

Conference Agenda

42nd Mycotoxin Workshop 2021 May 31st – June 2nd 2021

Date: Monday, 31/May/2021

9:00am **Welcome: Opening of the 42nd Mycotoxin Workshop 2021**

- Chair: **Manfred Gareis**, Society for Mycotoxin Research

9:20am Chair: **Hans-Ulrich Humpf**, WWU Münster

9:20am **Biomonitoring 1: New developments in the field of human biomonitoring of mycotoxins**

- Chair: **Gisela H. Degen**, Leibniz-Institut für Arbeitsforschung an der TU Dortmund (IfADo)

10:35am Chair: **Marthe De Boevre**, Ghent University

9:20am - 9:35am

Multiple Mycotoxin Exposure and Risk Assessment among a Rural Pakistan Population by Human Biomonitoring Approach

Lei Xia¹, Hifza Rasheed², Michael Routledge³, Hang Wu³, Yunyun Gong¹

1: School of Food Science & Nutrition, University of Leeds, Leeds, UK; 2: Pakistan Council of Research in Water Resources, Islamabad, Pakistan; 3: School of Medicine, University of Leeds, Leeds, UK

9:35am - 9:50am

Biomarkers of Deoxynivalenol (DON) and Its Modified Form DON-3-Glucoside (DON-3G) in Humans

Qinghua Wu, Ying Deng

College of Life Science, Yangtze University, Jingzhou 434025, China

9:50am - 10:05am

Ochratoxin A and Citrinin in Serum of Blood Donors

Alexandra Jaus, Peter Rhyh, Max Haldimann, Céline Fragnière Rime, Judith Jenny-Burri, Otmär Zoller

Federal Food Safety and Veterinary Office, Switzerland

10:05am - 10:20am

Assessment of Multi-Mycotoxin Exposure in a Rural County of Chile by Urinary Biomarker Determination and Association with Food Consumption

Claudia Foerster¹, Gisela Rios-Gajardo², Carlos Maldonado¹, Sandra Cortés³, Catterina Ferreccio³

1: Universidad de O'Higgins, Chile; 2: Universidad de Concepción, Chile; 3: Pontificia Universidad Católica de Chile, Chile

10:20am - 10:35am

Exposure Assessment of the Portuguese Population to Multiple Mycotoxins – a Human Biomonitoring Study

Carla Martins^{1,2,3,4}, Ricardo Assunção^{1,2,3,4}, Arnau Vidal⁵, Marthe De Boevre⁵, Sarah De Saeger⁵, Duarte Torres Torres^{6,7}, Ana Goios^{6,7}, Carla Lopes^{7,8}, Paula Alvito^{7,8}, Carla Nunes^{1,2}

1: NOVA National School of Public Health, Public Health Research Centre, Universidade NOVA de Lisboa, Lisbon, Portugal; 2: Comprehensive Health Research Center (CHRC), Lisbon, Portugal; 3: National Institute of Health Dr Ricardo Jorge, Lisbon, Portugal; 4: CESAM - Centre for Environmental and Marine Studies, University of Aveiro, Aveiro, Portugal; 5: Centre of Excellence in Mycotoxicology and Public Health, Faculty of Pharmaceutical Sciences, Ghent University, Ghent, Belgium; 6: Faculty of Nutrition and Food Sciences, University of Porto, Porto, Portugal; 7: Epidemiology Research Unit, Institute of Public Health, University of Porto, Porto, Portugal; 8: Faculty of Medicine, University of Porto, Portugal

11:00am - 12:15pm Analytical developments: Recent developments in the field of mycotoxin analysis

Chair: Sarah De Saeger, Ghent University
Chair: Michael Sulyok, Universität für Bodenkultur Wien

11:00am - 11:15am

SPONSOR: CrossTOX – Non dispersive SPE Clean-up for LC-MS/MS Multi Mycotoxin Analysis in Different Matrices.

