Assuring the integrity of the food chain: Fighting food fraud



6-7 April 2016 • Prague, Czech Republic

**FOODINTEGRITY 2016** 

# **PROGRAM**

# Assuring the integrity of the food chain: FIGHTING FOOD FRAUD FOODINTEGRITY 2016

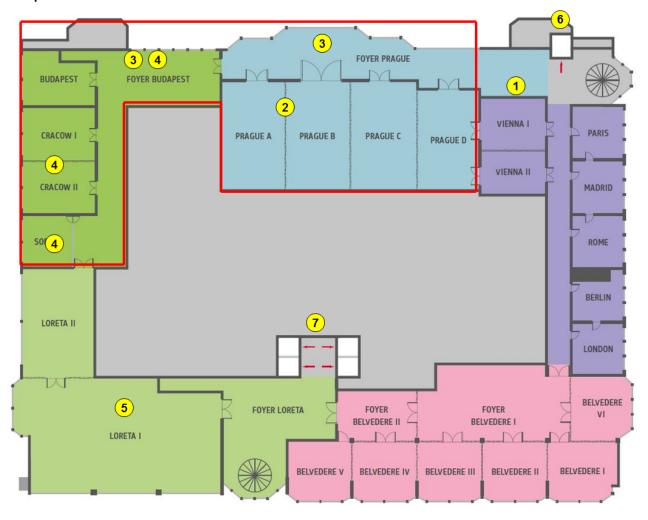
April 6-7, 2016

Diplomat Hotel Conference Centre • PRAGUE • CZECH REPUBLIC



#### **FOODINTEGRITY 2016 Venue**

# Diplomat Hotel Conference Centre



Area bounded by red line is devoted to the FOODINTEGRITY 2016 conference (lecture halls, exhibition and poster area).

- 1: Registration desk
- 2: Conference halls, vendor seminars and parallel workshops
- 3: Exhibition area & Coffee breaks
- 4: Exhibition area & Demonstration activities & Poster area & Coffee breaks
- **5:** Conference restaurant (lunches)
- **6:** Lift to the exhibition area
- 7: Lifts to the hotel rooms

# **FOODINTEGRITY 2016 - PROGRAM AT A GLANCE**

Time / Date	WEDNESDAY		Time / Date	THURSDAY	
				April 7, 2016	
8:00-9:00	Registration for the FOODINTEGRITY 2016 conference	EGRITY 2016 conference	8:00-9:00	Registration for the FOODINTEGRITY 2016 workshops	ITEGRITY 2016 workshops
9:00-9:20			9:00-10:30	Session 6:	Session 8:
	Introduction to the FoodIntegrity	rity		Workshop: Food Crime,	Workshop: Industrial
9:20-10:20	Plenary Session:			occurrence, motivations and mitigations (part !)	perspective for strategies applied for assuring food
	Integrity along the food chain: Setting the	:: Setting the scene			authenticity(part I)
10:20-10:50	Coffee break / Poster session / Exhibition	/ Exhibition	10:30-11:00	Coffee break / Poster session / Exhibition	n / Exhibition
10:50-12:45	Session 1:		11:00-13:00	Session 7:	Session 9:
	Gaps in current research on food author finded by the Food precript on topics	Gaps in current research on food authenticity: New projects		Workshop: Food Crime,	Workshop: Industrial
	(i) Non targeted analysis			and mitigations (part II)	applied for assuring food
	(ii) Complex foods			,	authenticity(part II)
	(iii) Transparency along the food chain	d chain			
	(iv) Rapid methods				
12:45-14:30	Lunch /		13:00-14:00	Lunch	
	Poster session / Exhibition / Vendor seminars /	endor seminars /			
	Demonstration of the approaches for food authentication developed by FoodIntegrity project	ches for food authentication project			
14:30-16:00	Session 2:	Session 4:			
	Citizen and consumer	Analytical tools for food			
	science approaches to food integrity	authentication			
16:00-16:30	Coffee break / Poster session / Exhibition	/ Exhibition			
16:30-18:00	Session 3:	Session 5:			
	Tools for food integrity	Authenticity of herbs and			
	assessment	spices			
18:00-20:00					
20:00-23:00	Conference dinner				
	Poster award ceremony				

Coffee breaks will be served in the conference area; lunches will be served in the hotel restaurant Loreta.

