Course program overview

**METROFOOD-RI:**
Traceability and comparability of results in food measurements

**Monday 20 September 2021**

13.30  Registration is open
14.15  Presentation of the School of Advances Studies in Food and Nutrition  
*D. Del Rio, University of Parma, Italy*
14.30  Presentation of the Course  
*M. Careri, University of Parma, Italy*  
*C. Zoani, ENEA, Italy*

**Food Metrology**

*Chair: I. Castanheira, INSA, Portugal*

14.45  METROFOOD-RI: a research infrastructure for metrology services in food and nutrition  
*C. Zoani, ENEA, Italy*

15.30  Analytical quality assurance and metrological traceability of measurement data in food safety assessment: advances in analytical systems  
*M. Careri, University of Parma, Italy*

16.30  *Coffee break*

17.00  Ensuring aspects of food integrity by metrology  
*M. Rychlik, TUM, Germany*

18.00  *Open discussion*

18.30  *Day one end*
Tuesday 21 September 2021

Chair: M. Patriarca, EURACHEM, ISS, Italy

9.00 Improve the quality of measurement results in food analysis: the role of a National Metrology Institutes
A.M. Rossi, INRIM, Italy

10.00 Establishing traceability and comparability of measurement results by Certified Reference Materials
L. Lo Guzzo, Accredia, Italy

11.00 Coffee break

11.30 Method validation in food analysis
S. Pepa, Accredia, Italy

12.30 Lunch break

Assuring the quality of analytical data in food analysis

Chair: A.M. Rossi, INRIM, Italy

14.00 Quality assurance for reliable food measurement results – The EU perspective
P. Robouch, JRC, European Commission

15.00 Compliance with legal requirements and measurement uncertainty in food analysis
M. Patriarca, EURACHEM, ISS, Italy

16.00 Coffee break

16.30 Proficiency Testing for the food sector: the role of the European Union and National Reference Laboratories
A. Sorbo, ISS, Italy

17.30 Open discussion

18.00 Day two end
Wednesday 22 September 2021

Food Fraud and Authenticity

Chair: C. Zoani, ENEA, Italy

9.00 Reference materials and calibration for stable isotope ratio analysis in food
L. Bontempo, Edmund Mach Foundation, Italy

10.00 Stable isotope metrology in food science
N. Ogrinc, JSI, Slovenia

11.00 Coffee break

11.30 Chemometrics in food characterization and authentication
F. Bianchi, University of Parma, Italy

12.30 Lunch break

 Chair: M. Rychlik, TUM, Germany

14.00 Food industry applications and challenges in moving between targeted and non-targeted mass spectrometry methods for food fraud analysis
M. Suman, Barilla SpA, Italy

15.00 Rheological tests - a tool for improving food quality used by food industry
N. Belc, IBA Bucharest, Romania

16.00 Coffee break

16.30 Collaborative studies for the identification of relevant targets for food authenticity
I. Castanheira, INSA, Portugal

17.30 Open discussion

18.00 Day three end
Thursday 23 September 2021

Food Quality and Safety

Chair: M. Careri, University of Parma, Italy

9.00   EFSA’s contribution to safe and sustainable food systems
       S. Bronzwaer, EFSA

10.00  The importance of metrology and standardization of nanomaterials for food
       industry and regulatory authorities in Europe
       Q. Chaudhry, University of Chester, UK

11.00  Coffee break

11.30  Nanomaterials in food: traceability and comparability of analytical
       measurements as prerequisites for food safety
       F. Cubadda, ISS, Italy

12.30  Open discussion

13.00  Closing of the Course
       M. Careri, University of Parma, Italy
       C. Zoani, ENEA, Italy