Frederik, N. Wuppermann, Uwe Aulwurm, Angelika Köpf
LC Tech GmbH, Germany

11:15am - 11:30am

Online SPE-UHPLC-MS/MS for Rapid and Sensitive Analysis of Mycotoxins in Urine

Jessica Schmidt¹, Benedikt Cramer¹, Paul C. Turner², Rebecca Stoltzfus^{3,4}, Jean Humphrey⁵, Laura E. Smith⁶, Hans-Ulrich Humpf¹

¹Institute of Food Chemistry, Westfälische Wilhelms-Universität Münster, Germany; ²MIAEH, School of Public Health, University of Maryland, College Park, MD, USA; ³Division of Nutritional Sciences, Cornell University, Ithaca, NY, USA; ⁴Current address: Goshen College, 1700 S. Main Street, Goshen, IN, USA; ⁵Department of Population Medicine and Diagnostic Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA; ⁶Department of Population Medicine and Diagnostics, Cornell University, Ithaca, NY, USA

11:30am - 11:45am

The Magic of In-Sample Calibration: Matrix-Matching Every Sample

Wiebke Derz^{1,2}, 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 - 12:00pm

To Filtrate or Not to Filtrate – Does it Make a Difference? – A Case Story on Alternaria Metabolites

Hannes Puntscher, Georg Aichinger, Elisabeth Varga, Natálie Živná, Francesco Crudo, Benedikt Warth, Doris Marko
University of Vienna, Faculty of Chemistry, Department of Food Chemistry and Toxicology, Austria

12:00pm - 12:15pm

Deoxynivalenol Quantification of Single Wheat Kernels by Near Infrared Hyperspectral Imaging

Antoni Femenias, Antonio J. Ramos, Vicente Sanchis, Sonia Marin

University of Lleida, Spain

1:00pm - 2:15pm Biomonitoring 2 / Indoor: Human biomonitoring of mycotoxins and exposure through indoor environments

Chair: Yunyun Gong, University of Leeds
Chair: Christoph Gottschalk

1:00pm - 1:15pm

SPONSOR: To be announced. Lecture provided by Waters / Vicam

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Waters / Vicam

1:15pm - 1:30pm

Experimental Archaeology Reveals Potential Health Risk in Ancient Populations due to Storage Mycotoxins

Jean-Michel Savoie¹, Eric Yebdri², Sylvain Chéreau¹, Francis Fleurat-Lessard³, Jérôme Ros⁴, Cécile Dominguez²

1: INRAE, UR1264 MycSA France; 2: Inrap, France; 3: Insecto Net IAA, France; 4: CNRS, UMR5554 ISEM, France

1:30pm - 1:45pm

Mould Infested Building Materials: A Novel Method for Mycotoxin Quantitation Using UHPLC-MS/MS

Viktoria Lindemann¹, Tim Schleiner², Benedikt Cramer¹, Hubert Fels², Hans-Ulrich Humpf¹

1: Institute of Food Chemistry, Westfälische Wilhelms-Universität Münster, Corrensstraße 45, 48149 Münster, Germany; 2: Umweltlabor ACB GmbH, Albrecht-Thaer-Straße 14, 48147 Münster, Germany

1:45pm - 2:00pm

Gliotoxin: A Promising Bidirectionally Exclusive Marker for Both Indoor Microfungal Mycotoxin Dust-contamination Hazard as well as Human Aspergillus Infection, Correlating with Neurological Disease and Multiple Immune Deficiencies.

