

P R O G R A M M E

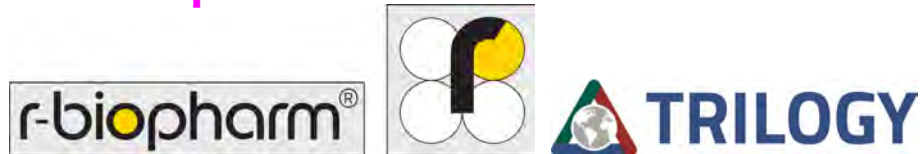
THE
World
Mycotoxin
Forum[®]
14TH CONFERENCE

WMF meets Belgium

9-11 October 2023
ANTWERP BELGIUM

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ALL ABOUT FEED
DAIRY GLOBAL

WELCOME TO ANTWERP

The World Mycotoxin Forum® is the leading international meeting series on mycotoxins dedicated to assembling the world's best minds across the spectrum of integrated strategies ensuring the safety and security of the food and feed supply chain. **The World Mycotoxin Forum®** brings together a holistic conference programme covering the latest issues in mycotoxin management and is targeted at everyone working in the mycotoxin space – researchers, food and feed industry, laboratories, policy makers, and enforcement agencies from around the world.

The 14th conference of **The World Mycotoxin Forum® – WMFmeetsBelgium** will offer an excellent way to network, share ideas, and formulate recommendations and conclusions on how to close knowledge gaps. It will include:

- presentations and discussions in plenary meetings and parallel sessions
- poster sessions
- a young scientists forum
- company pitches and industry updates covering a wide range of topics
- workshops
- a concurrent instrument/manufacturers exhibition providing information on equipment, products, and services.

High-quality speakers, ample time for discussions, and every opportunity to establish rewarding connections are values **The World Mycotoxin Forum®** wants to uphold.

WMFmeetsBelgium will be held in 'A Room with a ZOO', a state-of-the-art conference centre located in the heart of Antwerp. 'A Room with a ZOO' is part of the Antwerp ZOO Society. Profits of congresses and events immediately support efforts on cherishing nature through animal welfare, education, and awareness building. Your participation in **WMFmeetsBelgium** in 'A Room with a ZOO' contributes directly to nature conservation. In 'A Room with a ZOO', your engagement cherishes nature.

ABOUT THE WORLD MYCOTOXIN FORUM®

The main objectives of **The World Mycotoxin Forum®** are ...

- to provide a unique platform for the food and feed industry, regulatory authorities and science
- to exchange information and experiences on the various aspects of mycotoxins
- to review current knowledge related to mycotoxins in food and feed
- to discuss strategies for prevention and control of mycotoxin contamination ensuring the safety and security of the food and feed supply, and protecting human and animal health to promote solutions for the control of mycotoxin contamination along conventional and organic supply chains.

... for a sustainable, safe, and inclusive food future!

General Conference Chairs

- Prof. Rudolf Krska, *Department IFA-Tulln, BOKU Vienna, Austria*
- Prof. Chris Elliott, *The Institute for Global Food Security, Queen's University Belfast, UK*

Local Conference Chairs

- Prof. Sarah De Saeger and Prof. Marthe De Boevre,
Centre of Excellence in Mycotoxicology and Public Health, Ghent University, Belgium

Local Committee

- Dr Tess Goessens, Dr Celine Meerpoel, Dr María Agustina Pavicich,
Dr Roger Pero-Gascon and Dr Esther De Rycke,
Ghent University, Belgium

International Advisory Committee

- Prof. Chiara Dall'Asta, *University of Parma, Italy*
- Dr Johan De Meester, *Cargill R&D Centre Europe, Belgium*
- Prof. Hans-Ulrich Humpf, *University of Münster, Germany*
- Prof. Yang Liu, *Foshan University, China*
- Dr Fernando B. Luciano, *Pontifícia Universidade Católica do Paraná, Brazil*
- Prof. Angel Medina-Vaya, *Cranfield University, UK*
- Dr Monique de Nijs, *Wageningen Food Safety Research, the Netherlands*
- Dr Isabelle Oswald, *INRAE, France*
- Dr Lien Thi Kim Phan, *Ho Chi Minh City University of Food Industry, Vietnam*
- Dr Kanniah Rajasekaran, *US Department of Agriculture, USA*
- Prof. Michele Suman, *Barilla, Italy*
- Dr Sheryl Tittlemier, *Canadian Grain Commission, Canada*
- Dr Neriman Yilmaz, *University of Pretoria, South Africa*
- Dr Guangtao Zhang, *Mars, China*

