

Monday, 28 November 2016

12:00–13:00

Registration

Lunch snack will be provided

Opening Ceremony

13:00–13:10

Welcome and Symposium Opening

Reiner Wittkowski, Vice President of the Federal Institute for Risk Assessment, Germany

13:10–13:20

Opening Remarks

Carsten Fauhl-Hassek, Federal Institute for Risk Assessment, Germany

Session I: Introductory Talks

Chairs: Vincent Baeten, Carsten Fauhl-Hassek

13:20–13:50

The Importance of Standardised Non-Targeted Methods in Food Authentication

Michèle Lees, Independent Expert, France

13:50–14:20

Standardisation of Non-Targeted Approaches

Jeffrey Moore, U.S. Pharmacopeial Convention, USA

14:20–14:50

Developing an Efficient Infrastructure, Standards and Dataflow for Metabolomics

Christoph Steinbeck, European Bioinformatics Institute, UK

14:50–15:00

Introduction to FoodIntegrity

Paul Brereton, Fera Science Ltd., UK

15:00–15:30 Coffee break

Session II: Standardisation of Analytical Methods

Chairs: Christoph Steinbeck, Michael Dickinson

15:30–16:00

Challenges in Infrared Spectroscopy Based Non-Targeted Analysis

Vincent Baeten, Walloon Agricultural Research Centre, Belgium

16:00–16:30

Challenges in Nuclear Magnetic Resonance Spectroscopy Based Non-Targeted Analysis

Freddy Thomas, Eurofins Analytics, France

16:30–17:00

Challenges in Mass Spectrometry Based Non-Targeted Analysis

Milena Stránská Zachariášová, University of Chemistry and Technology, Czech Republic

17:00–18:00

Roundtable Discussion Session I and II Speakers

18:00 Dinner (at the venue)

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Session III: Standardisation of Statistical Analysis

Chairs: Franz Ulberth (European Commission's Joint Research Centre, Belgium), Martin Alewijn

09:00–09:30

Multivariate Pattern Recognition for Chemometrics

Richard Brereton, University of Bristol, UK

09:30–10:00

One-Class vs. Multiclass Classification Strategies for Food Authentication Problems

Paolo Oliveri, University of Genova, Italy

10:00–10:30

Validation of Chemometric Models and Aspects of Data Fusion

Federico Marini, Sapienza University of Rome, Italy

10:30–11:00 Coffee break

Session IV: Approaches towards Validation and Standardisation

Chairs: Michèle Lees, Paolo Oliveri

11:00–11:30

Validation of Multivariate Classification Methods

Martin Alewijn, RIKILT Wageningen UR, The Netherlands

11:30–12:00

Validation of Mass Spectrometry Based Methods and Routine Quality Control

Michael Dickinson, Fera Science Ltd., UK

12:00–12:15

INTELLtrace: a Food Integrity Procurement for the Standardisation and Harmonisation of Untargeted Methods

Cristiano Garino, Università del Piemonte Orientale, Italy

12:15–13:15

Roundtable Discussion Session III and IV Speakers

13:15–13:30

Farewell

Carsten Fauhl-Hassek, Federal Institute for Risk Assessment, Germany

In cooperation with:

The five-year project FoodIntegrity aims to ensure the integrity of the European food chain and to provide assurance to consumers and other stakeholders about the safety, authenticity and quality of European food. The associated partners involve regulators, consumers, academia and food industry. www.foodintegrity.eu



International Symposium on “Standardisation of Non-Targeted Methods for Food Authentication”

Authenticity testing of food and feed – the detection of fraudulent or deceptive practices such as substitution of ingredients, adulteration and incorrect origin labelling – are important and challenging issues food surveillance and industry are confronted with. Therefore, research has been conducted worldwide on the development of rapid analytical approaches and procedures that can help to meet not only current threats but being advanced enough to address emerging challenges e.g. unknown adulterants. A recent strategy which is successfully applied for screening and authenticity testing of large sample sets is based on non-targeted analysis using at least one analytical technique, either spectroscopic or spectrometric, for data acquisition and subsequently one or more chemometric methods for multivariate statistical evaluation. A lot of effort has been directed in the development of analytical procedures often in research and in feasibility studies, whereas important issues such as standardisation and validation are not completely fit for purpose yet. That might be one reason why adaption of the procedure from research into routine application and food surveillance is only processing slowly.

The symposium will provide a platform for promoting scientific exchange and discussing open questions in the research field of food and feed authentication using non-targeted methods. The exchangeability of data between laboratories, validation and standardisation of analytical methods and statistical models, as well as system challenges and quality assurance measures are among the key issues that require closer investigation and which will be addressed.

Venue:

German Federal Institute for Risk Assessment
Lecture theatre
Diedersdorfer Weg 1, 12277 Berlin (Marienfelde)

Directions:
www.bfr.bund.de/en/location_marienfelde-5533.html

Destination stop (www.bahn.de, www.bvg.de/en)
“Nahmitzer Damm/Marienfelder Allee (Berlin)“

Registration:

The symposium will be held in English. The participation fee is 140 € (for students: 70 €). After registration you will receive a payment request via email.

Please register until 17 November 2016 here:
www.bfr.bund.de/en/events.html

Contact:

BfR Academy
Tel.: +49 (0)3018 412 3456
Fax: +49 (0)3018 412 63456
academy@bfr.bund.de

Organiser:

German Federal Institute for Risk Assessment (BfR)
Max-Dohrn-Straße 8–10
10589 Berlin
Germany
www.bfr.bund.de



FEDERAL INSTITUTE FOR RISK ASSESSMENT

International Symposium on “Standardisation of Non-Targeted Methods for Food Authentication”

28–29 November 2016, Berlin



Bundesinstitut für Risikobewertung