Irene Hanchett Grant¹, Noemi Olivo², Jake Geller³, Herman Sabath⁴, Harriet Maria Ammann⁵

1: Integrative Medicine Group, United States of America; 2: CRO Services; 3: Geller Consulting Associates; 4: Indoor Environmental Diagnostics & Solutions, LLC United States of America; 5: Consultant

2:00pm - 2:15pm

Mechanic Protection Gloves Used in Waste Sorting Industry: Suitable as Passive Method to Sample for Fungal Burden

Carla Viegas^{1,2,3}, Marta Dias¹, Beatriz Almeida¹, Anita Quintal Gomes^{1,4}, Magdalena Twaruzek⁵, Robert Kosicki⁵, Jan Grajewski⁵, Susana Viegas^{1,2,3}

1: &TRC- Health & Technology Research Center, ESTeSL- Escola Superior de Tecnologia da Saúde, Instituto Politécnico de Lisboa; 2: NOVA National School of Public Health, Public Health Research Centre, Universidade NOVA de Lisboa; 3: Comprehensive Health Research Center (CHRC); 4: University of Lisbon Institute of Molecular Medicine, Faculty of Medicine, Lisbon, Portugal; 5: Faculty of Biological Sciences, Department of Physiology and Toxicology Kazimierz Wielki University Bydgoszcz Poland

Parallel Short Poster-Style Presentations

2:30pm
-
4:00pm

Session 1
Analytical developments

Session 2
Climate - Occurrence - Processing

Session 3
Toxicology 1

Date: Tuesday, 01/June/2021

9:00am - 10:15am Toxicology 1: New insights into the toxicity and mode of action of mycotoxins

Chair: **Doris Marko**, University of Vienna
Chair: **Melanie Esselen**, WWU Münster

9:00am - 9:15am

Emerging Mycotoxins Trigger Ferroptotic Cell Death in a Fish Primary Cell Model by Affecting Oxidative Phosphorylation

Sofie Söderström, Liv Søfteland, Kai Kristoffer Lie
Institute of Marine Research (IMR), Norway

9:15am - 9:30am

Investigation of Exposure to Mycotoxins as Possible Carcinogens

Liesel Claeys^{1,2,3,4}, Inge Huybrechts^{2,4}, Marthe De Boevre^{3,4}, Claire Renard¹, Marie-Pierre Cros¹, Beatrice Fervers⁵, Marc Gunter², Sarah De Saeger^{3,4}, Michael Korenjak¹, Jiri Zavadil¹

1: Molecular Mechanisms and Biomarkers Group, IARC, Lyon, France; 2: Nutritional Epidemiology Group, IARC, Lyon, France; 3: Centre of Excellence in Mycotoxicology and Public Health, Ghent University, Ghent, Belgium; 4: Cancer Research Institute Ghent (CRIG), Ghent, Belgium; 5: Department of Cancer and Environment, Centre Léon Bérard, 28 Promenade Léa et Napoléon Bullukian, 69008 Lyon, France

9:30am - 9:45am

The *in vitro* Modulation of Intestinal Growth and Inflammatory indices by Fumonisin B1 (FB1) and Hydrolysed Fumonisin B1 (HFB1)

Mariska Lilly¹, Nabeela Gamiet¹, Stefan Abel¹, Elisabeth Mayer²
1: Cape Peninsula University of technology; 2: BIOMIN, Austria

9:45am - 10:00am

Toxicological Evaluation of Selected Mycotoxins using the Zebrafish Model System

Victor Kagot^{1,3}, Marthe De Boevre¹, Paul Coucke², Hanna De Saffel², Andy Willaert², Sheila Okoth³, Sarah De Saeger^{1,4}

1: Centre of Excellence in Mycotoxicology & Public Health, Faculty of Pharmaceutical Sciences- Ghent University, Ghent-Belgium; 2: Center for Medical Genetics Ghent (CMGG), Department of Biomolecular Medicine- Ghent University Hospital, Ghent-Belgium.; 3: School of Biological sciences- Nairobi University, Nairobi- Kenya.; 4: Department of Biotechnology and Food Technology, Faculty of Science, University of Johannesburg, Doornfontein Campus, Gauteng, Johannesburg-South Africa.

