



## PROGRAMME

### PRE-CONFERENCE on ANIMAL HEALTH

*Mycotoxins – ongoing issues of animal health and productivity*

**30 November 2021**

Animal Health, the second in the series of virtual pre-conferences, takes place on a highly interactive platform. Topics to be covered range from biomarker monitoring to adverse health effects on a variety of species and mitigation of mycotoxin contamination.

## PROGRAMME

All times are in Central European Time (CET)

- 12:00 **The World Mycotoxin Forum® Connects**  
General conference chairs: Prof. Rudolf Krska, Department IFA-Tulln, BOKU Vienna, Austria and Prof. Chris Elliott, Institute for Global Food Security, Queen's University of Belfast, Northern Ireland
- 12:15 *Mycotoxins – ongoing issues of animal health and productivity*  
Pre-conference chair: Prof. Isabelle Oswald, Toxalim Research Centre in Food Toxicology, France
- 12:25 *Advantages and limitations of biomarker monitoring in pigs in the assessment of animal exposure to mycotoxins*  
Dr Piotr Jedziniak, Department of Pharmacology and Toxicology, National Veterinary Research Institute, Poland
- 12:50 *Mycotoxins in feed: impact on animal health and animal source foods in developing countries*  
Dr Johanna F. Lindahl, International Livestock Research Institute, Kenya and Swedish University of Agricultural Sciences, Sweden
- 13:15 *The effects of mycotoxins on dairy cattle*  
Dr Antonio Gallo, Department of Animal Science, Food and Nutrition, Università Cattolica del Sacro Cuore, Italy
- 13:40 *Toxic effect of aflatoxins in dogs fed contaminated dry feed*  
Prof. Arturo Gerardo Valdivia-Flores, Centro de Ciencias Agropecuarias, Universidad Autonoma de Aguascalientes, Mexico
- 14:05 *Deleterious effects of mycotoxins on the intestine of farm animals*  
Dr Philippe Pinton, Toxalim Research Centre in Food Toxicology, INRAE, France

14:30 **EXHIBITION:** Visit the booths and live chat with our sponsors.  
**PIAZZA CONNECTS:** Meet & Greet the chairs, the speakers and the WMF community.

- 15:00 Company pitches
- **R-Biopharm:** *Managing mycotoxins for petfood*  
Ronald Niemeijer, M.Sc.
  - **Biomin:** *Cutting-edge science, absolute protection*  
Verena Starkl, M.Sc.
  - **Adisseo:** *Mycotoxin management is not a betting game – Adisseo helps you identify the risks and adopt the best strategy*  
Dr Olga Averkieva
  - **Trouw Nutrition:** *Trouw Nutrition – innovations driven by customers*  
Pedro Caramona
  - **Alltech:** *The evolution of mycotoxin management strategies, and beyond*  
Dr Alexandros Yiannikouris
  - **Phileo by Lesaffre:** *Yeasts fractions to mitigate mycotoxins in animal feed: new insights*  
Dr Virginie Marquis
- 15:30 *Ergotism in livestock – an insight on potential mechanisms*  
Dr Ahmad Al-Dissi, Department of Veterinary Pathology, University of Saskatchewan, Canada
- 15:55 *Zearalenone and pigs: to reprotoxicity and beyond*  
Dr Laura Soler-Vasco, Toxalim Research Centre in Food Toxicology, INRAE, France

- 16:20 *Mycotoxins in poultry – recent update on gut health and immunity*  
Dr Swamy Haladi, Trouw Nutrition, India
- 16:45 *Effects of mycotoxins on fish – what do we know so far?*  
Dr Constanze Pietsch, Aquaculture Group, Bern University of Applied Sciences, Switzerland
- 17:10 *Promising detoxification of Fusarium mycotoxins in maize silage: biological transformation of deoxynivalenol and zearalenone*  
Dr Yan Zhu, Guelph Research & Development Centre, Agriculture and Agri-Food Canada, Canada

17:35 **EXHIBITION:** Visit the booths and live chat with our sponsors.  
**PIAZZA CONNECTS:** Meet & Greet the chairs, the speakers and the WMF community.

