

# EFSA

Shaping  
the Future  
of Food Safety,  
Together

Milan, 14-16 October 2015



**CONFERENCE PROGRAMME**

**#EFSAExpo2015**

12.00 – 14.00 REGISTRATION

14.00 – 14.30 OPENING CEREMONY

**Giuseppe Ruocco** *Ministry of Health, Italy*

**Bernhard Url** *European Food Safety Authority (EFSA), Italy*

14.30 – 18.00 PLENARY SESSION

## WHAT DOES THE FUTURE HOLD FOR ASSESSMENT SCIENCE?

### **Chairs**

**Angeles Rodríguez Peña** *COST, Belgium*

**Michael Scannel** *Food and Veterinary Office, European Commission, Brussels*

**Bernhard Url** *European Food Safety Authority (EFSA), Italy*

### **Rapporteurs**

**Hubert Deluyker** *European Food Safety Authority (EFSA), Italy*

**José Tarazona** *European Food Safety Authority (EFSA), Italy*

14.30 – 15.10 **The science of assessment and the assessment of science: new frontiers in food safety evaluation**

**Sheila Jasanoff** *The John F. Kennedy School of Government, Harvard University, USA*

15.10 – 15.50 **From risk regulation to innovation democracy**

**Andrew Stirling** *The Sussex Energy Group, University of Sussex, UK*

15.50 – 16.20 COFFEE BREAK

16.20 – 17.00 **Identification, prioritization and conduct of applied research and analyses impacting policy development: lessons learned from the U.S. National Toxicology Program (NTP)**

**Nigel Walker** *National Institute of Environmental Health Sciences/ NIH, USA*

17.00 – 17.40 **Scientific support for effective policy development: putting it in practice**