10:00am - 10:15am

Mitochondrial Toxicity and Changes to Cellular Bioenergetics by Fusarium Mycotoxins - Alternate Mechanisms of Action

Naeem Sheik Abdul, Jeanine Marnewick

Applied Microbial and Health Biotechnology Institute, Cape Peninsula University of Technology, South Africa

10:45am - 12:00pm Toxicology 2: New insights into the toxicity and mode of action of mycotoxins

Chair: **Leane Lehmann**, University of Würzburg
Chair: **Mariska Lilly**, Cape Peninsula University of Technology

10:45am - 11:00am

Ochratoxin A Exposure Induces Key Pathological Features of Parkinson's Disease in the Brain *in vitro* and *in vivo*

Ariane Vettorazzi^{1,2}, Maria Izco³, Elena González-Peñas⁴, Adela López de cerain^{1,2}, Lydia Alvarez-Erviti³

1: Department of Pharmacology and Toxicology, Faculty of Pharmacy and Nutrition, Universidad de Navarra, Spain; 2: IdiSNA, Navarra Institute for Health Research, Spain; 3: Center for Biomedical Research of La Rioja. (CIBIR), Fundacion Rioja Salud, Spain; 4: Department of Pharmaceutical Technology and Chemistry, Faculty of Pharmacy and Nutrition, Universidad de Navarra, Spain

11:00am - 11:15am

On the Estrogenic Activity of Alternariol and its Dibenzo- α -pyrone Scaffold: A Target Fishing Study to Mine Novel Biological Targets

Luca Dellaflora¹, Daniele Del Rio², Gianni Galaverna¹, Chiara Dall'Asta¹

1: Department of Food and Drug, University of Parma, Italy; 2: Department of Veterinary Sciences, University of Parma, Italy

11:15am - 11:30am

Combined *Alternaria alternata* Toxins Activate the Aryl Hydrocarbon Receptor Pathway and Alter the Colonic Immune Response *in vitro*

Julia Hohenbichler¹, Georg Aichinger², Veronika Spindler², Gudrun Pahlke¹, Michael Rychlik², Giorgia Del Favero¹, Doris Marko¹

1: University of Vienna, Austria; 2: Technical University of Munich, Germany; 3: ETH Zürich, Switzerland

11:30am - 11:45am

Ribosome Inhibition Induced by Deoxynivalenol Exacerbates DNA Damage Caused by Various Mutagens

Marion Garofalo^{1,2}, Delphine Payros^{1,2}, Eric Oswald^{2,3}, Jean-Philippe Nougayrède², Isabelle Oswald¹

1: Toxalim (Research Centre in Food Toxicology), Université de Toulouse, INRAE, ENVT, INP-Purpan, UPS, Toulouse, France; 2: IRSD, Université de Toulouse, INSERM, INRAE, ENVT, UPS, Toulouse, France; 3: CHU Toulouse, Hôpital Purpan, Service de Bactériologie-Hygiène, Toulouse, France

11:45am - 12:00am

***In vitro* Interactions of Alternaria Mycotoxins with the Gut Microbiota: A Bidirectional Relationship**

Francesco Crudo^{1,2}, Georg Aichinger¹, Jovana Mihajlovic³, Elisabeth Varga¹, Luca Dellaflora², Benedikt Warth¹, Chiara Dall'Asta², David Berry^{1,3,4}, Doris Marko^{1,2}

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; 3: Department of Microbiology and Ecosystem Science, Centre for Microbiology and Environmental Systems Science, University of Vienna, Vienna, Austria; 4: Joint Microbiome Facility of the Medical University of Vienna and the University of Vienna, Vienna, Austria

Parallel Short Poster-Style Presentations

1:00pm

-
2:00pm

Session 1
Biomonitoring

Session 2
Fungal control and mycotoxin formation

Session 3
Toxicology 2

2:00pm

-
2:15pm

Awarding of the Brigitte Gedek Prize

Chair: **Manfred Gareis**, President, Society for Mycotoxin Research

Chair: **Madeleine Plötz**, Vice President Society for Mycotoxin Research

2:30pm

-
3:30pm

Meeting of The Society for Mycotoxin Research

Date: Wednesday, 02/June/2021

9:00am - 10:15am Toxicology 3 and Phytopathology: Effects of mycotoxins on plants and animals