Conference Secretariat

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www.WorldMycotoxinForum.org

PROGRAMME AT A GLANCE

Sunday 8 October 2023

18:30 – 20:00	Welcome reception – sponsored by R-Biopharm Chocolate Nation, the Belgian Chocolate Museum
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Monday 9 October 2023

11:00 – 12:30	Registration and light lunch	EXHIBITION
12:30 – 13:15	OPENING SESSION Welcome to <i>WMFmeetsBelgium</i>	
13:15 – 14:15	PLENARY SESSION Grand challenges for a sustainable, safe, and inclusive food future	
14:15 – 16:00	PLENARY SESSION Interactive debate – A world tour on climate change and the battle against mycotoxins	
16:00 – 16:30	Networking break & poster viewing	
16:30 – 17:45	Speed presentations and Company pitches	
17:45 – 19:00	Wine & Cheese tasting – sponsored by dsm-firmenich and Romer Labs	

Tuesday 10 October 2023

08:30 – 10:30	SESSION 1 Focus on mycotoxigenic fungi, plants, and soil	SESSION 2 Sampling and mass spectrometry- based approaches for mycotoxin analysis: an update	EXHIBITION
10:30 – 11:00	Networking break & poster viewing sponsored by Charm Sciences		
11:00 – 12:30	SESSION 3 Mycotoxin exposure assessment and human health	SESSION 4 Mycotoxins and their impact on animal health	
12:30 – 14:00	Lunch break & poster viewing		
12:45 – 13:45	Workshops by R-Biopharm, dsm-firmenich and GSD		
14:00 – 15:30	SESSION 5 Managing and mitigating mycotoxin risks	SESSION 6 Mycotoxins and animal performance	
15:30 – 16:00	Networking break & poster viewing		
16:00 – 17:00	SESSION 7 Mycotoxin management in a sustainable future	SESSION 8 Data-driven mycotoxin management	
17:00 – 18:00	WMF Young Scientists Forum sponsored by Selko		
19:00 – 23:00	zoo tour & conference dinner (<i>reservations only</i>)		

Wednesday 11 October 2023

08:45 – 10:15	SESSION 9 Update on global mycotoxin research and new concepts	SESSION 10 Novel and alternative techniques in mycotoxin analysis and fungal detection	EXHIBITION
10:15 – 10:45	Networking break & poster viewing		
10:45 – 12:30	PLENARY SESSION Future perspectives		
12:25 – 12:35	Best Poster Award presentation		
12:35 – 13:00	<i>WMFmeetsBelgium</i> – Top Five Answers learned		
13:00	Closing of <i>WMFmeetsBelgium</i>		

REGISTRATION AND LIGHT LUNCH

11:00 – 12:30

OPENING SESSION**QUEEN ELISABETH HALL****Welcome to WMFmeetsBelgium****General Conference Chairs:**Prof. Rudolf Krska, *Department IFA-Tulln, BOKU Vienna, Austria*Prof. Chris Elliott, *Institute for Global Food Security, Queen's University Belfast, UK***Local Conference Chairs:**

Prof. Sarah De Saeger and Prof. Marthe De Boevre

*Centre of Excellence in Mycotoxicology and Public Health, Ghent University, Belgium***12:30 Welcome**Prof. Anne De Paepe, *chair Ghent University Association and Honorary Rector Ghent University, Belgium***12:45 Introduction to WMFmeetsBelgium**