April 6, 2016 ORAL SESSIONS

# TUESDAY, April 5, 2016

16:00-18:00 Registration for the FOODINTEGRITY 2016 conference

		WEDNESDAY, April 6, 2016
8:00-9:00		Registration for the FOODINTEGRITY 2016 conference
9:00-9:20 Prague A-D halls		<b>OPENING of the conference and WELCOME</b> UCT Prague representative Paul Brereton & Jana Hajslova, Chairs of the FOODINTEGRITY 2016 conference
	L1	INTRODUCTION TO THE FOODINTEGRITY Announcement of the next FOODINTEGRITY conference in 2017 Paul Brereton, Fera Science Ltd, York, UK
9:20-10:20 Prague A-D halls		PLENARY SESSION: Integrity along the food chain: Setting the scene Chairpersons: Chris Elliott (QUB) & Michele Lees (Eurofins)
9:20-9:40	L2	THE IMPACT OF FOOD FRAUD ON CHINA: RISKS AND PREVENTION STRATEGIES  Wu Yongning, China National Center for Food Safety Risk Assessment (CFSA), Beijing, China
9:40-10:00	L3	FOOD AUTHENTICITY: CONSUMER EXPECTATIONS (AND DISAPPOINTMENTS) Sue Davies, Which?, London, UK
10:00-10:20	L4	NON-TARGETED METHODS: ADVANCES AND CHALLENGES AHEAD Jeff Moore, US Pharmacopeia, Rockville, United States of America
10:20-10:50 Conference area		Coffee Break / Exhibition / Poster session
<b>10:50-12:45</b> Prague A-D halls		SESSION 1: Gaps in current research on food authenticity: New projects funded by FoodIntegrity Chairpersons: Paul Brereton (Fera Science Ltd) & Saskia van Ruth (WUR)
10:50-12:45	L5-L12	8 presentations on topics on: (i) Non targeted analysis (ii) Complex foods (iii) Transparency along the food chain (iv) Rapid methods
		Discussion
12:45-14:30 Hotel restaurant Loreta		Lunch / Poster session / Exhibition / Vendor seminars / Demonstration of the approaches developed by FoodIntegrity for food authentication

ORAL SESSIONS April 6, 2016

# WEDNESDAY, April 6, 2016

13:30-14:20 **VENDOR SEMINARS** 

Prague A&B hall Orbitrap technology: the new frontiers in food profiling

Thermo Fisher SCIENTIFIC

Prague C&D

Ensuring the authenticity of food - New advances in LC-MS/MS workflows bringing routine closer than ever



13:30-14:30 Cracow &

Sophia halls

**POSTER SESSION** 

April 6, 2016 ORAL SESSIONS

### WEDNESDAY, April 6, 2016

13:30-14:30 Foyer Budapest Demonstration of the approaches developed by FoodIntegrity for food authentication

#### **HOW TO GET INVOLVED?**

Do you wish to receive information about news, progress and events related to the FoodIntegrity project?

Please register for the project COMMUNICATION on www.foodintegrity.eu/ page Contact us

**FoodIntegrity** is a European five-year project, which will draw from a well of experience consisting of 38 partners in the EU, China and Iceland to tackle issues surround the authenticity of food. The project will provide a focal point for the sharing and exploitation of European research aimed at protecting the integrity of food production in Europe.

The aim of the FoodIntegrity demonstration is to provide you with a brief update on some of the progress on this multi-faceted project and let you know how you can get involved. We hope you find it useful.

You can join us and discuss with FoodIntegrity experts the latest developments and strategies in the field of food integrity - safety, quality, authenticity and traceability.