- 17:50 Young scientist pitches  
Chair: Prof. Chiara Dall'Asta, Department of Food and Drug, University of Parma, Italy
- *Emerging Fusarium mycotoxins disrupt homeostasis of bovine mammary cells by altering cell permeability and innate immune function*  
Ran Xu, Department of Animal Biosciences, University of Guelph, Canada
  - *Novel mycotoxin binder from agricultural waste to enhance safety of agricultural products*  
Wipada Siri-anusornsak, Department of Food Science and Technology, Kasetsart University, Thailand
  - *Mycotoxins in aquaculture: occurrence in feed ingredients and feed – effects on fish productivity and health*  
Vivi Koletsis, Aquaculture and Fisheries Group, Wageningen University & Research, the Netherlands
- 18:15 Presentation of the Pitch Award by Prof. Chiara Dall'Asta
- 18:20 Closing remarks and outlook for:
- Virtual pre-conference on Analysis (1 February 2022)  
Prof. Rudolf Krska and Prof. Chris Elliott
  - WMFmeetsITALY, 16-18 May 2022, Parma, Italy  
Dr Michele Suman and Prof. Chiara Dall'Asta
- 18:45 End of pre-conference

## ABOUT THE SPEAKERS

### **Piotr Jedziniak**

Dr Jedziniak is head of the Department of Pharmacology and Toxicology, National Veterinary Research Institute, Poland.

### **Johanna Lindahl**

Dr Lindahl is a veterinary epidemiologist working on a joint appointment between ILRI and Swedish University of Agricultural Sciences. Her research is focused on zoonotic diseases in developing countries, mainly in Africa and Asia as well as on food safety, coordinating projects on aflatoxins.

### **Antonio Gallo**

Dr Gallo is associate professor at the Università Cattolica del Sacro Cuore, Italy. His main research topics regard animal nutrition science, feed evaluation, feed safety, and modelling digestive and metabolic processes in the gastro-intestinal tract of animals.

### **Arturo Gerardo Valdivia-Flores**

Prof. Valdivia-Flores is a researcher at the Centro de Ciencias Agropecuarias, Universidad Autonoma de Aguascalientes, Mexico. His research field includes animal health, animal production, and mycotoxins.

### **Philippe Pinton**

At the Toxalim Research Centre in Toxicology, France, Dr Pinton contributes to the development of several methodologies used, including experimental approaches on animal models and cell culture of intestinal explants. He also leads a research project on the effects of deoxynivalenol and chemical derivatives on the intestinal tissue.

### **Ahmad Al-Dissi**

Dr Al-Dissi's research focuses on studying the effects of toxins on animal and human health. He is currently investigating the effects of ergot alkaloids on the vasculature and the mechanisms of these effects. His research team utilises an arterial tissue bath system to study these effects in sheep after *in vivo* exposure.

### **Laura Soler-Vasco**

Dr Soler-Vasco studies the toxic effects of (emerging) mycotoxins using a translational approach, from the molecular level to the whole animal, using the pig as the favourite research model. She is interested in combining traditional reductionist toxicology and molecular biology techniques with holistic approaches based in -omics.

### **Swamy Haladi**

Dr Haladi is the global programme manager for mycotoxin risk management with Trouw Nutrition. Dr Haladi has obtained extensive knowledge of animal nutrition (monogastric and ruminant animals).

### **Constanze Pietsch**

Dr Pietsch is researcher the Bern University of Applied Sciences, Switzerland. Her focus areas are fish nutrition, well-being and stress, immunology, toxicology, and effects of mycotoxins.

### **Yan Zhu**

Dr Zhu's current research at the Guelph Research and Development Centre, one of Agriculture and Agri-Food Canada's network of 20 research and development centres, is in the field of mycotoxin detoxification and inactivation of foodborne pathogens.

### **Ran Xu**

Ran Xu is a PhD candidate in Animal Nutrition and Toxicology in the Department of Animal Biosciences at University of Guelph, Canada. Her PhD research project is focused on the *in vitro* assessment on individual and combined toxicity of mycotoxins and their remediation with adsorbents.

### **Wipada Siri-anusornsak**

Wipada Siri-anusornsak obtained a Master of Science in biotechnology at Chulalongkorn University, Thailand. Currently, she is a PhD candidate in food science at Kasetsart University, Thailand

### **Vivi Koletsi**

Vivi Koletsi is a PhD candidate at Aquaculture and Fisheries Group, Wageningen University & Research, the Netherlands. Her project deals with the impact of mycotoxins in aquatic farmed fish species.