Prof. Sarah De Saeger and Prof. Marthe De Boevre

13:00 Tribute to Prof. Naresh MaganProf. Angel Medina Vaya, *Cranfield University, UK***PLENARY SESSION****QUEEN ELISABETH HALL****Grand challenges for a sustainable, safe, and inclusive food future**Chairs Prof. Sarah De Saeger and Prof. Marthe De Boevre
*Centre of Excellence in Mycotoxicology and Public Health, Ghent University, Belgium***13:15 Food Systems Resilience: A major part of global food security**Prof. Chris Elliott, *Institute for Global Food Security, Queen's University Belfast, UK***13:35 Toxin-free food (against the backdrop of climate change)?**Prof. Rudolf Krska, *Department IFA-Tulln, BOKU Vienna, Austria***13:55 Exploring the impacts of climate change on mycotoxin contamination in food systems: statements, gaps and perspectives**Dr Marco Camardo Leggieri, *Department of Sustainable Crop Production, Università Cattolica del Sacro Cuore, Italy*

Interactive debate – A world tour on climate change and the battle against mycotoxins

Hosted by the International Society for Mycotoxicology (ISM) and sponsored by dsm-firmenich, R-Biopharm, Romer Labs, and Trilogy, in collaboration with Affidia Journal.

Moderator Prof. Sarah De Saeger, *Ghent University, Belgium and ISM*

14:15 An esteemed panel of international experts from various mycotoxicology societies across the globe as well as from companies has been gathered. Each expert will provide a concise overview of thoughts and proposed strategies regarding the topic. Subsequently, the floor will be open for a live discussion involving all participants.

The panel consists of Prof. Amnart Poapolathep (Thai Society of Mycotoxicology), Prof. Kiminori Shimizu (Japanese Society for Mycotoxicology), Prof. Yemisi Jeff-Agboola (Mycotoxicology Society of Nigeria), Prof. Hans-Ulrich Humpf (Society for Mycotoxin Research), Dr. Lindy Rose (African Society of Mycotoxicology), and Dr. Juan Manuel Palazzini (Latin American Society of Mycotoxicology).

16:00 Networking break & poster viewing

Company pitches and speed presentations

Short presentations by sponsors to inspire the audience to visit their booths (company pitches) and by selected poster presenters to provide an overview of their research (speed presentations)

Chair TBC

16:30 Company pitches

- R-Biopharm/Trilogy
- dsm-firmenich/Romer Labs
- Selko
- Adisseo
- Gold Standard Diagnostics
- Phileo by Lesaffre

17:00 Speed presentations (to be announced)

17:20 Company pitches

- Alltech
- EnviroLogix
- Biõnte
- Bioeasy

17:45 – 19:00

Wine & Cheese tasting – sponsored by dsm-firmenich/Romer Labs

Focus on mycotoxigenic fungi, plants, and soil

Chairs Dr Neriman Yilmaz, *University of Pretoria, South Africa*
Dr María Agustina Pavicich, *Ghent University, Belgium*

08:30 Mycotoxigenic fungus or not? Let's have a look at the genome!

Dr Jérôme Collemare, *Westerdijk Fungal Biodiversity Institute, the Netherlands*

08:45 Inter- and intraspecific genetic variability of mycotoxigenic fungi leading to differences in mycotoxin profiles

Dr Antonio Moretti, *Institute of Sciences of Food Production (ISPA-CNR), Italy*

09:00 Root uptake and metabolization of *Alternaria* toxins into wheat plants using a hydroponic cultivation system

Dr Ahmed H. El-Khatib, *Department Safety in the Food Chain, German Federal Institute for Risk Assessment, Germany*

09:15 Resistance to *Aspergillus flavus* infection and aflatoxin contamination in maize

Dr Kanniah Rajasekaran, *Food and Feed Safety Research, Agricultural Research Service, US Department of Agriculture, USA*

09:30 Mechanisms governing the regulation of mycotoxin biosynthesis and virulence in the plant pathogen *Penicillium expansum*

Dr Edward Sionov, *Agricultural Research Organization – Volcani Institute, Israel*

09:45 *Fusarium avenaceum* mycotoxin production and pathogenicity in cereal and pulse crops

Dr Nora Foroud, *Lethbridge Research and Development Centre, Agriculture and Agri-Food Canada, Canada*

10:00 Silent saboteurs: Exploring the counterintuitive interplay between weak pathogens and the virulent *Fusarium graminearum* in *Fusarium* Head Blight disease suppression in wheat