#### WHAT CAN YOU LEARN?



FoodIntegrity Knowledge base: an information resource on food authenticity, description of the database and progress achieved so far

To bring together available information on suitable analytical tools and associated reference data for the detection of food fraud in a Knowledge Base, to facilitate access to this information for industry, regulatory authorities and research organisations



Identifying the gaps in current research on food authenticity



Industrial perspective of relevant food chains vulnerabilities vs Current analytical methods and technologies that can be applied

To bring together available data on industrially exploited analytical tools for detection of food fraud, and identify reliable indicators/markers to use for horizon scanning of possible fraud events



Chinese consumer attitudes to food fraud, short description of the survey and its outcomes

To examine Chinese consumers' attitudes and perceptions towards the safety and integrity of imported European foods



Survey of the Olive oil sector, description of the survey and its outcomes

Sensory analysis of olive oils: Do you recognise adulterated product?



Investigation of available and potential future technologies for authentication of branded spirits and/or categories

"Hands on" demonstration of authentication of spirit drinks



How to reduce product misdescription in the seafood sector?

Fish sampling in restaurants: help us to recognise whether you eat what you have ordered!



Do you wish to participate in the FoodIntegrity events?

Do you wish to be trained in food authentication strategies?

Join us and learn more on opportunities we offer!

ORAL SESSIONS April 6, 2016

		WEDNESDAY, April 6, 2016
		SESSIONS 2 & 4, in parallel
<b>14:30-16:00</b> Prague A&B hall		SESSION 2: Citizen and consumer science approaches to food integrity Chairpersons: Sue Davies (Which?) & Moira Dean (QUB)
14:30-15:00	L13	EUROPEAN FOOD AUTHENTICITY AND CHINESE CONSUMERS. REDUCING CONCERNS ABOUT FOOD SAFETY Lynn J. Frewer, Newcastle University, Newcastle Upon Tyne, UK
15:00-15:25	L14	AN OVERVIEW OF THE USE OF CITIZEN SCIENCE, AND LESSONS FROM THE ENVIRONMENT SECTOR IN THE UK Ralph Blaney, WRc, Swindon, UK
15:25-15:50	L15	CITIZEN SCIENCE APPROACH TO IDENTIFYING MISLABELLING IN THE FISH SECTOR: STUDY DESIGN AND POTENTIAL IMPACT IN RESTAURANTS  Miguel Angel Pardo, AZTI, Derio, Spain
15:50-16:00		Discussion - implications for the food sector?
16:00-16:30 Conference area		Coffee Break / Exhibition / Poster session
		SESSIONS 3 & 5, in parallel
<b>16:30-18:00</b> Prague A&B hall		SESSION 3: Tools for food integrity assessment Chairpersons: Petter Olsen (Nofima) & Christophe Cavin (Nestle)
16:30-16:50	L16	CONCEPTUAL FRAMEWORK FOR AN ONLINE EARLY WARNING SYSTEM FOR FOOD FRAUD DETECTION Vahid Mojtahed, Fera Science Ltd, York, UK
16:50-17:10	L17	DEVELOPMENT OF EARLY WARNING SYSTEMS TO DETECT, PREDICT AND ASSESS FOOD FRAUD  Hans Marvin, RIKILT Wageningen UR, The Netherlands
17:10-17:30	L18	TRACEABILITY AND BRAND PROTECTION  Espen Braathe, Tracetracker, Oslo, Norway
17:30-17:50	L19	CHECK ORGANIC: ENSURING THE INTEGRITY OF THE ORGANIC FOOD SUPPLY CHAIN Gerald Herrmann, Organic Services GmbH, Tutzing, Germany
17:50-18:00		Discussion
20:00-23:00		Conference dinner Poster award ceremony Prague downtown