**Mark Walport** *Government Office for Science, UK*

17.40 – 18.00 PANEL DISCUSSION

18.00 – 19.00 POSTER SESSION

19.00 – 20.00 COCKTAIL RECEPTION

15 OCTOBER 2015

ROOM: **FRANCI**

## OPEN RISK ASSESSMENT: DATA

### **Chairs**

**Ana Canals** *Spanish Agency for Consumer Affairs, Food Safety and Nutrition (AECOSAN), Spain*

**Angelika Tritscher** *World Health Organization (WHO), Switzerland*

### **Rapporteurs**

**Fabrizio Abbinante** *European Food Safety Authority (EFSA), Italy*

**Mary Gilsean** *European Food Safety Authority (EFSA), Italy*

**Eileen O'Dea** *Food Safety Authority (FSA) Ireland*

09.00 – 09.30

### **SECTION 1: OPENING AND KEYNOTE SPEECH**

**European Commission's Open Science Initiative: co-creating added value with data**

**Jean-Claude Burgelman** *DG RTD, European Commission, Belgium*

09.30 – 10.45

### **SECTION 2: RE-USE AND INTEROPERABILITY**

**European Commission's Open Data Strategy and the EU Open Data Portal**

**Yvo Volman** *Publications Office of the European Union, Luxembourg*

**Data visualizations: drawing actionable insights from science and technology data**

**Katy Börner** *Indiana University, USA*

**Data interoperability and linked data technologies**

**Dave Weller** *Thomson Reuters, UK*

10.45 – 11.15

### **COFFEE BREAK**

11.15 – 12.15

### **SECTION 3: SCOPE OF OPEN DATA**

**Opening clinical trial data**

**Hans-Georg Eichler** *European Medicines Agency (EMA), UK*

**Data collection by public bodies: joint EFSA - Member State activities**

**Leif Busk** *National Food Agency, Sweden*

**Stefano Cappe** *European Food Safety Authority (EFSA), Italy*

**Metro's Global Standard Traceability Solution**

**Britta Gallus** *Metro Group, Germany*

12.15 – 13.00

### **SECTION 4: PANEL DISCUSSION**

Moderated panel discussion

Concluding remarks

PARALLEL SESSION

#OPENDATA

#EFSAXPO2015

15 OCTOBER 2015

ROOM: GEMINI

## WEIGHING EVIDENCE AND ASSESSING UNCERTAINTY

### **Chairs**

**Prabhat Agarwal** *DG CONNECT, European Commission, Belgium*

**Derek J. Knight** *European Chemicals Agency (ECHA), Finland*

### **Rapporteurs**

**Bernard Bottex** *European Food Safety Authority (EFSA), Italy*

**Jean Lou Dorne** *European Food Safety Authority (EFSA), Italy*

09.00 – 09.45

### **SECTION 1: OPENING AND KEYNOTE SPEECH**

**Weighing evidence and assessing uncertainties: Where have we been, where are we going?**

**Lorenz Rhomberg** *Gradient, USA*

09.45 – 10.45

### **SECTION 2: WEIGHING EVIDENCE AND ASSESSING UNCERTAINTIES FOR SCIENTIFIC ADVICE**

**Weighing evidence of biological relevance: from empirical testing in rats to 21st century mode of action analysis**

**Harvey Clewell** *The Hamner Institute for Health Sciences, USA*

**Weighing evidence and assessing uncertainty in microbiological risk assessment: approaches for preparing appropriate scientific support for decision making in complex questions?**

**Matthias Greiner** *Federal Institute for Risk Assessment (BfR) and University of Veterinary Medicine Hannover, Germany*

**Uncertainty, variability and weight of evidence: how well do we know environmental risks?**

**Glenn Suter** *United States Environmental Protection Agency (EPA), USA*

10.45 – 11.15

### **COFFEE BREAK**

11.15 – 12.15

### **SECTION 3: FUTURE CHALLENGES**

**Coming to grips with unfamiliar uncertainties of a new predictive toxicology paradigm**

**Maurice Whelan** *Joint Research Centre, European Commission, Italy*

**Assessing and communicating uncertainties for risk assessment and risk management: recent international developments**

**Andrew Hart** *Food and Environment Research Agency (Fera), UK*

12.15 – 13.00

### **SECTION 4: PANEL DISCUSSION**

Moderated panel discussion

Concluding remarks

## EXPERTISE FOR THE FUTURE

### **Chairs**

**Pier Sandro Coconcelli** *Università Cattolica del Sacro Cuore, Italy*

**Dominique Gombert** *French Agency for Food, Environmental and Occupational Health & Safety (ANSES), France*

### **Rapporteur**

**Dimitra Kardassi** *European Food Safety Authority (EFSA), Italy*

09.00 – 09.45

### **SECTION 1: OPENING AND KEYNOTE SPEECH**

**Expertise for the future: harnessing the power of digital technologies**

**Gráinne Conole** *University of Leicester, UK*

09.45 – 10.45

### **SECTION 2: RISK ASSESSMENT GRADUATE PROGRAMMES AND SHORT COURSES**

**Recent advances in food chemical risk assessment training and capacity building**

**Paul Brent** *World Bank Global Food Safety Partnership (GFSP), Developing training in Chemical Risk Assessment, Australia*

**Food safety risk assessment capacity building: educational cooperation programme in Europe**

**Wolfgang Kneifel** *University of Natural Resources and Life Sciences, Vienna, Austria*

**Training in epidemiology and microbiological risk assessment**

**Arnold Bosman** *European Centre for Disease Prevention and Control (ECDC) Sweden*

10.45 – 11.15

### **COFFEE BREAK**

11.15 – 12.15

### **SECTION 3: THE EVOLUTION OF EDUCATION BEYOND TRADITIONAL LEARNING METHODS**

**Short courses in food safety risk assessment**

**Andreas Hensel** *Federal Institute for Risk Assessment (BfR), Germany*

**Environmental risk assessment training and capacity building**

**Amadeu Soares** *University of Aveiro, Portugal*

**Beyond traditional learning – Ways for professionals to stay up-to-date on health risk assessment**

**Johanna Zilliacus** *Karolinska Institute, Sweden*

12.15 – 13.00

### **SECTION 4: PANEL DISCUSSION**

Moderated panel discussion

Concluding remarks

## NUTRITION CHALLENGES AHEAD

**Chairs****Androniki Naska** *National and Kapodistrian University of Athens, Greece***Junshi Chen** *China National Center for Food Safety Risk Assessment, China***Rapporteur****Silvia Valtueña Martínez** *European Food Safety Authority (EFSA), Italy*