Prof. Kris Audenaert, *Department of Plants and Crops, Ghent University, Belgium*

10:15 Mycotoxin-soil interactions: The role of soil in the biosynthesis, fate and biological effects of mycotoxins

Dr Katherine Muñoz, *Institute for Environmental Sciences, RPTU Kaiserslautern-Landau, Germany*

10:30 Networking break & poster viewing sponsored by Charm Sciences

Sampling and mass spectrometry-based approaches for mycotoxin analysis: an update

Chairs Dr Monique de Nijs, *Wageningen Food Safety Research, the Netherlands*
Prof. Michele Suman, *Barilla, Italy*

08:30 A quality control scheme designed to assess sample preparation performance
Dr Sheryl Tittlemier, *Grain Research Laboratory, Canadian Grain Commission, Canada*

08:45 Challenges towards sampling and analysis of ergot alkaloids in wheat gluten
Dr Johan De Meester, *Cargill, Belgium*

09:00 Recent advances in mycotoxin analysis at FDA
Dr Kai Zhang, *Center for Food Safety and Applied Nutrition, Food and Drug Administration, USA*

09:15 Interlaboratory study to normalize LC-MS mycotoxin determination using the N-alkylpyridinium-3-sulfonates (NAPS) retention index system
Dr Mark Sumarah, *London Research and Development Centre, Agriculture and Agri-Food Canada, Canada*

09:30 Comparison of UHPLC-MS/MS methodologies for human biomonitoring of multiple mycotoxins in serum
Dr. Roger Peró Gascón, *Centre of Excellence in Mycotoxicology and Public Health, Ghent University, Belgium*

09:45 Ergot alkaloids in cereals, results, and trends from a 6-year study of industry monitoring
Dr Susan MacDonald, *Fera Science Limited, UK*

10:00 Company pitches

- Charm Sciences
- Foss
- Sciex
- Waters | VICAM
- ProGnosis Biotech
- Fianovis
- Neogen

10:30 Networking break & poster viewing sponsored by Charm Sciences

Exposure assessment and human health

Chairs Prof. Marthe De Boevre, *Ghent University, Belgium*

Prof. Hans-Ulrich Humpf, *University of Münster, Germany*

11:00 New insights into aflatoxin B₁ metabolism *in vitro* and *in vivo* by HPLC-MS/MS analysis in combination with intravital imaging

Prof. Hans-Ulrich Humpf, *Institute of Food Chemistry, University of Münster, Germany*

11:15 The aflatoxin B₁ misfortune never come alone: toxicity of the emerging mycotoxin versicolorin A

Dr Laura Soler-Vasco, *Toxalim Research Center in Food Toxicology, Université de Toulouse, INRAE, France*

11:30 Unravelling the toxicokinetics of tenuazonic acid through a human toxicokinetic trial
Lia Visintin, *Centre of Excellence in Mycotoxicology and Public Health, Ghent University, Belgium*

11:45 Accumulation of mycotoxins in human hair: novel approach for assessing chronic exposure

Dr Alfonso Narváez, *Laboratory of Food Chemistry and Toxicology, University of Valencia, Spain*

12:00 Overall exposure of European adult population to mycotoxins by statistically modelled biomonitoring data

Dr Barbara De Santis, *Nutrition and Veterinary Public Health, Italian National Institute of Health, Italy*

12:15 Exposomics study for investigating mycotoxins exposure and the association with biomolecular markers of aging and birth outcomes in rural Burkina Faso

Yuri Bastos Moreira, *Centre of Excellence in Mycotoxicology and Public Health, Ghent University, Belgium*

12:30 Lunch break & poster viewing

WORKSHOPS

12:45 – 13:45

Workshop sponsored by R-Biopharm/Trilogy Analytical Laboratory
Managing the matrix mayhem

OKAPI ROOM 1

Workshops sponsored by Gold Standard Diagnostics
Raw materials shortage and mycotoxins risk assessment: the role of screening and screening validation

OKAPI ROOM 2

Workshop sponsored by dsm-firmenich/Romer Labs
Behind the scenes: Hands on experience – detection, quantification, mitigation