April 6, 2016 ORAL SESSIONS

		WEDNESDAY, April 6, 2016
		SESSIONS 2 & 4, in parallel
<b>14:30-16:00</b> Prague C&D hall		SESSION 4: Analytical tools for food authentication Chairpersons: Michele Suman (Barilla) & Begoña Perez Villarreal (AZTI)
14:30-14:50	L20	EUROPEAN KNOWLEDGEBASE ON ANALYTICAL METHODOLOGY AND DATABASES FOR FOOD AUTHENTICITY Michele Lees, Eurofins Analytics France, Nantes, France
14:50-15:10	L21	EXPANDING ANALYTICAL CAPABILITIES WITHIN SPIRIT DRINKS AUTHENTICATION Ian Goodall, The Scotch Whisky Research Institute, Edinburgh, UK
15:10-15:30	L22	EMERGING PORTABLE SPECTROSCOPICS FOR NON-DESTRUCTIVE FOOD AUTHENTICATION  Yannick Weesepoel, RIKILT - Wageningen UR, The Netherlands
15:30-15:50	L23	AUTHENTICATION OF ORGANIC FRUITS BY THE ANALYSIS OF THEIR MICROBIAL COMMUNITIES: HOW TO PREVENT ORGANIC FRUIT FRAUD? APPLICATION OF A ROBUST APPROACH Didier Montet, CIRAD-UMR Qualisud, Montpellier Cedex 5, France
15:50-16:00		Discussion
16:00-16:30 Conference area		Coffee Break / Exhibition / Poster session
		SESSIONS 3 & 5, in parallel
<b>16:30-18:00</b> Prague C&D hall		SESSION 5: Authenticity of herbs and spices Chairpersons: Carsten Fauhl-Hassek (BfR) & Rebecca Kokkinofta (SGL)
16:30-16:50	L24	AUTHENTICATION OF SPICES AND HERBS Carsten Fauhl-Hassek, Federal Institute for Risk Assessment, Berlin, Germany
16:50-17:10	L25	A SENSE OF 'SPICED': PEPPER AND NUTMEG AUTHENTICATION Saskia van Ruth, Wageningen UR, The Netherlands
17:10-17:30	L26	HIGH RESOLUTION MASS SPECTROMETRY BASED METABOLOMIC FINGERPRINTING, AN EFFICIENT TOOL TO DETECT FRAUD ON HERBS AND SPICES: CASE STUDIES  Jana Hajslova, University of Chemistry and Technology, Prague, Czech Republic
17:30-17:50	L27	ADULTERATION OF HERBS: THE OREGANO STORY Simon Haughey, Institute for Global Food Security, Queen's University, Belfast, UK
17:50-18:00		Discussion
20:00-23:00		Conference dinner Poster award ceremony

Prague downtown

ORAL SESSIONS April 6, 2016

#### Session: Authenticity of herbs and spices

Spices and herbs, condiments, are contained in almost every processed food, including ready-to-eat products, and are used in restaurants and by the consumer for flavouring purposes of food. The EU market is one of the largest markets for spices and herbs in the world. The spices most often consumed in the EU are pepper, paprika and pimento; whereas the most often consumed herbs are thyme and oregano. Only a few spices are produced within the EU - mainly paprika of which the main producers are Hungary and Romania.

Herbs and particularly spices have always been highly-priced commodities and are therefore subject to several adulterations. By economic reasons, fraudsters are mixing cheap material with the high-priced spices. Ungrounded spices are rarely falsified, but confusion with similar plants or fruits is possible. Grounded spices can easily be falsified, e.g. by colouring with forbidden dying agents such as lead oxide or Sudan red or by stretching the products with filling material like sand or starch. The history of fraud in relation to spices and herbs is long and ongoing, as new examples such as the falsification of oregano with olive leaves most recently observed in UK show.

The authenticity testing of spices and herbs was and still is therefore subject of several European research projects and other studies. Because the classical approaches for assessing authenticity suffer from a number of disadvantages, namely, the increasing number of analytes, which must be introduced in dedicated test procedures, the limited knowledge of the "normal" composition of materials and most importantly their incapacity to detect unforeseen agents, one focus of current research activities points on non-targeted analytical techniques (fingerprinting techniques) to investigate any kind of distinctive features. The workshop will present results related to new authentication approaches to condiments and will provide an insight into future, rapid and cost-effective, approaches for quality and safety control of spices and herbs.