Chair: **Naresh. Magan**, Cranfield University
Chair: **Olivier Puel**, INRAE

9:00am - 9:15am

Predicting Mycotoxin Toxicity using Mass-Spectrometry Profiling

Laura Soler Vasco, Valérie Labas, Ana Paula Teixeira-Gomes, Charles Banliat, Isabelle Paula Oswald
INRAE, France

9:15am - 9:30am

Calcination Improves the *in vivo* Efficacy of a Tunisian Clay to Bind Aflatoxin G₁ in Broiler Chickens: A Toxicokinetic Approach

Roua Rejeb^{1,2}, Siegrid De Baere³, Mathias Devreese³, Richard Ducatelle², Siska Croubels³, Madiha Hadj Ayed¹, Gunther Antonissen^{2,3}

1: Laboratory of Management Control of animal and environmental resources in a semi-arid environment (LR18AG01)-Sousse University, ISA-CM-BP 47, 4042 Sousse, Tunisia; 2: Faculty of Veterinary Medicine, Merelbeke, Ghent University/ Higher Institut of Agricultural Science, Sousse University, Belgium; 3: Department of Pharmacology, Toxicology and Biochemistry, Faculty of Veterinary Medicine, Ghent University, Salisburylaan 133, 9820 Merelbeke, Belgium

9:30am - 9:45am

Levels of Mycotoxin Biomarkers in Urine and Serum After Experimental Exposure of the Pigs to Contaminated Feed

Agnieszka Tkaczyk¹, Piotr Jedziniak¹, Łukasz Zielonka², Michał Dąbrowski², Piotr Ochodzki³, Adrianna Rudawska¹

1: National Veterinary Research Institute, Department of Pharmacology and Toxicology, Pulawy, Poland; 2: Department of Veterinary Prevention and Feed Hygiene, Faculty of Veterinary Medicine, University of Warmia and Mazury in Olsztyn, Olsztyn, Poland; 3: Department of Plant Pathology, Plant Breeding and Acclimatization Institute - National Research Institute, Blonie, Poland

9:45am - 10:00am

Investigation of the Transfer of Alternaria Toxins into Wheat Plants using a Hydroponic Cultivation System

Julia Jaster-Keller¹, Nicole Lorenz¹, Arnold Bahlmann¹, Marina E.H. Müller²

1: German Federal Institute for Risk Assessment (BfR), Berlin, Germany; 2: Leibniz-Centre for Agricultural Landscape Research, Müncheberg, Germany

10:00am - 10:15am

Priority Effects Influence the Production of Mycotoxins of Fusarium and Alternaria

Annika Hoffmann¹, Gunnar Lischeid¹, Matthias Koch², Peter Lentzsch¹, Marina E. H. Müller¹

1: Leibniz-Zentrum für Agrarlandschaftsforschung (ZALF) e. V., Germany; 2: Bundesanstalt für Materialforschung und -prüfung (BAM), Germany

10:45am - 12:00pm

Climate Change: Impact of climate change on fungal growth, mycotoxin production and control

Chair: **Susana Viegas**, National School of Public Health, NOVA University of Lisbon
Chair: **Katherine Munoz**, University Koblenz-Landau

10:45am - 11:00am

Impacts of Environmental Factors on Ochratoxigenic Fungi and the Insights on Their Regulatory Mechanism

Gang Wang¹, Haiyong Zhang¹, Yang Liu², Fuguo Xing¹

1: Institute of Food Science and Technology, Chinese Academy of Agricultural Sciences (CAAS), China, People's Republic of; 2: School of Food Science and Engineering, Foshan University