OKAPI ROOM 3

Mycotoxins and their impact on animal health

Chairs Dr Isabelle Oswald, *INRAE, France*

Dr Fernando B. Luciano, *Pontificia Universidade Católica do Paraná, Brazil*

11:00 **Double Trouble: Mycotoxins and sub acute rumen acidosis' impact on lactate-utilizing *Megasphaera* sp. in dairy cows – a rumen simulation system study**

Cameron Strachan, *Unit of Food Microbiology, University of Veterinary Medicine, Austria*

11:15 **The hepatic metabolism of aflatoxin B₁ explains the differences in susceptibility to the mycotoxin among major poultry species**

Prof. Gonzalo J. Diaz, *Facultad de Medicina Veterinaria y de Zootecnia, Universidad Nacional de Colombia, Colombia*

11:30 **Dose-response effects of combined doses of fumonisins, deoxynivalenol, and zearalenone mycotoxins on major T-cell subsets and tight junction protein expressions in broiler chickens**

Dr Revathi Shanmugasundaram, *Toxicology & Mycotoxin Research, Agricultural Research Service, US Department of Agriculture, USA*

11:45 **The mycotoxins T-2 and deoxynivalenol increase the translocation of *Streptococcus suis* across porcine ileal organoid monolayers**

Dr Regiane R. Santos, *Department of Research and Development, Schothorst Feed Research, the Netherlands*

12:00 **Mycotoxin biomarkers for livestock species: How far have we come?**

Dr Veronika Nagl, *dsm-firmenich, Austria*

12:15 **Company pitches**

- Impextraco
- Cargill
- Olmix
- MiXscience

12:35 **Lunch break & poster viewing**

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Behind the scenes: Hands on experience – detection, quantification, mitigation

OKAPI ROOM 3

Managing and mitigating mycotoxin risks

Chairs Prof. Angel Medina-Vaya, *Cranfield University, UK*
Prof. Chiara Dall'Asta, *University of Parma, Italy*

14:00 Potential mitigation strategies for free and modified *Fusarium* mycotoxins in oats
Dr Silvia Gratz, Rowett Institute, *University of Aberdeen, UK*

14:15 Nature vs. mycotoxins: affordable strategies to reduce mycotoxins in foods and animal feed
Dr Fernando Bittencourt Luciano, *Laboratory of Agri-Food Research and Innovation, Pontifícia Universidade Católica do Paraná, Brazil*

14:30 Pulsed light as a non-contact food decontamination technology for removing fungi and mycotoxins
Dr Yan Wang, *College of Food Science and Technology, Zhejiang University of Technology, China*

14:45 Reduction of deoxynivalenol in roller-milled fractions following washing and pearling of high- and low-contaminated wheat
Dr Gunnar Sundstøl Eriksen, *Toxicology Research Group, Norwegian Veterinary Institute, Norway*

15:00 The need for HACCP-approach to manage mycotoxins in animal products
Dr Swamy Haladi, *Selko, India*

15:15 Developing a machine learning predictive model to strengthen the preventive measures for mycotoxins in food and feed
Prof. Chris Elliott, *representing Agroknow, Greece*

15:30 Networking break & poster viewing



Mycotoxins and animal performance

Chairs Dr Johan De Meester, *Cargill, Belgium*

Dr Tess Goessens, *Ghent University, Belgium*

- 14:00** Are mycotoxins in vegetable-based salmon feed a cause for concern?
Effects of prevalent mycotoxins on welfare and growth of salmon in aquaculture
Dr Kai Kristoffer Lie, *Department of Marine Toxicology, Institute of Marine Research, Norway*
- 14:15** Machine learning-aided design of composite mycotoxin detoxifier material for animal feed
Dr Maciej Haranczyk, *IMDEA Materials Institute, Spain*
- 14:30** Complementary modes of action of a mycotoxin deactivator can support health and performance of animals
Dr Damien Prévéraud, *Adisseo, France*
- 14:45** Untangling the complex web of aflatoxins and fumonisins using bentonite and fumonisin esterase as sustainable solutions for safer poultry production in Kenya
Dr Phillis Ochieng, *Nairobi University, Kenya and International Livestock Research Institute, Kenya*
- 15:00** Mitigation of the combined toxicity of AFB₁, DON and OTA in broiler breeder hens
Dr Lv-Hui Sun, *College of Animal Sciences and Technology, Huazhong Agricultural University, China*
- 15:15** Cutting-edge strategy to mitigate the effect of deoxynivalenol on swine
Dr Virginie Marquis, *Phileo by Lesaffre, France*
- 15:30** Networking break & poster viewing



