cardunculus</i> L. var. <i>altilis</i> heads	
10:45-11:00	Laura Mateo-Vivaracho - Study of functional properties of wild and cultivated edible mushroom powder	
Room 2 – Food	d Safety – Chairperson: Vieno Piironen	
10:15-10:30	Sonia Losada-Barreiro - The antioxidant efficiency in O/W emulsions can be controlled by modulating antioxidant interfacial concentrations	
10:30-10:45	Maria S. Silva Lopes - Mycotoxin content of Salicornia L. in Portugal	
10:45-11:00	Caroline Douny - Development of an analytical method for the simultaneous measurement of 10 biogenic amines in meat. Application to Beninese grilled pork samples.	
Room 3 – Food	d Sustainability – Chairperson: Victor de Freitas	
10:15-10:30	Rúbia Corrêa - Chemical composition and bioactivities of Juçara fruit bioresidues, a promising source of valuable molecules	
10:30-10:45	Elisabete Coelho - Antimicrobial potential of essential oils from agro-industrial by-products as possible feed ingredients	
10:45-11:00	Tassadit Benhammouche - Enhancing Proteins extraction from <i>Moringa Oleifera</i> leaves: From conventional methods to a fully integrate process	
11:00-11:45	Coffee break / posters session	
Room 1 – Functional Foods – Chairperson: José Baptista		
11:45-12:00	Franks Kamgang Nzekoue - Development of a new functional dairy product enriched in phytosterols: the importance of food chemistry	
12:0-12:15	Elisabete Gonçalves - Administration of Castanea sativa flowers extract in Wistar rats	
12:15-12:30	Paulina Opyd- Comparative effects of dietary hempseeds and hempseed oil on liver functions and lipid metabolism in genetically obese rats	

12:30-12:45	Maria Rita Martins - Acorn Flour as bioactive compounds source in gluten free bread	
Room 2 – Food Safety – Chairperson: Reto Battaglia		
11:45-12:00	Zuzana Ciesarová - Health promoting foods with sea buckthorn: more benefits, less acrylamide	
12:0-12:15	Rebeca Cruzls it safe to eat seafood? A case study of flame-retardants	
12:15-12:30	Iolanda Nicolau-Lapeña - Selecting alternatives to chlorine for strawberry sanitation while maintaining nutritional and physicochemical quality	
12:30-12:45	Lieselot Hemeryck - Investigation of diet-related DNA adduct formation by means of DNA adductomics	
Room 3 – Foo	d Sustainability – Chairperson: Susana Cardoso	
11:45-12:00	Kandi Sridhar - Kinetics modeling and effect of drying temperature on new commercial grape 'Kyoho' skin: Evaluation for functional and antioxidant properties	
12:0-12:15	Franziska Hanschen - Stability of glucosinolate hydrolysis products and the identification of novel compounds in foods	
12:15-12:30	Rossana Cardoso - Gamma irradiation preserves nutritional and chemical composition of <i>Agaricus bisporus</i> Portobello	
12:30-12:45	Thi-Van-Linh Nguyen - Effects of Drying Conditions in Low-temperature Microwave-assisted Drying on Bioactive Compounds and Antioxidant Activity of Dehydrated Bitter Melon Slices (Momordica charantia L.)	
Keynote 1 – Chairperson: Fernando Ramos		
12:45-13:15	Nicoletta Pellegrini - Food design and low-calorie intake	
13:15-14:30	Lunch break	
Plenary session 2 – Chairperson: Tanja Dcirkovic Velickovic		
14:30-15:10	Isabel CFR Ferreira - Functionalizing food with natural bioactive ingredients	
Room 1 – Functional Foods – Chairperson: Nadia Mulinacci		
15:15–15:30	Bartosz Fotschki - The effect of diets supplemented with hemp and poppy seed oils on the development of obesity-related disorders in Zucker rats	
15:30-15:45	Oludemi Taofiq - Enhanced extraction of ergosterol from <i>Pleurotus ostreatus</i> using response surface methodology (RSM)	
15:45-16:00	Tuba Esatbeyoglu - Biological activities of stilbenoids in vitro	
16:00-16:15	Giovanni Caprioli - Simultaneous quantification of 30 different bioactive compounds including polyphenols in spent coffee ground and coffee silverskin by HPLC-MS/MS triple quadrupole	
Room 2 – Food Composition – Chairperson: Roberto Larcher		
15:15-15:30	Antonio Salatino - How diverse is Brazilian propolis?	