11:00am - 11:15am

Implanting of *Aspergillus section Flavi* in French Maize Fields in Relation with Climate Changes

Sylviane Bailly², Anwar El Mahgubi¹, Ophélie Rocher³, Olivier Puel³, Beatrice Orlando⁴, Jean-Denis Bailly¹

1: Ecole Nationale Vétérinaire de Toulouse, France; 2: Ecole d'Ingenieur de Purpan, Toulouse, France; 3: Toxalim research center, INRAE, Toulouse, France; 4: Arvalis institut du végétal, Boigneville, France

11:15am - 11:30am

Climate Change Abiotic Conditions Produce Changes in the Kinetics of *Aspergillus flavus* Transcriptomic and Metabolomic Profiles

Angel Medina¹, Mathew Gilbert², Esther Garcia-Cela^{1,3}, L. Castano Duque², Carol Verheeecke-Vaessen¹, Brian Mack², Michael Sulyok⁴, Deepak Bhatnagar², Naresh Magan¹

1: Cranfield University, United Kingdom; 2: USDA/Agricultural Research Service, USA; 3: University of Hertfordshire, United Kingdom; 4: University of Natural Resources and Life Sciences, Austria

11:30am - 11:45am

Use of Probabilistic Models to Understand the Growth and Mycotoxin Production by *Fusarium* species in Small Grain Cereals

Esther Garcia-Cela¹, Carol Verheeecke-Vaessen², Naresh Magan², Angel Medina², Inga Ósk Jónsdóttir²

1: University of Hertfordshire, United Kingdom; 2: Cranfield University

11:45am - 12:00pm

Impact of Climate Change Conditions on *Fusarium spp.* From Oats and their Associated Mycotoxin Production

Carol Verheeecke-Vaessen¹, Amal Kahla², Alejandro Lopez¹, Angel Medina¹, Esther Garcia-Cela^{1,3}, Fiona Doohan², Naresh Magan¹

1: Applied Mycology Group, Environment and AgriFood Theme, Cranfield University, Cranfield, Beds. MK43 0AL, UK; 2: School of Biology and Environmental Science and Earth Institute, College of Science, University College Dublin, Belfield, Dublin 4, Ireland; 3: Biological and Environmental Sciences, School of Life and Medical Sciences, University of Hertfordshire, Hatfield, AL109AB, UK.

1:00pm
-
2:15pm

Genetics / Metabolites: Regulation of mycotoxin biosynthesis and fungal metabolites

Chair: Svetlana Kalinina, WWU Münster
Chair: Annika Jagels, University of Florida

1:00pm - 1:15pm

EXUDATES: A Way to Conquer the External Environment by *Penicillium expansum*

Ophélie Rocher¹, Zetina Chrystian¹, Pichereaux Carole², Sophie Lorber¹, Comera Christine¹, Olivier Puel¹

1: Toxalim (Research Centre in Food Toxicology), Université de Toulouse, INRAE, ENVT, INP-Purpan, UPS, Toulouse, France; 2: Fédération de Recherche (FR3450), Agrobiosciences, Interactions et Biodiversité (AIB), CNRS, Toulouse, France; Institut de Pharmacologie et de Biologie Structurale (IPBS), Université de Toulouse, CNRS, UPS, Toulouse, France.

1:15pm - 1:30pm

Fusapyrone Biosynthesis in *Fusarium mangiferae* depends on the Histone Methyltransferase FmKmt1 involved in H3K9me3

Anna Katharina Atanasoff-Kardjalieff¹, Friederike Lünne², Svetlana Kalinina², Joseph Strauss¹, Hans-Ulrich Humpf², Lena Studt¹

1: University of Natural Resources and Life Sciences, Vienna, Austria; 2: Westfälische Wilhelms-Universität, Münster, Germany

