

CLIMATE CHANGE – GRAND CHALLENGE FOR A SUSTAINABLE, SAFE, AND INCLUSIVE FOOD FUTURE

- *Toxin-free food? (against the backdrop of climate change)*
Prof. Rudolf Krska, Department IFA-Tulln, BOKU Vienna, Austria
- *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
- *Mycotoxins: Climate change adaptation – a debate powered by the International Society for Mycotoxicology*
Debate leader: Prof. Sarah De Saeger, Centre of Excellence in Mycotoxicology and Public Health, Ghent University, Belgium

FOCUS ON MYCOTOXIGENIC FUNGI, PLANTS, AND SOIL

- *Root uptake and metabolization of Alternaria toxins into wheat plants using a hydroponic cultivation system*
Dr Ahmed H. El-Khatib, German Federal Institute for Risk Assessment, Germany
- *Resistance to Aspergillus flavus infection and aflatoxin contamination in maize*
Dr Kanniah Rajasekaran, Food and Feed Safety Research, ARS, US Department of Agriculture, USA
- *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, Chinese Academy of Agricultural Sciences, China

SAMPLING AND MASS SPECTROMETRY-BASED APPROACHES FOR MYCOTOXIN ANALYSIS

- *A quality control scheme designed to assess sample preparation performance*
Dr Sheryl Tittlemier, Grain Research Laboratory, Canadian Grain Commission, Canada
- *Challenges towards sampling and analysis of ergot alkaloids in wheat gluten*
Dr Johan De Meester, Cargill, Belgium
- *Recent advances in mycotoxin analysis at FDA*
Dr Kai Zhang, Center for Food Safety and Applied Nutrition, Food and Drug Administration, USA
- *Interlaboratory study to normalize LC-MS mycotoxin determination using the N - alkylpyridinium-3-sulfonates retention index system*
Dr Mark Sumarah, Agriculture and Agri-Food Canada, Canada
- *Comparison of UHPLC-MS/MS methodologies for human biomonitoring of multiple mycotoxins in serum*
Dr. Roger Peró Gascón, Faculty of Pharmaceutical Sciences, Ghent University, Belgium
- *Ergot alkaloids in cereals, results and trends from a 6-year study of industry monitoring*
Dr Susan MacDonald, Fera Science Limited, UK

MYCOTOXIN EXPOSURE ASSESSMENT AND HUMAN HEALTH

- *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
- *Unravelling the toxicokinetics of tenuazonic acid through a human toxicokinetic trial*
Lia Visintin, Faculty of Pharmaceutical Sciences, Ghent University, Belgium

- *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
- *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
- *Exposomics study for investigating mycotoxins exposure and the association with biomolecular markers of aging and birth outcomes in rural Burkina Faso*
Yuro Bastos Moreira, Faculty of Pharmaceutical Sciences, Ghent University, Belgium

MYCOTOXINS AND THEIR IMPACT ON ANIMAL HEALTH

- *Double trouble: Mycotoxins and sub acute rumen acidosis' impact on lactate-utilizing Megashpaera sp. in dairy cows – a rumen simulation system study*
Cameron Strachan, Unit of Food Microbiology, University of Veterinary Medicine, Austria
- *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
- *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, ARS, US Department of Agriculture, USA
- *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
- *Mycotoxin biomarkers for livestock species: How far have we come?*
Dr Veronika Nagl, DSM, Austria

MANAGING AND MITIGATING MYCOTOXIN RISKS

- *Potential mitigation strategies for free and modified Fusarium mycotoxins in oats*
Dr Silvia Gratz, Rowett Institute, University of Aberdeen, UK
- *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
- *title to be confirmed*
Dr Gunnar Sundstøl Eriksen, Toxinology Research Group, Norwegian Veterinary Institute, Norway
- *The need for HACCP-approach to manage mycotoxins in animal products*
Dr Swamy Haladi, Selko, India

MYCOTOXINS AND ANIMAL PERFORMANCE

- *Occurrence of pathogenic fungi in aquaponic production*
Volha Akulava, Norwegian University of Life Sciences, Norway
- *Impact of enniatins in fish (preliminary title)*
Dr Kai Kristoffer Lie, Institute of Marine Research, Norway
- *Complementary modes of action of a mycotoxin deactivator can support health and performance of animals*
Dr Damien Prévéraud, Adisseo, France
- *Cutting-edge strategy to mitigate the effect of deoxynivalenol on swine*
Dr Virginie Marquis, Phileo by Lesaffre, France

MYCOTOXIN MANAGEMENT IN A SUSTAINABLE FUTURE

- *Prioritization of mycotoxins for risk management action based on both public health risk and mitigation efficacy*
Prof. Michele Suman, Barilla, Italy
- *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
- *Mouldy bread – a spoiled food waste or a future feedstock?*
Dr Alexandra Malachova, FFoQSI Austrian Competence Centre for Feed & Food Quality, Austria
- *The greenness of mycotoxin analysis*
Dr Stephan Freitag, University of Natural Resources and Life Sciences, Vienna, Austria

MODELLING, DATA MANAGEMENT, AND AI

- *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
- *Predictive models to manage mycotoxin outbreaks in the USA*
Dr Lina Castano-Duque, ARS, US Department of Agriculture, USA

UPDATE ON GLOBAL MYCOTOXIN RESEARCH

- *NutriNuts: Success story of industrial partnership toward sustainable mitigation of aflatoxin in Africa*
Dr Carol Verheecke-Vaessen, Applied Mycology Group, Cranfield University, UK
- *Multi-actor collaboration: everyone at the table for improved mycotoxin risk analysis – a perspective for the European and the African Union*
Dr Celine Meerpoel, Faculty of Pharmaceutical Sciences, Ghent University, Belgium
- *The Food Safety Coalition project to address the challenges of aflatoxin contamination in raw materials*
Dr Yuju Zhao, Mars Global Food Safety Center, China

NOVEL AND ALTERNATIVE TECHNIQUES IN MYCOTOXIN ANALYSIS

- *Infrared spectroscopy in food safety: hype or hope*
Prof. Boris Mizaikoff, Ulm University, Germany
- *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
- *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.