15:30-15:45	Iris Tauber - Flavour analysis of an old Austrian apple variety at different ripening stages
15:45-16:00	Fernando Tateo - IRMS characterization of the saffron water-soluble fraction for the discrimination of the origin.
16:00-16:15	Carmen Gonzalez Sotelo - SEA-TRACES – Sustainable Seafood Production using Authenticity and Traceability tools
16:15-16:30	Christoph Walkner - Food authentication by rare earth element labelling and detection using solution based and laser ablation ICP-MS
Room 3 – Foo	od Sustainability – Chairperson: Daniel Alberto Wunderlin
15:15–15:30	Ana Rita Silva - Agrocybe cylindracea bio-residues: a sustainable source of ergosterol-rich bioactive extracts
15:30-15:45	Vera Barbosa - Tailored farmed fish iodine and selenium fortification with naturally enriched diets: gilthead seabream (<i>Sparus aurata</i>) and common carp (<i>Cyprinus carpio</i>) as case studies
15:45-16:00	Steve Huysman - At-line boar taint classification by means of Rapid Evaporative Ionisation Mass Spectrometry (REIMS)
16:00-16:15	Ana Luísa Fernandes - Anthocyanins Thermostability Modulation Through the Fortification with Pectic Polysaccharides Extracts
16:15-16:30	Filipa Pimentel - Simulated gastrointestinal digestion increases the antioxidant activity of <i>Porphyra dioica</i>
16:30-16:45	Coffee break and poster session
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(Aristichthysnobilis) heads

17:45-18:00	Daniel Wunderlin - Authenticity of Complex Foods: A Targeted Metabolomics Study of Authenticity Markers of Chía, Flax and Sesame Seeds in Bakery Products.
18:00:18:15	Hanna Manninen - Linking non-volatile taste compounds with the sensory profile of Nordic wild mushrooms
18:15-18:30	Tatiana Vilela - The Effect of Dissociating Agents on the Dispersion of a Grated Cheese – Conclusions for its Structure-Holding Interactions
Room 3 – Food Processing – Chairperson: Jorge Saraiva	
17:15-17:30	Stephanie Treibmann - Dicarbonyl Scavenging by Creatine in Food and in vivo
17:30-17:45	Maria Gabriela Lima - Shiitake mushroom (Lentinola edodes) spread creams
17:45-18:00	Alexandra Fatouros - Potential browning precursors within uronic acid reaction- systems
18:00:18:15	Ítala Marx - Monitoring physicochemical and sensory attributes during debittering of stoned green olives
18:15-18:30	Floriane Doudiès - Impact of low temperature on interactions and cohesiveness of casein micelles dispersions
Keynote 2 – Chairperson: Karel Cejpek	
18:30-19:00	Lilia Ahrné - Customised dairy products by gentle processing
19:30	Welcome reception

18th June

Plenary session 3 – Chairperson: Livia Simon-Sarkadi		
9:00-9:40	Luciano Navarini - New trends in Coffee Research: a Chemical Perspective	
Room 1 – Foo	od Composition and Authenticity – Chairperson: Isabel Revilla	
9:45-10:00	Cemile Yılmaz - Neuroactive Compounds in Fermented Foods	
10:00-10:15	Lorenzo Cecchi - Volatile fraction by HS-SPME-GC-MS and sensory evaluation of more than 1200 Virgin Olive Oil samples: methods to support Panel Test in Virgin Olive Oil classification	
10:15-10:30	Thelma Machado - Blockchain technology for the management of food sciences researches	
Room 2 – Foo	od Processing – Chairperson: Dulcineia Ferreira Wessel	
9:45–10:00	Małgorzata Wronkowska - Bioaccessible of D-chiro-inositol from water biscuits formulated from common buckwheat flours fermented by lactic acid bacteria or fungi	
10:00-10:15	Sandra Grebenteuch - Thermal deterioration of $\omega3$ and $\omega6$ fatty acids under food processing conditions	
10:15-10:30	Michael Hellwig - Protein oxidation in food: Focus on individual structures	
10:30-10:45	Maria Serrano - Effect of drying methods on the properties of mixtures of aromatic plants for gastronomy using different encapsulated agents	
Room 3 – Foo	od Packaging – Chairperson: Yildirim Selçuk	
9:45–10:00	Paula Ferreira - BIOFOODPACK - Biocomposite Packaging for Active Preservation of Food: the project and the progresses	
10:00-10:15	Ana Machado Silva - Innovation in food packaging: a retailer's perspective	
10:15-10:30	Gianni Sagratini - GRAFOOD: 'Active GRAphene based FOOD packaging system for a modern society'	
10:30-10:45	Ana Barra - Development of clay-supported graphene materials for electrical conductive food packaging applications	
10:45-11:30	Coffee break / posters session	
Room 1 – Food Composition and Authenticity – Chairperson: Ewa Sikorska		
11:30-11:45	Diletta Balli - Optimized hydrolytic methods by response surface methodology to avoid underestimation of phenols in cereals: the case of millet.	
11:45-12:00	Antónia Nunes - Olive pomace: a multidimensional approach focusing zero wastes	
12:00-12:15	Juhász Réka - Comparison of dietary fiber enriched cookies	
12:15:12:30	Claudia Passos - Role of espresso and instant coffee melanoidins on chlorogenic acids and caffeine adsorption and potential immunomodulation effects	
Room 2 – Food Processing – Chairperson: Hans-Jacob Skarpeid		