April 7, 2016 WORKSHOPS

April 7, 2016		WORKSHOPS
		THURSDAY, April 7, 2016
8:00-9:00		Registration for the FOODINTEGRITY 2016 workshops
		SESSIONS 6 & 8, in parallel
<b>9:00-10:30</b> Prague A&B hall		SESSION 6: Workshop on Food Crime, occurrence, motivations and mitigations (part I) Moderator: Jon Spencer, University of Manchester, UK
9:00-9:20	L28	THE MODELING OF FOOD SUPPLY TO ASSIST FRAUD DETECTION Cecilia Flores & David Allen, University of Manchester, Manchester, UK
9:20-9:40	L29	CORPORATE CRIME IN THE MEAT SUPPLY CHAIN Wim Huisman, VU University, Amsterdam, the Netherlands
9:40-10:00	L30	DUTCH PIG FARMERS: NON-COMPLIANCE IN CONTEXT Fiore Geelhoed, VU University, Amsterdam, the Netherlands
10:00-10:20	L31	BRIDGING THE GAP - A CRIMINAL INTELLIGENCE PERSPECTIVE ON FOOD CRIME  Andy Morling, Food Standards Agency: England and Wales, UK
10:20-10:30		Discussion
10:30-11:00 Conference area		Coffee Break / Exhibition / Poster session
		SESSIONS 7 & 9, in parallel
<b>11:00-13:00</b> Prague A&B hall		SESSION 7: Workshop on Food Crime, occurrence, motivations and mitigations (part II) Moderator: Andy Morling, Food Standards Agency, UK
11:00-11:15	L32	FOOD FRAUD PREVENTION: POLICY, STRATEGY, AND DECISION-MAKING - IMPLEMENTATION STEPS FOR A GOVERNMENT AGENCY OR INDUSTRY - INCLUDING TRANSLATION TO CHINESE John Spink, Michigan State University, USA
11:15-11:30	L33	CRIMES AND HARMS IN THE MEAT INDUSTRY Loes Kersten, KU Leuven, Leuven, Belgium
11:30-11:45	L34	CRIMINOLOGICAL APPROACHES TO FOOD FRAUD  Jon Spencer, University of Manchester, Manchester, UK
11:45-12:00	L35	THE ROLE OF THE REGULATOR  Peter Whelan, Food Safety Authority: Ireland, Ireland
12:00-13:00		Discussion
13:00-14:00 Hotel restaurant Loreta		Lunch

WORKSHOPS April 7, 2016

#### Workshop: Food Crime, occurrence, motivations and mitigations

#### Workshop Aims and Objectives

There has been a significant increase in the social science research into Food Crime over the past four or five years and it brings together diverse disciplines. The science of fraud detection has relied on new methods of testing and increased levels of audit. This scientific work has a social dimension and the development of a theoretical criminological approach to understanding food crime is innovative and exciting. However, the detection food fraud happens 'after the event' of fraud or adulteration, testing identifies the adulterated product.

The aim of this workshop is to bring together criminologists and social scientists working in the area of food crime with those working in the food industry to explore the activity of food crime from different perspectives.

The objectives of the workshop are to:

- i. Provide a number of different papers that discuss the issue of food crime from a range of perspectives and contribute to the developing theoretical framework to aid our understanding of food crime
- ii. To explore the different perspectives of the Social Sciences and how they enhance our understanding of food crime
- iii. Encourage and aid discussion and identify the emerging issues in the area

#### Workshop Format

The workshop will be structured around two elements. First, there will be a series of short presentations that will consider the 'state of the art' of what we know about food crime. These papers will draw on current research and practice. There will be time for discussion of each presentation. There will be a discussant for the session that will assist in identifying the knowledge gaps and stimulate discussion as to how these gaps might be addressed.

The second part of the workshop will focus on developing scenarios of future food crime issues. This will be structured using a roundtable of experts drawn from industry, academia and regulation to consider future food crime scenarios. This approach begins to address one of the key issues in the food crime area, which is the ubiquity of food frauds and adulteration. Scenario planning may assist us in further understanding the interaction between a numbers of competing dynamics within the food crime area that will aid prevention.