09.00 – 09.45

**SECTION 1: OPENING AND KEYNOTE SPEECH****Nutrition in the 21st century****Thomas Sanders** *King's College London, UK*

09.45 – 10.45

**SECTION 2: FOOD FOR ME****Metabolic programming: Implications for feeding infants and children****Mary Fewtrell** *UCL Institute of Child Health, UK***Personalised nutrition for the gut microbiome: feed it, change it, swap it?****Kieran Michael Tuohy** *Fondazione Edmund Mach, Italy*

10.45 – 11.15

**COFFEE BREAK**

11.15 – 12.15

**SECTION 3: FOOD FOR US****Novel foods****Klaus Riediger** *Austrian Agency for Health and Food Safety (AGES), Austria***Under-used food sources of key nutrients****Nanna Roos** *University of Copenhagen, Denmark***Nutrition challenges ahead: using agro-biodiversity for healthier diets within sustainable food systems****Gina Kennedy** *Bioversity International, Italy*

12.15 – 13.00

**SECTION 4: PANEL DISCUSSION**

Moderated panel discussion

Concluding remarks

## SCIENCE, INNOVATION &amp; SOCIETY

***Chairs***

**Jean-Louis Bresson** *Université Descartes & Hôpital Necker-Enfants Malades, France*

**Anthony Hardy** *European Food Safety Authority (EFSA), Scientific Committee, Italy*

***Rapporteurs***

**Frank Boelaert** *European Food Safety Authority (EFSA), Italy*

**George Kass** *European Food Safety Authority (EFSA), Italy*

- 14.30 – 15.10      **Food and health: the role of intestinal micro-organisms in human health**  
Anne Salonen *University of Helsinki, Finland*
- 15.10 – 15.50      **New developments in our knowledge of neurodegenerative disease**  
Pierluigi Nicotera *German Center for Neurodegenerative Diseases (DZNE), Germany*
- 15.50 – 16.20      **COFFEE BREAK**
- 16.20 – 17.00      **Key developments in the research on reproductive endocrinology**  
Richard M. Sharpe *University of Edinburgh, UK*
- 17.00 – 17.40      **Understanding complex mechanisms in determining adverse and beneficial health effects with nutrition/diets: from basic science of hazard identification to the concept of 'One Health–One Planet'**  
James Trosko *Michigan State University, USA*
- 17.40 – 18.00      **PANEL DISCUSSION**
- 18.00 – 19.00      **POSTER SESSION**

## OPEN RISK ASSESSMENT: METHODS AND EXPERTISE

**Chairs**

**Elke Anklam** *Joint Research Center, European Commission, Belgium*

**Robert Doubleday** *University of Cambridge, UK*

**Hiroshi Satoh** *Food Safety Commission, Japan*

**Reiner Wittkowski** *Federal Institute for Risk Assessment (BfR), Germany*

**Rapporteurs**

**Tom Meyvis** *European Food Safety Authority (EFSA), Italy*

**Didier Verloo** *European Food Safety Authority (EFSA), Italy*

09.00 – 09.45

**SECTION 1: OPENING AND KEYNOTE SPEECH****From “science in society” to “science with society”?**

**Gerard De Vries** *University of Amsterdam, The Netherlands*

09.45 – 10.05

**SECTION 2: PROBLEM FORMULATION RISK ASSESSMENT INITIATION****Regulatory impact assessment using socio-economic analysis**