11:30-11:45	Maria João Carvalho - Repitching impact on sugars and amino acids uptake by a lager yeast	
11:45-12:00	Clemens Kanzler - Maillard induced color formation based on intermediates with activated methylene groups	
12:00-12:15	Sónia Ferreira - Broccoli by-products as ingredients rich in bioactive compounds after microwave assisted dehydration	
12:15:12:30	Andreia Silva - From maize flour to bread: changes in hydroxycinnamic acid and their derivatives after processing	
Room 3 – Food Packaging – Chairperson: Paula Ferreira		
11:30-11:45	Zélia Ribeiro Alves - Exploring the zinc oxide – reduced graphene oxide as an active composite in alginate films for food packaging application	
11:45-12:00	Carla Barbosa - Effect of MAP (high CO2%) on quality of fresh-cut non-climacteric vegetables in light of PCA with predictive biplots	
12:00-12:15	Duarte Rego - BioFoodPack Pulsed Electric Fields: in-package application for microbial inactivation for food products	
12:15:12:30	Gonçalves Idalina - Agrofood byproducts as feedstocks for active food packaging materials	
Keynote 3 – Chairperson: Zuzana Ciesarova		
12:30-13:00	Saskia Van Ruth - Smelling fraud: sniffing spices	
13:00-14:30	Lunch break	
13:00-14:30 14:00-14:25	Lunch break Vendors seminar – WATERS Euan Ross - Determination of acrylamide in processed foods by LC-MS/MS	
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15:15-15:30

José Figueira - New analytical approach, NTME/GC-MS, as a powerful strategy for establishment of the volatomic profile, an alternative to SPME/GC-MS

15:30-15:45 Carolina Camacho - Carotenoids and colour of wild sea urchin (Paracentrotus lividus) gonads Ewa Sikorska - Optical spectroscopy and chemometrics as a tool for quality and 15:45-16:00 authenticity assessment of apple fruits and juices Rafael Sprea - A comprehensive study on the nutritional, chemical and bioactive 16:00-16:15 properties of lovage (Levisticum officinale W.D.J. Koch) Marijana Ačanski -Hierarchical clustering of cold-pressed pumpkin seed oil 16:15-16:30 samples from various sources Room 3 - Food Safety - Chairperson: Giovanni Caprioli Bienvenida Gilbert-Lopez - Liquid chromatography/mass spectrometry and 15:15-15:30 dielectric barrier discharge ionization (DBDI): a versatile tool for pesticide analysis in food Tiziana Nardin - Glycoalkaloid profiles of herbal infusion using neutral loss - high 15:30-15:45 resolution mass spectrometry 15:45-16:00 Carlos Cardoso - Algal consumption: weighing benefits against risks 16:00-16:15 Rosa Pilolli - Multidisciplinary characterization of selected wheat genotypes and in-silico risk assessment of their potential toxicity for celiac disease patients Sarah Azinheiro - Comparative study of multiplex real-time Recombinase 16:15-16:30 Polymerase Amplification and ISO 11290-1 methods for the detection of Listeria monocytogenes in dairy products 16:30-17:15 Coffee break and poster session Room 1 – Functional Foods – Chairperson: Franziska S. Hanschen 17:15-17:30 Andre Horta - Extraction optimization of phenolic compounds from Fucus spiralis 17:30-17:45 Yibin Li - Effect of Different Encapsulating Agent Combinations on Physicochemical Properties and Stability of Microcapsules Loaded with Phenolics of Plum (Prunus salicina Lindl.) Débora A. C. Campos - Pineapple by-products integrated valorisation towards 17:45-18:00 functional foods Room 2 - Food Processing - Chairperson: Michael Hellwig Custódio Lobo Roriz - Dragon fruits as an alternative source of colorants: 17:15-17:30 evaluation of antibacterial activity and colouring capacity Baoru Yang - Impact of Bioprocessing on Bioactive and Flavour Compounds of 17:30-17:45 **Berry Products** Ma. Michelle Lopez - Flavonoid enrichment of fresh-cut apple through osmotic 17:45-18:00 dehydration Room 3 – Food Safety – Chairperson: António Peres 17:15-17:30 Tomas Lafarga - Potential of thermosonication as an alternative to chlorine disinfection in strawberries inoculated with Listeria innocua 17:30-17:45 Susana Bernardino - Use of a seaweed-enriched kefir whey in the development of edible food coatings 17:45-18:00 Kristina Kukurova - Variability of L-asparagine level in sea buckthorn berries and acrylamide formation in novel cereal products