Managing mycotoxins in a sustainable future

Chair Dr Sheryl Tittlemier, *Canadian Grain Commission, Canada*

16:00 Prioritization of mycotoxins for risk management action based on both public health risk and mitigation efficacy

Prof. Michele Suman, *Barilla SpA and Università Cattolica del Sacro Cuore, Italy*

16:15 Mouldy bread – a spoiled food waste or a future feedstock?

Dr Alessia Caprio, *FFoQSI Austrian Competence Centre for Feed and Food Quality, Safety & Innovation, Austria*

16:30 Ensuring the safety of plant-based meat alternatives: mycotoxin occurrence, risk-benefit assessment, and current research – Where we are and where we are supposed to be?

Dr Octavian Augustin Mihalache, *Department of Food and Drug, University of Parma, Italy*

16:45 The environmental impact of mycotoxin analysis: On the greenness of routine methods

Dr Stephan Freitag, *Department IFA-Tulln, BOKU Vienna, Austria*

WMF YOUNG SCIENTISTS FORUM

OKAPI ROOM 1

17:00 – 18:00

The challenges of conducting mycotoxin research

How to connect science to practical mycotoxin mitigation strategies

During this year's Young Scientist Forum, Selko invites young scientists, researchers, and students to share experiences and learn from each other. In today's fast-changing and evolving industry, it can be a challenge to define research needs and connecting them to 'real' scenarios and creating cost-effective solutions for grain and animal producers around the world.

How to find the right model for your research? Which biomarkers to apply? *In vitro* or *in vivo*? Single or multi-mycotoxin, or mycotoxins combined with other environmental challenges? What are emerging technologies and how can they improve mycotoxin research in the future? These and other questions will be discussed during the informal brainstorm session, while enjoying some snacks and drinks. We hope to connect business needs with science and invite those young of age as well as young at heart to join in.

ZOO TOUR & CONFERENCE DINNER

19:00 – 23:00 (*reservations only*)

Data-driven mycotoxin management

Chair Dr Kanniah Rajasekaran, *US Department of Agriculture, USA*

16:00 **An acronym soup for better risk assessment of DON: HBM, NAMs, TK-TD, MCMC, HDMI, and more!**

Prof. Weihsueh Chiu, *Department of Veterinary Physiology and Pharmacology, Texas A&M University, USA*

16:15 **A new *in silico* tool for the prediction of mutagenicity, genotoxicity, and carcinogenicity of over 4,000 mycotoxins**

Dr Martina Palomino-Schätzlein, *ProtoQSAR S.L., Spain*

16:30 **Predictive models to manage mycotoxin outbreaks in the USA**

Dr Lina Castano-Duque, *Food and Feed Safety Research, Agricultural Research Service, US Department of Agriculture, USA*

16:45 **Resilience of the food supply chain to food safety shocks: case of mycotoxins**

Prof. Ine van de Fels-Klerx, *Wageningen Food Safety Research, the Netherlands*

WMF YOUNG SCIENTISTS FORUM**OKAPI ROOM 1**

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ZOO TOUR & CONFERENCE DINNER

19:00 – 23:00 (*reservations only*)

Update on global mycotoxin research and new concepts

Chairs Prof. Franz Berthiller, *BOKU Vienna, Austria*
Dr Lindy Rose, *Stellenbosch University, South Africa*

08:45 NutriNuts: Success story of industrial partnership toward sustainable mitigation of aflatoxin in Africa

Dr Carol Verheecke-Vaessen, *Applied Mycology Group, Cranfield University, UK*

09:00 Multi-actor collaboration: Everyone at the table for improved mycotoxin risk analysis – A perspective for the European and the African Union