**Tomas Öberg** *European Chemicals Agency (ECHA), Finland*

10.05 – 10.45

**SECTION 3: EXPERTISE****The role of crowdsourcing in risk assessment**

**Steven Drew** *InnoCentive, UK*

**User motivation and knowledge sharing in idea crowd sourcing**

**Miia Kosonen** *Mikkeli University of Applied Sciences, Finland*

10.45 – 11.15

**COFFE BREAK**

11.15 – 11.55

**SECTION 4: METHODS****How to support decisions with online collaborative models?**

**Jouni Tuomisto** *National Institute for Health and Welfare (THL), Finland*

**Extracting evidence from unstructured data: potential applications of IBM Watson for RA**

**Cameron Brooks** *IBM Watson Group, Public Sector Solutions, USA*

11.55 – 12.15

**SECTION 5: COMMUNICATION****Implementing the risk profile: The German risk assessor's experience**

**Mark Lohmann** *Federal Institute for Risk Assessment (BfR), Germany*

12.15 – 13.00

**SECTION 6: PANEL DISCUSSION**

Moderated panel discussion

Concluding remarks

## NOVEL CHEMICAL HAZARD CHARACTERISATION APPROACHES

**Chairs**

William Slikker Jr. *U.S. Food and Drug Administration, (FDA) USA*

Emanuela Testai *Istituto Superiore di Sanità, Italy*

**Rapporteur**

Manuela Tiramani *European Food Safety Authority (EFSA), Italy*

09.00 – 09.45

**SECTION 1: OPENING AND KEYNOTE SPEECH****The frontiers of predictive toxicology**

Thomas Hartung *Johns Hopkins University, USA*

09.45 – 10.45

**SECTION 2: SYSTEMS BIOLOGY APPROACH AND PREDICTIVE TOXICOLOGY****Alternative and integrated testing strategies**

Horst Spielmann *Freie Universität Berlin, Germany*

**The study of modes of action: the AOP**

Ellen Fritsche *Leibniz Research Institute for Environmental Medicine (IUF), Germany*