1:30pm - 1:45pm

Heterologous Expression of Gene Clusters from Toxigenic Fungi

Mikkel Rank Nielsen

Aalborg University, Denmark

1:45pm - 2:00pm

Self-protection Mechanisms of the Fumonisin producer *Fusarium verticillioides*

Slavica Janevska^{1,2}, Vito Valiante²

1: Molecular Plant Pathology, University of Amsterdam, Netherlands; 2: Biobricks of Microbial Natural Product Syntheses, Leibniz-HKI, Jena, Germany

2:00pm - 2:15pm

***Stachybotrys chartarum* as a Source of Novel Biologically Active Secondary Metabolites and Products for the Semi-synthetic Approach**

Katharina Steinert, Nina Berg, Hans-Ulrich Humpf, Svetlana A. Kalinina

Westfälische Wilhelms-Universität Münster, Münster

2:45pm

Fungal control: Strategies to control fungal growth and mycotoxin production

Chair: **Lena Studt**, University of Natural Resources and Life Sciences, Vienna

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Chair: **Slavica Janevska**, University of Amsterdam

4:00pm

2:45pm - 3:00pm

The Inhibitory Effects of Natural Plant Extracts on Fungal Growth and Mycotoxins Production in Stored Agro-products

Fuguo Xing¹, Xu Li¹, Bowen Tai¹, Huijuan Hua¹, Ping Wang¹, Limin Wang¹, Yang Liu²

1: Institute of Food Science and Technology, Chinese Academy of Agricultural Sciences (CAAS), China, People's Republic of; 2: School of Food Science and Engineering, Foshan University, Foshan, China

3:00pm - 3:15pm

Effect of *Mimosa tenuiflora* Aqueous Extract on Aflatoxin B₁ Production in *Aspergillus flavus*: Role of Condensed Tannins

Christopher Hernandez^{1,2}, Laura Cadenillas^{1,2}, Anwar Elmaghubi¹, Isaura Caceres¹, Vanessa Durrieu², Céline Mathieu^{2,3}, Jean-Denis Bailly¹

1: Toxalim (Research Center in Food Toxicology), Université de Toulouse, INRAE, ENVT, El-Purpan, Toulouse 31300, France; 2: Laboratoire de Chimie Agro-industrielle (LCA), Université de Toulouse, INRA, INPT, Toulouse, France, 4 allée Emile Monso, 31030, Toulouse, France; 3: Centre d'Application et de Traitement des Agro-Ressources (CATAR), INPT, Toulouse, 4 allée Emile Monso, 31030, Toulouse, France

3:15pm - 3:30pm

Antifungal Activity of Fermented and Unfermented Rooibos and Honeybush Extracts against *Fusarium* Species

Beauty Omoruyi, Mariska Lilly, Wentzel Gelderblom

Cape Peninsula University of Technology, South Africa

3:30pm - 3:45pm

Agricultural Mulching and Fungicides – Impacts on Fungal Biomass and Mycotoxin Occurrence

Maximilian Meyer¹, Dörte Diehl¹, Gabriele Ellen Schaumann¹, Katherine Munoz²

1: iES Landau, Institute for Environmental Sciences Landau, Group of Environmental and Soil Chemistry, University Koblenz-Landau, Landau, Germany; 2: iES Landau, Institute for Environmental Sciences Landau, Group of Organic and Ecological Chemistry, University Koblenz-Landau, Landau, Germany

3:45pm - 4:00pm

Monitoring of the Competitiveness of an Aflatoxigenic and a Non-aflatoxigenic *A. flavus* Strain on Maize by Droplet Digital PCR

Alexandra Schamann, Markus Schmidt-Heydt, Rolf Geisen

Max Rubner Institut, Germany

4:00pm

Closing Remarks and Outlook to the 43rd Mycotoxin Workshop 2022

Chair: **Manfred Gareis**, Society for Mycotoxin Research

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Chair: **Hans-Ulrich Humpf**, WWU Münster

4:15pm