ORAL PRESENTATIONS

Sunday, 23.4.2023

15:00-19:00

Registration

19:00

Welcome party

Monday, 24	4.4.2023				
		Moderators: N. Ogrinc, D. Heath			
9:00-9:45	A. Cifuentes	Foodomics study on the activity of bioactive compounds from plants, algae anda	Agrifood by-pro	ducts against Alzheimer d	lisease
9:45-10:30	S. Kelly	Food authentication using synthetic transformations coupled with Isotope Ratio Mass Spectrometry (FAST-IRMS)			
10:30-11:00	Coffee break				
FOOD AUTHENT	ICITY AND TRACEABILITY	Moderator: S. Kelly, T. Zuliani	QUALITY AND	SOURCES OF WATER	Moderator: H.A.J. Meijer, E. Heath
11:00-11:30	R. Frew	Implementing food origin verification systems	11:00-11:30	J. Vidmar	The potential of single particle inductively coupled plasma mass spectrometry for studying micro- and nanoscale particles in water and food
11:30-12:00	L. Bontempo	Compound-specific analysis for the verification of food authenticity	11:30-12:00	F. Scandellari	The signal of water: stable isotopes from rain to table
12:00-12:15	L. Strojnik	The authenticity of food flavourings and geographical traceability of food crops using a stable isotope methodology: synthesis of approach	12:00-12:15	H. Heinzen	Chemical safety of freshwater for human consumption and aquatic life which also is food
12:15-12:30	B. Torres-Cobos	Nuts about authentication: using a handful of isotopic tools to crack the hazelnut origin mystery	12:15-12:30	K. Anagnostopoulou	HRMS strategies for the target analysis and suspect screening of persistent and mobile substances in drinking, ground and surface water of Greece
12:30-12:45	S. Pianezze	GC-C-IRMS on single fatty acids and EA-IRMS on bulk lipid to study the fractionation processes in bovine organism and to detect differences in four matrices of Simmental cows fed on C3 and C4 diets	12:30-12:45	J. Moreno Rojas	Origin, implications, and management strategies for nitrate pollution in vulnerable zones in Andalusia
12:45-13:00	M. Horacek	Control of geographic origin of saffron using stable isotope analysis (IRMS)	12:45-13:00	P. Vreča	SLONIP – A Slovenian web-based interactive research platform on the water isotopes in precipitation
13:00-14:00	Lunch		13:00-14:00	Lunch	
FOOD AUTHENT	ICITY AND TRACEABILITY	Moderators: L. Bontempo, R. Frew	FOODOMICS, I	NUTRITION & HEALTH	Moderators: A. Cifuentes, U. Vrhovšek
FOOD AUTHENT 14:00-14:30	ICITY AND TRACEABILITY O. Donard	Moderators: L. Bontempo, R. Frew Novel analytical strategies using non-traditional isotopic and multi-isotopic dilution signatures for enhanced geographical food traceabilities	FOODOMICS, I	NUTRITION & HEALTH D. Lambropoulou	Moderators: A. Cifuentes, U. Vrhovšek SMA®t-EVOO-tools: providing insights into Greek extra virgin olive oil authenticity and geographical origin
		Novel analytical strategies using non-traditional isotopic and multi-isotopic			SMA®t-EVOO-tools: providing insights into Greek extra virgin olive oil
14:00-14:30	O. Donard	Novel analytical strategies using non-traditional isotopic and multi-isotopic dilution signatures for enhanced geographical food traceabilities	14:00-14:30	D. Lambropoulou	SMA®t-EVOO-tools: providing insights into Greek extra virgin olive oil authenticity and geographical origin "Olive oil polyphenols contribute to the protection of blood lipids from oxidative stress" and the fate of EC Reg. 432/2012: are the basic terms and the figures any
14:00-14:30 14:30-14:45	O. Donard M. Nikezić	Novel analytical strategies using non-traditional isotopic and multi-isotopic dilution signatures for enhanced geographical food traceabilities Linking multi-elemental and Sr isotopic data of milk, cheese, water, soil and forage Analytical challenges in determining the origin of olive oil using 87Sr/86Sr isotope	14:00-14:30 14:30-14:45	D. Lambropoulou B. Butinar	SMA®t-EVOO-tools: providing insights into Greek extra virgin olive oil authenticity and geographical origin "Olive oil polyphenols contribute to the protection of blood lipids from oxidative stress" and the fate of EC Reg. 432/2012: are the basic terms and the figures any clearer now? Fermented and non-fermented spirulina water and ethanol extracts antioxidant
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ORAL PRESENTATIONS