**In vitro data and in silico models for predictive toxicology.****The SEURAT project**

Elisabet Berggren *Joint Research Centre, European Commission, Italy*

10.45 – 11.15

**COFFEE BREAK**

11.15 – 12.15

**SECTION 3: COMPUTATIONAL TOXICOLOGY****QSAR and computational tools**

Emilio Benfenati *Istituto di Ricerche Farmacologiche Mario Negri, Italy*

**In vitro and high throughput screening (HTS) assays**

Raymond Tice *National Institute of Environmental Health Sciences (NIEHS), USA*

**Organs-on-chips: a living platform for generating human relevant data**

Remi Villenave *Emulate, USA*

12.15 – 13.00

**SECTION 4: PANEL DISCUSSION**

Moderated panel discussion

Concluding remarks

## MICROBIOLOGICAL RISK ASSESSMENT

**Chairs**

**Steve Hathaway** *Ministry for Primary Industries, New Zealand*

**Birgit Nørrung** *University of Copenhagen, Denmark*

**Rapporteurs**

**Winy Messens** *European Food Safety Authority (EFSA), Italy*

**Valentina Rizzi** *European Food Safety Authority (EFSA), Italy*

09.00 – 09.45

**SECTION 1: OPENING AND KEYNOTE SPEECH**

**World Health Organization estimates of the global burden of foodborne diseases, 2010**

**Arie Havelaar** *University of Florida, USA*

09.45 – 10.45

**SECTION 2: RISK RANKING**

**Methodology and uncertainty impact on risk ranking of microbiological hazards: present and future**

**Kostas Koutsoumanis** *Aristotle University of Thessaloniki, Greece*

**Improving the usability and communicability of burden of disease methods and outputs: the BCoDE toolkit application**

**Alessandro Cassini** *European Centre for Disease Prevention and Control (ECDC), Sweden*

10.45 – 11.15

**COFFEE BREAK**

11.15 – 12.15

**SECTION 3: CHALLENGES FOR MICROBIOLOGICAL RISK ASSESSMENT**

**The contribution of typing methods to risk assessment**

**Flemming Scheutz** *Statens Serum Institut, Denmark*

**Challenges in risk assessment for viruses**

**Marion Koopmans** *Erasmus MC, The Netherlands*

**Approaches to deal with uncertainty in emergency assessments: the case of the EHEC outbreak in 2011 in Germany**

**Gordon Müller-Seitz** *Technical University Kaiserslautern, Germany*

12.15 – 13.00

**SECTION 4: PANEL DISCUSSION**

Moderated panel discussion

Concluding remarks

## DRIVERS FOR EMERGING ISSUES IN ANIMAL AND PLANT HEALTH

### **Chairs**

**Guy Poppy** *Food Standards Agency and University of Southampton, UK*

**Jan Schans** *Netherlands Food and Consumer Product Safety Authority (NVWA), The Netherlands*

### **Rapporteurs**

**Franck C.J. Berthe** *European Food Safety Authority (EFSA), Italy*

**Caryl Lockhart** *Food and Agriculture Organization of the United Nations (FAO), Italy*

**Stefano Pongolini** *Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna, Italy*

**Jane Richardson** *European Food Safety Authority (EFSA), Italy*

09.00 – 09.30

### **SECTION 1: OPENING AND KEYNOTE SPEECH**

**People, animals, plants, pests and pathogens: connections matter**

**William Karesh** *EcoHealth Alliance, USA*

09.30 – 10.45

### **SECTION 2: HOSTS, PATHOGENS AND THEIR ENVIRONMENT**

**Relations between pathogens, hosts and environment: joining the dots**

**Matthew Baylis** *University of Liverpool, UK*

**Discovering novel pathways of cross-species pathogen transmission**

**Tony Goldberg** *University of Wisconsin-Madison, USA*

**Broad brush analysis of livestock disease drivers, ecology and pathogen evolution**

**Jan Slingenbergh** *Independent advisor, Germany*

10.45 – 11.15

### **COFFEE BREAK**

11.15 – 12.15

### **SECTION 3: DRIVERS IN ACTION**

**Horizon scanning for emergence of new viruses in animal and public health**

**Paul Gale** *Animal and Plant Health Agency (APHA), UK*

**Mapping complexity: visualising a world of change**

**Tommaso Venturini** *Sciences Po médialab, France*

**A vision for a global operation room**

**Mike Catchpole** *European Centre for Disease Prevention and Control (ECDC), Sweden*

12.15 – 13.00

### **SECTION 4: PANEL DISCUSSION**

Moderated panel discussion

Concluding remarks

## ADVANCING ENVIRONMENTAL RISK ASSESSMENT

**Chairs****Helmut Gaugitsch** *Environment Agency Austria, Austria***Jock Martin** *European Environment Agency (EEA), Denmark***Rapporteurs****Yann Devos** *European Food Safety Authority (EFSA), Italy***Agnès Rortais** *European Food Safety Authority (EFSA), Italy***Reinhilde Schoonjans** *European Food Safety Authority (EFSA), Italy***Franz Streissl** *European Food Safety Authority (EFSA), Italy*

09.00 – 09.30

**SECTION 1: OPENING AND KEYNOTE SPEECH****An introduction to ERA: advances and challenges****Alan Gray** *Centre for Ecology and Hydrology (CEH), UK*

09.30 – 10.20

**SECTION 2: MAKING PROTECTION GOALS OPERATIONAL FOR USE IN ERAS****The ecosystem service approach to make protection goals operational****Lorraine Maltby** *University of Sheffield, UK***Protection goals, assessment endpoints, ecosystem services and biodiversity****Glenn Suter** *U.S. Environmental Protection Agency, USA*

10.20 – 10.45

**SECTION 3: RELEVANCE AND RELIABILITY OF STUDIES SUPPORTING ERA****ERA vs. ecological research – the importance of a good problem formulation****Joe Smith** *Advisor in Government, Science and Regulation, Australia*

10.45 – 11.15

**COFFEE BREAK**

11.15 – 11.40

**SECTION 3: RELEVANCE AND RELIABILITY OF STUDIES SUPPORTING ERA****Methods used to assure high quality studies for ERA – non-target arthropod testing of transgenic plants as a case study****Jörg Romeis** *Agroscope, Institute for Sustainability Sciences, Switzerland*

