

Conference Agenda

44th Mycotoxin Workshop 2023

Date: Tuesday, 06/June/2023

8:00am Registration II

9:00am Food Safety II

10:00am 9:00am - 9:15am

Mycotoxin contamination in the Arab world: Highlighting the main knowledge gaps and discussing the current legislations

Mohamed Fathi Abdallah¹, Muhammad Gado², Doha Abdelsadek³, Fatma Zahran⁴, Nada N. El-Salhey⁵, Ohaila Mehrez⁶, Sara Abdel-Hay⁷, Sahar Mahrous⁸, Karl De Ruyck⁹, Elisabeth Varga¹⁰

1: Department of Veterinary Toxicology and Forensic Medicine, Assiut University, Assiut 71515, Egypt; 2: Faculty of Pharmacy, Mansoura University, Mansoura 35516, Egypt; 3: Faculty of Pharmacy, Cairo University, Cairo 12613, Egypt; 4: Faculty of Pharmacy, Menoufia University, Menoufia 6131567, Egypt; 5: Faculty of Pharmacy, Kafrelsheikh University, Kafrelsheikh 33516, Egypt; 6: Faculty of Pharmacy, Ain Shams University 11566, Cairo, Egypt; 7: Faculty of Pharmacy, Tanta University, Tanta 31527, Egypt; 8: Department of Chemistry, Faculty of Science, Sohag University, Sohag 82524, Egypt; 9: Teagasc Food Research Centre, Ashtown, Dublin 15 D15 KN3K, Ireland; 10: Department of Food Chemistry and Toxicology, Faculty of Chemistry, University of Vienna, 1090 Vienna, Austria

9:15am - 9:30am

Mycotoxins in insects for food and feed

Ronald Maul¹, Kim Lara Gützkow¹, Nina Kröncke², Johanna Ebmeyer³, Nadja Kampschulte⁴, Linda Böhmert³, Cindy Schöne⁵, Nils Helge Schebb⁴, Albert Braeuning³, Rainer Benning²

1: Max Rubner-Institut Federal Research Institute of Nutrition and Food, Germany; 2: University of Applied Sciences Bremerhaven, Germany; 3: German Federal Institute for Risk Assessment, Department Food Safety, Germany; 4: University of Wuppertal, Faculty of Mathematics and Natural Sciences, Chair of Food Chemistry, Germany; 5: German Federal Institute for Risk Assessment, Department Safety in the Food Chain, Germany

9:30am - 9:45am

T-2 and HT-2 toxins in milling oats and oat kernels

Jens Chr. Meyer

H. & J. Brüggem KG, Germany

9:45am - 10:00am

Cyclodextrins as potential mycotoxin binders: the summary of earlier and recent studies

Miklós Poór, Eszter Fliszár-Nyúl

Department of Pharmacology, Faculty of Pharmacy, University of Pécs, Pécs, Hungary

10:00am Coffee break III

10:30am

10:30am Health / Exposure

11:45am 10:30am - 10:45am

Ochratoxin A and Parkinson disease: is there a link?

Ariane Vettorazzi^{1,4}, Maria Serrano¹, Elba Beraza¹, Maria Izco², Amaya Azqueta^{1,4}, Elena Gonzalez-Peñas³, Adela Lopez de Cerain^{1,4}, Lydia Alvarez-Erviti²

1: Department of Pharmacology and Toxicology, MITOX Research Group, School of Pharmacy and Nutrition, University of Navarra, Pamplona, Spain; 2: Laboratory of Molecular Neurobiology, Center for Biomedical Research of La Rioja (CIBIR), Logroño, Spain; 3: Department of Pharmaceutical Technology and Chemistry, MITOX Research Group, School of Pharmacy and Nutrition, University of Navarra, Pamplona Spain; 4: IdiSNA, Navarra Institute for Health Research, Pamplona, Spain

10:45am - 11:00am

The epigenetic interplay of mycotoxins & Epstein Barr virus towards childhood cancer

Thanos Mouchtaris Michailidis^{1,2,4}, Sarah De Saeger^{1,2,3}, Rita Khoueir⁴, Grace Akinyi Odongo⁴, Laura Corveleyn^{2,5}, Maarten Dhaenens^{2,5}, Zdenko Herceg⁴, Marthe De Boevre^{1,2}

1: Ghent University, Ghent, Belgium; 2: CRIG, Cancer Research Institute Ghent, Ghent, Belgium; 3: Department of Biotechnology and Food Technology, Faculty of Science, University of Johannesburg, Doornfontein Campus, Gauteng, South Africa; 4: Epigenomics and Mechanisms Branch, International Agency for Research on Cancer/World Health Organization,

Lyon, France; 5: Laboratory of Pharmaceutical Biotechnology, Faculty of Pharmaceutical Sciences, Ghent University, Gent, Belgium

11:00am - 11:15am

Short-time exposure to the Fusarium mycotoxins deoxynivalenol and zearalenone in cows fed a diet inducing rumen acidosis

Lydia Kroon¹, Ant Koopmans¹, Antonio Gallo², Janine Saltzmann³, Sven Dänicke³, Ermino Trevisi², Regiane R Santos¹

1: Schothorst Feed Research, P.O. Box 533, 8200 AM Lelystad, The Netherlands; 2: Department of Animal Science, Food and Nutrition (DIANA), Faculty of Agricultural, Food and Environmental Sciences, Università Cattolica del Sacro Cuore, 29122 Piacenza, Italy; 3: Institute of Animal Nutrition, Friedrich-Loeffler-Institute (FLI), Federal Research Institute for Animal Health, D-38116 Brunswick, Germany