Tuesday, 25.4.2023		
FOOD QUALITY	AND SAFETY	Moderator: M. Horvat, L. Kourimska
9:00-9:30	Z. Pedrero Zayas	Hg And Se fate and interaction in fish: new insights and potential valorization of tuna by-products on sustainable aquafeeds
9:30-9:45	S. Petromelidou	A preliminary survey of PFAS in farmed marine shellfish in Greece. Do PFAS pose a threat to marine biota and human health?
9:45-10:00	M. Malý	Transfer of phytocannabinoids from dried plant to aqueous infusions: Is cannabis 'tea' safe?
10:00-10:15	P. Pongrac	Biofortifying sprouts with zinc by seed priming
10:15-10:30	A. Vehar	Quality characteristics of treated wastewater irrigated tomatoes
10:30-14:00	Coffee break & Degu	station
14:00-15:30	MERFISH Science Ca	afé
	M. Horvat	Mercury exposure and health effects: do we know enough about what is safe?
	J. Snoj Tratnik	Mercury exposure in prenatal life and neurodevelopment: findings from the Northern Adriatic birth cohort study
FOOD QUALITY	AND SAFETY	Moderators: U. Blaznik, D. Lambropoulou
15:30-15:45	M. Veronica Cesio	Decontamination studies on ready-to-eat- strawberries
15:45-16:00	A. Bogažalec Košir	Quantification goes digital – 10+ years of dPCR developments in GMO diagnostics
NEW ALTERNAT	IVE FOOD SOURCES	Moderators: U. Blaznik, D. Lambropoulou
16:00-16:15	L. Kourimska	Selected non-protein nitrogen compounds in insects for food and feed purposes
16:15-16:30	M. Kulma	Descriptive sensory analysis of edible insects in Czechia: tasty or nasty? and does size really matter?
16:30-16:45	L. Koronaiou	Multiresidue determination of current-used pesticides in edible insects by orbitrap HRMS target, suspect and non-target approaches
16:45-17:00	A. Macan Schönleben	Stable Isotope Ratio Analysis of H, C, N and S in edible insect samples from Europe, Asia and Africa
17:00-17:30	A. Lobnik	Optical sensors for food freshness and pesticides detection
19:00	Dinner	

Wednesday, 26.4.2023		
FOOD QUALITY AND SAFETY		Moderator: M. Horvat, L. Kourimska
9:00-9:45	N. Pirrone	Future perspectives in using earth observation data technologies for a sustainable agriculture in Europe: the HE partnership on agriculture of data
9:45-10:15	C. Zoani	Integrated Research Infrastructures' initiatives in support to food quality and safety and sustainability of agrifood systems
10:15-10:45	Coffee break	
RISK ASSESSMEN	T & MANAGEMENT	Moderators: C. Zoani, F. Scandellari
10:45-11:15	A. Schimmelmann	Can ionizing radiation cause isotopic fractionation of organic compounds?
11:15-11:45	U. Blaznik	National representative food consumption data (SI.Menu study) in dietary exposure and intake assessments
11:45-12:00	N. Waegeneers	Unravelling the exposure and risk to free glutamate form food additive and non-additive sources in Belgium
12:00-12:15	A. Alilovič	Total mercury and methylmercury levels in hair, blood, and urine of individuals following controlled intake of tuna fish
12:15-13:00	Closing ceremony	

POSTER PRESENTATIONS

Session 1: FOOD AUTHENTICITY AND TRACEABILITY

PRESENTING AUTHOR	TITLE
A. Roncone	PROMEDLIFE: Novel food products for the PROmotion of a MEDiterranean LIFEstyle and healthy diet
B. Pavlovič	Authentication and traceability of fish and seafood using stable isotope and multi-elemental approach
C. Terro	Foodtrack – Stable Isotope tool for determination of authenticity and traceability of food
C. Paraskevi	Oxygen and hydrogen isotopes in milk and cheese casein from DPO cheese products in Greece
D. Kocman	An integrated toolbox for improved verification and prevention of adulterations and non-compliances in organic and geographical indications food supply chain – THEROS project
H. Abderrazak	Stable isotope ratios and multi-element analysis for food authenticity and traceability in the framework of the TUNTWIN project
J. Masten Rutar	Combined isotopic and elemental composition analysis for the assessment of Spirulina food supplements authenticity
J. Siira	Strontium isotope ratios of Finnish strawberries and agricultural soils
K. Babič	Characterization of Slovenian pork meat based on stable isotope ratio, multi-elemental analysis and multivariate modelling approaches
L. Jelenko	Effects of storage conditions on carbon isotopic composition of volatile organic compounds
M. Tuthorn	Isotope fingerprints: addressing authenticity of fish oils by GC-MS-IRMS
M. Perini	Authentication and geographical characterisation of Italian grape musts through glucose and fructose carbon isotopic ratios determined by LC-IRMS
M. Kolar	Differentiation of the mineral content of Slovenian honeys by botanical origin using principal component analysis
N. Šibanc	The potential of stable isotope technique and microbiome characterisation in determining truffle aroma formation and the authentication of truffles
R. Skipityte	Stable isotope and fatty acid composition of organically and conventionally produced Lithuanian milk
S. Berail	Isotopic signatures of «non-traditional» elements for authenticity and geographical assessments of food and beverages
T. Zuliani	Characterisation of Slovenian honey