11.40 – 12.05

**SECTION 4: INTEGRATED ERA****Multiple stressors: bees as a case study****Jeff Pettis** *U.S. Department of Agriculture (USDA), USA*

12.05 – 13.00

**SECTION 5: PANEL DISCUSSION****Moderated panel discussion****Concluding remarks**

## FINAL PLENARY SESSION

### **Chair**

**Anthony Hardy** *European Food Safety Authority (EFSA), Scientific Committee, Italy*

**Hubert Deluyker** *European Food Safety Authority (EFSA), Italy*

### **Rapporteurs**

**Andrea Germini** *European Food Safety Authority (EFSA), Italy*

**Djien Liem** *European Food Safety Authority (EFSA), Italy*

**Tobin Robinson** *European Food Safety Authority (EFSA), Italy*

14.00 – 15.00

### **CONFERENCE CONCLUSIONS**

Moderated by **Barbara Serra**, *Al Jazeera, UK*

**Elke Anklam** *Directorate General Joint Research Centre (DG JRC), European Commission*

**Takis Daskaleros**, *Directorate General for Health and Food Safety (DG SANTE), European Commission*

**Martin Dermine**, *Pesticide Action Network Europe (Pan Europe)*

**Samuel Godefroy** *Platform for Food Regulatory Excellence, University Laval, Canada*

**Patrick Hau** *Ministry of Health of Luxembourg*

**Euros Jones** *European Crop Protection Association (ECPA)*

**Derek Knight** *European Chemical Agency (ECHA)*

**Angelika Tritscher**, *World Health Organisation (WHO)*

15.00 – 15.30

### **CONCLUDING REMARKS**

**Vytenis Andriukaitis** *EU Commissioner for Health and Food Safety*

**Sue Davies** *Chair of EFSA's Management Board*

## GROUND FLOOR



## 1ST FLOOR

# AT A GLANCE

	9.00	10.00	10.45	11.15	12.00	13.00	14.00	14.30	15.30	15.50	16.20	17.00	18.00	19.00
14 OCTOBER 2015														
REGISTRATION OF PARTICIPANTS					REGISTRATION DESK									
WELCOME LUNCH					FOYER									
OPENING CEREMONY						AUDIT.								
Plenary session 1: <b>What does the futures hold for assessment science?</b>										AUDITORIUM				
COFFEE BREAK										FOYER				
POSTER SESSION													FOYER	
COCKTAIL RECEPTION														FOYER
15 OCTOBER 2015	9.00	10.00	10.45	11.15	12.00	13.00	14.00	14.30	15.30	15.50	16.20	17.00	18.00	19.00
Parallel Session: <b>Open risk assessment: data</b>			FRANCI											
Parallel Session: <b>Weighing evidence and assessing uncertainty</b>			GEMINI											
Parallel Session: <b>Expertise for the future</b>			TAURUS											
Parallel Session: <b>Nutrition challenges ahead</b>			MARTINI											
COFFEE BREAK			FOYER							FOYER				
LUNCH						FOYER								
Plenary session 2: <b>Science, innovation &amp; society</b>										AUDITORIUM				
POSTER SESSION													FOYER	
16 OCTOBER 2015	9.00	10.00	10.45	11.15	12.00	13.00	14.00	14.30	15.30	15.50	16.20	17.00	18.00	19.00
Parallel Session: <b>Open risk assessment: methods and expertise</b>			FRANCI											
Parallel Session: <b>Novel chemical hazard characterisation approaches</b>			GEMINI											
Parallel Session: <b>Microbiological risk assessment</b>			MARTINI											
Parallel Session: <b>Drivers for emerging issues in animal and plant health</b>			TAURUS											
Parallel Session: <b>Advancing environmental risk assessment</b>			LIBRA											
COFFEE BREAK			FOYER											
LUNCH						FOYER								
Final plenary session: <b>Conference conclusions</b>							AUDITORIUM							