11:15am - 11:30am

New insights on Citrinin exposure in German children and adults from a urine biomarker study

Gisela H. Degen¹, Jörg Reinders¹, Martin Kraft², Yvonne Chovolou², Wolfgang Völkel³, Felicia Gerull⁴, Jan G. Hengstler¹, Hermann Fromme⁵

1: Leibniz Research Centre for Working Environment and Human Factors, Germany; 2: Landesamt für Natur, Umwelt und Verbraucherschutz NRW; D-45133 Essen, Germany; 3: Bayerisches Landesamt für Gesundheit und Lebensmittelsicherheit, D-80538 München; 4: Landeslabor Berlin-Brandenburg, Fachbereich IV-4, D-12489 Berlin; 5: Institut und Poliklinik für Arbeits-, Sozial- und Umweltmedizin, D-80336 München

11:30am - 11:45am

Walls in Camouflage: Searching for Molds and Mycotoxins in Military Settings

Wiebke Derz¹, Paul Elsinghorst^{1,2}

1: Central Institute of the Bundeswehr Medical Service Munich, 85748 Garching, Germany; 2: Institute of Nutrition and Food Sciences, University of Bonn, 53121 Bonn, Germany

11:45am

Lunch II

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1:45pm

1:45pm

Toxicology II

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3:00pm

1:45pm - 2:00pm

Analysing epigenetic toxicity caused by multi-mycotoxin exposure using an intestinal and hepatic cell culture model

Yasmine Bader

University Ghent, Belgium

2:00pm - 2:15pm

New challenges in genotoxicity testing: the case of the Alternaria mycotoxins alternariol and altertoxin II

Francesco Crudo¹, Chenyifan Hong¹, Vanessa Partsch¹, Giorgia Del Favero¹, Luca Dellafiora², Doris Marko¹

1: Department of Food Chemistry and Toxicology, Faculty of Chemistry, University of Vienna, Vienna, Austria; 2: Department of Food and Drug, University of Parma, Parma, Italy

2:15pm - 2:30pm

Does replication stress play a role in Ochratoxin A genotoxicity?

Christina Klotz, Julian Brode, Johannes Borchers, Angela Mally

University Würzburg, Germany

2:30pm - 2:45pm

Pitfalls and challenges when evaluating combinatory effects – a case study on zearalenone and isoflavones

Dino Grgic^{1,2}, Barbara Novak³, Elisabeth Varga¹, Doris Marko¹

1: University of Vienna, Faculty of Chemistry, Department of Food Chemistry and Toxicology, Vienna, Austria; 2: University of Vienna, Doctoral School in Chemistry, Vienna, Austria; 3: DSM-Biomin Reserach Center, Tulln, Austria

2:45pm - 3:00pm

Alternariol-sulfates as neglected conjugation products with toxicological potential

Eszter Borsos^{1,2}, **Luca Dellafiora**³, **Chiara Dall'Asta**³, **Giorgia Del Favero**^{1,4}, **Elisabeth Varga**¹, **Doris Marko**¹

1: Department of Food Chemistry and Toxicology, University of Vienna, Vienna, Austria; 2: Doctoral School in Chemistry, University of Vienna, Vienna, Austria; 3: Department of Food and Drug, University of Parma, Parma, Italy; 4: Core Facility Multimodal Imaging, Faculty of Chemistry, University of Vienna, Vienna, Austria

3:00pm

Coffee break IV

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3:30pm

3:30pm

Toxicology III

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4:15pm

3:30pm - 3:45pm

New possibilities in mycotoxin research by functional intravital imaging

Ahmed Ghallab^{1,2}, **Reham Hassan**^{1,2}, **Maiju Myllys**¹, **Daniela González**¹, **Abdellatif Seddek**², **Andrea Gerdemann**³, **Michael Kuhn**³, **Benedikt Cramer**³, **Hans Ulrich Humpf**³, **Gisela H. Degen**¹, **Jan G. Hengstler**¹

1: Leibniz Research Centre for Working Environment and Human Factors, Technical University Dortmund, Ardeystr. 67, 44139 Dortmund, Germany; 2: Department of Forensic Medicine and Toxicology, Faculty of Veterinary Medicine, South Valley University, Qena 83523, Egypt; 3: Institute of Food Chemistry, Westfälische Wilhelms-Universität Münster, Corrensstr. 45, 48149 Münster, Germany

3:45pm - 4:00pm

Insights into the metabolism, kinetics and related toxicity of ochratoxin A in mice models

Michael Kuhn¹, **Reham Hassan**², **Benedikt Cramer**¹, **Ahmed Ghallab**², **Gisela H. Degen**², **Jan G. Hengstler**², **Hans-Ulrich Humpf**¹

1: Institute of Food Chemistry, University of Muenster; 2: Leibniz Research Centre for Working Environment and Human Factors, Technical University Dortmund

4:00pm - 4:15pm

Species differences of aflatoxin B1 metabolism in primary mouse, rat and human hepatocytes and in vivo in rodents

Andrea Gerdemann¹, **Benedikt Cramer**¹, **Matthias Behrens**¹, **Ahmed Ghallab**², **Reham Hassan**², **Gisela H. Degen**², **Jan G. Hengstler**², **Melanie Esselen**¹, **Hans-Ulrich Humpf**¹

1: Institute of Food Chemistry, University of Münster, Münster, Germany; 2: Leibniz Research Centre for Working Environment and Human Factors (IfADo), Dortmund, Germany

4:30pm

Activities II

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5:30pm

6:30pm

Conference Dinner