Session 2: FOOD SAFETY AND QUALITY

PRESENTING AUTHOR	TITLE
D. Kočar	Determination of 5-hydroxymethylfurfural in honey by high-performance liquid chromatography
E. Heath	Chemicals migrating from beer cans: non-targeted and suspect analysis
H. Chakroun	Heavy metal content in crops grown near former metal mining sites and potential risk to the local population
L. Fras Zemljič	Functionalisation of PLA foils using chitosan and plant extracts as a bilayer coating
L. Martello	A newly synthetised chitosan derivative as a promising sorbent for fungicides enrichment from wine samples
M. Viltres Portales	Selenium biofortification of wheat plants by foliar application of liposomes: selenium speciation by synchrotron radiation techniques.
M. Sterniša	The importance of experimental design for the evaluation of polymer nanocomposites as antimicrobial coatings on food contact surfaces
M. Sterniša	Simultaneous detection of antimicrobial and anti-Biofilm activity of novel compounds using salmonella infantis – improving data analytics through machine learning
S. Smole Možina	Effects of lavandula essential oil and pure phenolic compounds on invasion mechanisms and protein profile of <i>Campylobacter jejuni</i>
S. Marković	Cr speciation in wine and beer using HPLC-ICP-MS and enriched stable isotopic tracers of 50Cr(VI) and 53Cr(III)
T. Haifa Tlil	The risk of plants contamination by potentially toxic elements near mining sites
U. Gradišar Centa	Thermal and rheological properties of nut butter as a tool for assessing butter quality
Z. Giannioti	Determination of regulated and emerging mycotoxins in organic and conventional gluten-free flours by LC-MS/MS
Ž. Kolenc	Microbial communities on microplastics from nearshore seawater and Mediterranean mussels Mytilus galloprovincialis in Slovenia
Ž. Kolenc	Evaluation of naturally adhered bacteria on lettuce (Lactuca sativa) leaves.

Session 3: NEW ALTERNATIVE FOOD SOURCES

PRESENTING AUTHOR	TITLE
Nayyer Rehman	Motivation and barriers to the adoption of new alternative foods among European consumers

Session 4: NANOMATERIALS & NANOTECHNOLOGIES

PRESENTING AUTHOR	TITLE
D. Lambropoulou	Design of novel molecularly imprinted polymers as effective extraction media for selective determination of triazole fungicides in juice samples
M. Dekleva	Optimisation of experimental parameters for electrochemical detection of neonicotinoids in honey with modified screen-printed carbon electrodes
M. Kolar	Bio-active nanofibrous nonwovens as in-situ producers of hexanal
P. Leban	Studying the uptake and distribution of metal-doped nanoplastics in hydroponically grown tomato plants
R. Singh Chouhan	Two-dimensional magnetic nanomaterial: versatility and detection performance capabilities for toxic metal ions
U Gradišar Centa	Antimicrobial active polymer nanocomposite PVDF-HFP/PVP/MoO3 as a nanostructured coating for potential application on food contact surfaces

Session 5: FOODOMICS

PRESENTING AUTHOR	TITLE
A. Kovačič	Characterisation of the neuroactive compound profile in organic, conventional and processed tomatoes
M. Škrjanc	NMR profiling of Slovenian honey and wine

Session 7: NUTRITION & HEALTH

PRESENTING AUTHOR	TITLE
U. Kastelic Kovačič	Cave bear diet revealed by stable isotopes analysis

Session 8: RISK ASSESSMENT & MANAGEMENT

PRESENTING AUTHOR	TITLE
P. Klemenčič	HUMAN BIOMONITORING: Dietary cadmium exposure in the Slovenian population of children and adolescents

Session 9: METROLOGY IN FOOD

PRESENTING AUTHOR	TITLE
D. Potočnik	Metrology for stable isotope ratio measurements
E. Heath	Aerobic degradation of bisphenol A alternatives with activated sludge: kinetics and biotransformation products
H. A.J. Meijer	Combining Optical Spectroscopy and IRMS for the Measurement of $\delta^{\rm 18}{\rm O}$ and $\delta^{\rm 2}{\rm H}$ of water and Ethanol directly in wine
S. Berail	Geographical origin of mineral waters by Sr isotope ratio MC-ICP-MS: long-term stability of the signatures obtained by different purification procedures

Session 10: QUALITY AND SOURCES OF WATER

PRESENTING AUTHOR	TITLE
K. Žagar	δ^{18} O and δ^{2} H fingerprinting of tap water
M. Sánchez-Parra	Incidence of nitrate contamination and origin in two water systems of southern Spain