April 7, 2016 WORKSHOPS

April 7, 2016		WORKSHOP
		THURSDAY, April 7, 2016
8:00-9:00		Registration for the FOODINTEGRITY 2016 workshops
		SESSIONS 6 & 8, in parallel
<b>9:00-10:30</b> Prague C&D hall		SESSION 8: Workshop on Industrial perspective for strategies applied for assuring food authenticity (part I) How to improve protection from food frauds and adulterations Moderator: Michele Suman, Barilla, Parma, Italy
9:00-9:10	L36	OVERVIEW OF CURRENT RESEARCH AND PRACTICAL OUTCOMES OF FOODINTEGRITY PROJECT Michele Suman, Barilla SpA - Advanced Laboratory Research, Parma, Italy
9:10-9:20	L37	USING THE FOODINTEGRITY NETWORK & THE FOOD INTEGRITY KNOWLEDGE BASE Michele Lees, Eurofins Analytics France, Nantes, France
9:20-9:30	L38	RAPID METHODS PERSPECTIVES (FOCUS ON THE SPIRIT DRINK SECTOR) Shona Glancy, The Scotch Whisky Research Institute, Edinburgh, UK
9:30-9:40	L39	Cancelled
9:40-9:50	L40	1H-NMR NON-TARGETED DETECTION OF ADULTERANTS IN VEGETABLE OIL James Donarski, Fera Science Ltd, York, UK
9:50-10:00	L41	SPECTROSCOPIC TECHNOLOGIES AND APPLICATIONS FOR AUTHENTICATION & ANTI-COUNTERFEITING  Neville Davies, Ocean Optics, Duiven, the Netherlands
10:00-10:10	L42	INDUSTRIAL SELF-CONTROL IN THE FRUIT JUICE INDUSTRY: A MODEL FOR OTHER FOOD INDUSTRY SECTORS  Aintzane Esturo, SGF International, Nieder-Olm, Germany
10:10-10:20	L43	HONEY IDENTITY: NEW APPROACHES TO THE BOTANICAL ORIGIN OF HONEY BY NEXT GENERATION SEQUENCING  Maria Teresa Barreto Crespo, iBET, Oeiras, Portugal
10:20-10:30	L44	THE USE OF STABLE ISOTOPES FOR MONITORING OF PRODUCTS CLAIMING REGIONAL ORIGIN. A PROOF OF CONCEPT Markus Boner, Agroisolab GmbH, Jülich, Germany
10:30-11:00 Conference area		Coffee Break / Exhibition / Poster session

WORKSHOPS April 7, 2016

<b>SESSIONS</b>	7	&	9.	in	paral	lel
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<b>11:00-13:00</b> Prague C&D hall	SESSION 9: Workshop on Industrial perspective for strategies applied for assuring food authenticity (part II)  How to improve protection from food frauds and adulterations Moderator: Michele Suman, Barilla, Parma, Italy
11:00-13:00	An interactive team working exercise among the participants to address future scenarios related to:  (i) Fragmentation of the chains,  (ii) Effective rapid screening approaches,  (iii) Confirmatory analytical strategies,  (iv) Assessments and prevention models

13:00-14:00 Lunch Hotel restaurant Loreta

#### **Workshop: Industrial Applications for Assuring Food Authenticity**

(HOW TO IMPROVE PROTECTION FROM FOOD FRAUDS AND ADULTERATIONS)

#### Workshop Aims and Objectives

European food is of prime importance to the European Agri-food economy.

The authenticity of European food and the integrity of supply chains is under constant threat from fraudulent activities.

The topic of assuring the integrity of the food chain brings together producers, distributors, processors, retailers, regulators, researchers, enforcers and consumers.

The present workshop will be an opportunity for all these stakeholders to raise their awareness of food authenticity issues and get together in order to achieve the following objectives:

- i. Share common relevant issues combined with best practices, enlarging the existing network and boosting exchange and collaboration
- ii. Allow open and constructive discussions on how current research is expected to develop practical mitigation solutions for companies to use to protect themselves from food fraud
- iii. Review all the relevant activities and tools that FoodIntegrity project has already made available and/or is developing for the industry (e.g. FI Network, FI Knowledge Base,...)

#### Workshop Format

The first part of the workshop will be devoted to have a series of short talks that will consider the 'state of the art' achieved from the FoodIntegrity project on the industrial side, together with stimulus and good practices provided directly from industrial player presenters from different points of the food chain.