Keynote 4 – Chairperson: Joana Amaral

18:00-18:30 Yildirim Selçuk - Active food packaging

20:00 Congress dinner

19th June

Plenary session 5 – Chairperson: Michael Murkovic	
9:00-9:40	Gaud Dervilly-Pinel - An ever-increased confidence in chemical food safety driven by latest analytical innovation
Room 1 – Fur	nctional Foods – Chairperson: José Câmara
9:45–10:00	Mafalda A.M.M. Silva - Functional features of two varieties of <i>Cucumis melo</i> L.: pulp and by-products
10:00-10:15	Maja Jeż - Functional properties of tomatoes in the aspect of inhibition of advanced glycation end products formation and activity of antiangiotensine and antiacetylocholinesterase
10:15-10:30	Ana Margarida Faustino - Goat Probiotic Whey Cheese: Development and Nutritional Value
10:30-10:45	Maria Cermeno - Generation and characterisation of phenolic rich extracts from brewers' spent grain with hypotensive properties
Room 2 – Foo	od Composition and Authenticity – Chairperson: Thelma B. Machado
9:45-10:00	Diana Melo - Trends in human diets: Seeds as a source of fibre
10:00-10:15	Nicolas Sommerer - Linking cocoa polyphenol composition to chocolate quality with Average-Mass-Spectra fingerprints
10:15-10:30	Mustafa Reşat Apak - Criteria for selection of antioxidant capacity assays for food antioxidants: Evaluation of CUPRAC, FRAP, Folin-Ciocalteau, ORAC, ABTS and DPPH assays
Room 3 – Food Processing – Chairperson: Małgorzata Wronkowska	
9:45–10:00	Csilla Benedek - Effect of sweetener and storage on formation of compositional and sensory properties of jams
10:00-10:15	Pedro António Fernandes - Flavan-3-ols in apple pomace: role of their interactions with arabinans
10:15-10:30	Tanja Seppälä - Quality of protein concentrates isolated by two different methods from Baltic herring (<i>Clupea harengus membras</i>) and roach (<i>Rutilus rutilus</i>)
10:30-10:45	Susana Soares - Interaction of human salivary proteins with food polyphenols
10:45-11:30	Coffee break / posters session
Room 1 – Functional Foods – Chairperson: Manuel António Coimbra	
11:30-11:45	Priscilla Figueira - In vitro investigation of the health promoting benefits from different food matrices: From extraction to characterization and in vitro evaluation
11:45-12:00	Henghui Zhang - Preparation and Purification of Antioxidative Peptides Generated from Enzymatic Hydrolysates of Perilla Seed Meal
12:00-12:15	Ana Rita Circuncisão - In vitro bioaccessibility and bioavailability of minerals and pigments from macroalgae-fortified frankfurters

Room 2 – Food Safety – Chairperson: Vaida Kitryte		
11:30-11:45	Ly Tuan-Kiet - Matrix effect in multi-pesticide residues analysis: the complexity in tea commodities	
11:45-12:00	João Reboleira -I.FILM: Multifunctional films for application in active and smart packages	
12:00-12:15	Luiza Kijewska - Depletion of methylene blue from muscles of rainbow trout (Oncorhynchus mykiss)	
Room 3 – Foo	od Processing – Chairperson: Michael Murkovic	
11:30-11:45	Antia Gonzalez Pereira - Extraction of phenolic compounds by high hydrostatic pressure from eight edible algae species from the North-West coast of Spain: Process modelling and optimization	
11:45-12:00	Elisabete Alexandre - Pomegranate peel extraction optimization and characterization and their inclusion in carrot juice improving their safety and quality	
Keynote 5 –	Chairperson: Baoru Yang	
12:30-13:00	Ricardo Calado - The geographic origin of seafood - Why should we care about traceability?	
13:00-14:30	Lunch break	
Plenary sess	sion 6 – Chairperson: Vieno Piironen	
14:30-15:10	Barbara Burlingame - Achieving sustainable diets: the fundamental role of the food chemist	
Keynote 6 – Chairperson: Małgorzata Starowicz		
15:10-15:40	Keynote 6 Richard FitzGerald - Marine protein-derived biofunctional peptides	
15:40	Closing ceremony and awards	
16:15	Farewell party	