Dr Celine Meerpoel, *Centre of Excellence in Mycotoxicology and Public Health, Ghent University, Belgium*

09:15 The Food Safety Coalition project to address the challenges of aflatoxin contamination in raw materials

Dr Yueju Zhao, *Mars Global Food Safety Center, China*

09:30 Mycotoxins in Asia: Impact on food safety and international trade

Dr Awanwee Petchkongkaew, *Thammasat University and International Joint Research Centre on Food Security, Thailand*

09:45 Title TBC

Yuki Minato, *Department of Nutrition and Food Safety, World Health Organization (WHO), Switzerland*

10:00 Characterization of filamentous fungi and their metabolites in aquaponic production of herbs

Volha Akulava, *Faculty of Science and Technology, Norwegian University of Life Sciences, Norway*

10:15 Networking break & poster viewing

Novel and alternative techniques in mycotoxin analysis and fungal detection

Chairs Dr Mark Sumarah, *Agriculture and Agri-Food, Canada*
Dr Esther De Rycke, *Ghent University, Belgium*

- 08:45** Infrared spectroscopy in food safety: hype or hope
Prof. Boris Mizaikoff, *Institute of Analytical and Bioanalytical Chemistry, Ulm University, Germany*
- 09:00** Alternative approaches to the analysis of mycotoxins based on luminescent sensing coupled to biological or biomimetic molecular receptors
Dr Elena Benito Peña, *Faculty of Chemistry, Complutense University of Madrid, Spain*
- 09:15** Rapid onsite mycotoxin test using artificial intelligence and hyperspectral imaging
Shweta Gupta, *ImagoAI, USA*
- 09:30** Development of a portable microarray lateral flow immunosorbent assay for multiple mycotoxins detection
Dr Saowalak Adunphatcharaphon, *National Center for Genetic Engineering and Biotechnology, National Science and Technology Development Agency, Thailand*
- 09:45** Application of electronic nose for feed safety and animal nutrition
Dr Matteo Ottoboni, *Department of Veterinary Medicine and Animal Sciences, University of Milan, Italy*
- 10:00** Accurate and non-destructive monitoring of mould contamination in foodstuffs based on whole-cell biosensor array coupling with machine-learning prediction models
Prof. Fuguo Xing, *Institute of Food Science and Technology, Chinese Academy of Agricultural Sciences, China*
- 10:15** Networking break & poster viewing



Future perspectives

Chairs Prof. Rudolf Krska, *Department IFA-Tulln, BOKU Vienna, Austria*
 Prof. Chris Elliott, *Institute for Global Food Security, Queen's University Belfast, UK*

10:45 TBC

11:05 **The chicken tikka masala and the importance of data quality: when the analytical performance may become a real hurdle**
 Prof. Chiara Dall'Asta, *Department of Food and Drug, University of Parma, Italy*

11:25 **Shaping the future of mycotoxin management in Sub-Saharan Africa with pragmatism**
 Prof. Limbikani Matumba, *Faculty of Life Sciences and Natural Resources, Lilongwe University of Agriculture & Natural Resources, Malawi*

11:45 **Think global, act local – on-site mycotoxin management challenges in the light of global climate change**
 Ronald Niemeijer, *R-Biopharm, Germany*

12:05 **Mycotoxins and climate change: mission impossible for feed and food safety regulators?**
 Frans Verstraete, *Directorate-General for Health and Food Safety, European Commission, Belgium*

12:25 **BEST POSTER AWARD** – presented by Cargill

12:35 **Top Five Answers learned at WMFmeetsBelgium**
 Prof. Rudolf Krska and Prof. Chris Elliott

13:00 **Closing of WMFmeetsBelgium**
 Prof. Sarah De Saeger and Prof. Marthe De Boevre

13:30 – 14:30

DARWIN HALL

General Assembly of the International Society for Mycotoxicology (ISM)
 ISM aims to increase scientific knowledge concerning biology, chemistry and any sciences/disciplines related to mycotoxins and toxigenic fungi through membership networking, scientific meetings, symposia, discussions, technical courses and publications.

ISM's General Assembly is open to all participants of **WMFmeetsBelgium**.

Conference Secretariat

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