At the end of each presentation, a moderator of the session will assist in identifying the knowledge gaps and stimulate discussion as to how these gaps might be addressed.

The second part of the workshop will be dedicated to an interactive team working exercise among the participants to address future scenarios related to: (i) fragmentation of the chains, (ii) effective rapid screening approaches, (iii) confirmatory analytical strategies, (iv) assessments and prevention models.

April 6-7, 2016 POSTER SESSION

## **POSTER SESSION**

# WEDNESDAY - THURSDAY, April 6-7, 2016

13:00-14:30 POSTER SESSION (Wedn	nesday, A	pril 6,	2016)
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Posters are displayed during the whole conference.

- P1 DETERMINATION OF PRIORITIES BY THE MANUFACTURER FOR FRAUD PROCESSED MEAT PRODUCTS, IN TURKEY

  Alev Akpinar Borazan

  METROGOOD BI: A NEW PANIEU PESEAPCH INERASTRUCTURE TO SUPPORT FOOD
- P2 METROFOOD-RI: A NEW PAN-EU RESEARCH INFRASTRUCTURE TO SUPPORT FOOD INTEGRITY
  - Giovanna Zappa, <u>Claudia Zoani</u>, Isabel Castanheira
- P3 ADVANCES IN TOOLS TO SUPPORT FOOD FRAUD VULNERABILITY ASSESSMENT AND RISK MITIGATION
  - Karen Everstine, <u>Jeffrey Moore</u>, Henry Chin, Shaun Kennedy
- P4 FOOD FRAUD PREVENTION GUIDE FOR AGRIFOOD SECTOR. AN INTEGRITY ASSESSMENT TOOL FOR APPLIED STRATEGIES IN ORDER TO ASSURE FOOD AUTHENTICITY

  Catherine Vidal, Gloria Cugat, Adriana Fernandez, Montserrat Sibera, Rosa Maria Biel
- P5 MULTIDISCIPLINARY APPROACH FOR FOOD FRAUD DETECTION
  Leo van Raamsdonk
- P6 THE VIRTUAL FOOD AUTHENTICITY NETWORK

  Selvarani Elahi, Stephen Ellison, Mark Woolfe, Michelle McQuillan, Lucy Foster, Sophie
  Rollinson
- P7 ARE THEY AT RISK AND DO THEY KNOW? FOOD SAFETY KNOWLEDGE OF POULTY MEAT CONSUMERS IN SLOVENIA

  Sonja Smole Možina, Meta Sterniša, Špela Zorko, Sonja Levstek, Andreja Kukec, Mojca Jevšnik, Peter Raspor
- P8 BIG DATA FROM A SMALL LAB: COMPLETE HOLISTIC/NON TARGETED/FINGERPRINTING OVERVIEW USING ALTERNATIVE INSTRUMENTAL APPROACH FOR FOOD AUTHENTICATION AND FRAUD PREVENTION

  Roberto Piro
- P9 MAPPING THE BEEF SUPPLY CHAIN FROM FARM TO FORK FOR TRANSPARENCY Stephanie Brooks, Christine Walsh, Michelle Spence, Christopher Elliott, Moira Dean
- P10 REAL-TIME PCR FOR SALMON IDENTIFICATION
  Amanda Naaum, Robert Hanner
- P11 APPLICATIONS OF VIBRATIONAL SPECTROSCOPY FOR FEED SAFETY CONTROL:
  DETECTION OF ANIMAL ORIGIN MATERIAL BY NIR AND RAMAN SPECTROSCOPY
  Luisa Mandrile, Giuseppina Amato, Daniela Marchis, Gianmario Martra, Andrea Mario Rossi
- P12 PEPTIDE PROFILES AS NOVEL AND HIGHLY SENSITIVE MARKERS FOR THE HEAT TREATMENT OF MILK
  - Sevim Dalabasmaz, Monika Pischetsrieder
- P13 GC-MS DETERMINATION OF CYCLOPROPANE FATTY ACIDS: A NEW TOOL AGAINST PARMIGIANO REGGIANO COUNTERFEIT
  - <u>Angela Marseglia</u>, Marco Nocetti, Veronica Lolli, Gerardo Palla, Augusta Caligiani
- P14 MINIATURIZED NIRS FOR NON-DESTRUCTIVE AUTHENTICATION OF PACKAGED CHICKEN FILLETS
  - Yannick Weesepoel, Saskia van Ruth
- P15 VALIDATION CRITERIA FOR SIMULTANEOUS MULTI COMPONENT QUANTITATIVE NMR
  ANALYSIS AND NMR FINGERPRINTING METHODS

  Vito Gallo, Piero Mastrorilli, Mario Latronico, Pasquale Scapicchio, Nicola Intini, Antonino Rizzuti

POSTER SESSION April 6-7, 2016

- P16 NEW IMMUNOASSAYS FOR MAJOR MILK FRAUD
  - Willem Haasnoot, Lucia Streppel, Ana Frangolho, Claus Schafer-Nielsen, Sotirios Kakabakos
- P17 FREE RANGE FRAUD: HOW MODERN ANALYTICAL TECHNIQUES CAN BE USED IN CONJUNCTION WITH AGRICULTURAL EXPERTISE TO AUTHENTICATE FREE RANGE AND ORGANIC EGG PRODUCTION
  - Alison Johnson, Robert Posey
- P18 SCREENING AND IDENTIFICATION OF FOOD SUPPLEMENT ADULTERANTS USING LIQUID CHROMATOGRAPHY WITH HIGH-RESOLUTION MASS SPECTROMETRY
  - Katerina Mastovska, Lukas Vaclavik, John R. Schmitz, Jean-Francois Halbardier
- P19 FRAUD DETECTION IN MARINE PRODUCTS WITH MOLECULAR ANALYSIS TECHNIQUES. A CASE STUDY IN ELASMOBRANCHII
  - Anastasia Imsiridou, Styliani Maradidou, Dimitrios Loukovitis, George Minos
- P20 TACKLING FISH FRAUDS: STRATEGIES TO DISTINGUISH FRESH FROM FROZEN FISHERY PRODUCTS
  - <u>Elena Bozzetta</u>, Serena Meistro, Mario Botta, Daniela Meloni, Fabio Olivo , Marzia Pezzolato, Pierluigi Acutis, Elisa Baioni
- P21 C-SNIF-NMR A COMPLEMENTARY TOOL IN FOOD AUTHENTICITY CONTROL Freddy Thomas, Eric Jamin, Michele Lees
- P22 SENSITIVE DETECTION OF ECONOMICALLY MOTIVATED ADULTERATION OF HONEY BY BULK AND COMPOUND SPECIFIC C ISOTOPE RATIO MASS SPECTROMETRY USING LIQUID CHROMATOGRAPHY AND ELEMENTAL ANALYSIS INLET DEVICES

  Jens Griep-Raming, Dieter Juchelka, Andreas Hilkert
- P23 HONEY-PROFILING™ TAKING AUTHENTICITY TESTING TO THE NEXT LEVEL

  Arne Duebecke, Jane Missler, Cord Luellmann, Gudrun Beckh
- P24 THE USE OF THE SR/SR ISOTOPE RATIO MASS SPECTROMETRY (TIMS) TO AUTHENTICATE TOMATO ORIGIN: A CASE STUDY

  Claudio Baffi, Pier Renato Trincherini
- P25 FATTY ACID COMPOSITION AND δC ISOTOPIC RATIO CHARACTERIZATION OF PUMPKIN SEED OIL
  - Tanja Potočnik, Iztok Jože Košir, Doris Potočnik, Nives Ogrinc
- P26 PDO PARMIGIANO REGGIANO CHEESE: NON TARGET MASS SPECTROMETRY, CHEMOMETRICS AND THE FUTURE PATH TO DETECT FRAUD
  - Emiliano De Dominicis, Mario Dante, Bert Popping, Marco Nocetti
- P27 STABLE ISOTOPES AS TRACERS OF GEOGRAPHIC ORIGIN OF PLANT SEEDS AND OILS

  Cristina Máguas, Rodrigo Maia, Carla Isabel Rodrigues, Tatiana Gomes, Cristina Antunes,
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