

WORKSHOP PROGRAMME



Updated 22/10/2014

MONDAY 10 NOVEMBER 2014

12:30 – 13:30 **WORKSHOP 1**

Innovative rapid detection methods as part of a HACCP system for managing mycotoxins

Sponsored and presented by R-Biopharm

Mycotoxin contamination of food and feed products imposes a risk to human and animal health and has serious economic impact. Since mycotoxins are natural occurring toxins, exposure cannot be 100% controlled. To meet international regulations and guidelines products are tested for the amount of mycotoxins. Yet, instead of testing large numbers of end products a more pro-active approach would have many benefits. To assure safe food and feed various quality assurance tools can be applied, such as GAP and GMP.

During the production process of food and feed critical steps can be identified where it is possible to minimise the risk of unacceptable mycotoxin concentrations in the end product. For this HACCP-based approach for mycotoxin management, a measurement tool to monitor mycotoxins at critical steps is needed. Rapid and on-site decision making with quantitative lateral flow tests can be an excellent tool for that. In this workshop, R-Biopharm will present the latest developments in this field.

12:30 – 13:30 **WORKSHOP 2**

Mycotoxins risk management in animal nutrition

Sponsored and presented by Olmix

Mycotoxins involve many disorders on animals, mainly immune depression and digestive and reproduction troubles. These effects occur with high contamination but also under chronic exposure to low levels of several mycotoxins. Detection of mycotoxin-related troubles is not easy. Mycotoxins are invisible and odourless. Moreover, mycotoxicosis symptoms can be associated to an infectious pathogen instead of the presence of mycotoxins in the feed. As a consequence, mycotoxins require specific attention. Mycotoxins risk management tools may be used to address this issue.

This workshop will be focused on different tools set up by Olmix to evaluate the risk of mycotoxins on a farm (Mycotoxin Risk Evaluator), better understand mycotoxin analysis (Mycotoxin Essentials) and optimise the solution to implement (MT.X+ Calculator).

TUESDAY 11 NOVEMBER 2014

12:30 – 13:30 **WORKSHOP 3**

Unravelling the mycotoxin challenge: a 360° perspective on science, sampling and innovative testing solutions

Sponsored by Romer Labs

In this workshop, Romer Labs provides a complete picture on state-of-the-art analysis of food and feed for mycotoxins throughout various stages of production.

At several stations, participants can gather insights and practical examples regarding correct and regulatory compliant sampling, efficient and fast sample preparation, rapid test methodologies for quick and reliable result generation not only applicable in laboratories but particularly in the field, reference testing methods for accurate low-level quantification of contaminants and analytical services provided by its ISO 17025-certified laboratories.

The latest R&D findings with special focus on water-based extraction for LFDs, implementation of the new SIDASpin method for multimycotoxin testing with LC-MS/MS, and complex matrix purification by MycoSpin™ 400 multitoxin column in combination with ¹³C-internal standards will be presented. Moreover, the workshop will be an opportunity to discover masked mycotoxins and other 'hot topics' in the field of mycotoxins.

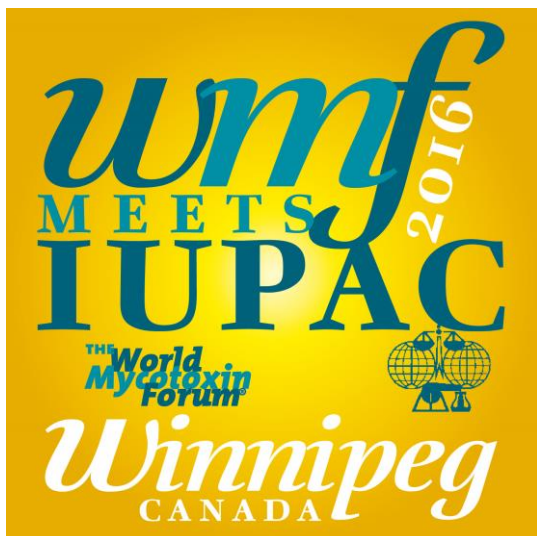
12:30 – 13:30 **WORKSHOP 4**

Challenges to further increase effectiveness and throughput of food safety control: integration of pesticide residues and natural toxins analysis into a single run

Sponsored by Thermo Scientific, Germany

Presenter: Prof. Jana Hajšlová, Department of Food Chemistry and Analysis, Institute of Chemical Technology, Czech Republic

The occurrence of pesticide residues, mycotoxins and other emerging chemical substances in foods has become a major concern both from public as well as regulatory agencies around the world. Effective monitoring of the large groups of possible contaminants and residues is therefore required. Although in most existing studies multi-analyte methods were employed, typically only one group of the above hazardous compounds was targeted. In the presented study, we merged target analysis of 323 pesticide residues, 56 mycotoxins and 11 pyrrolizidine alkaloids into a single method. For sample preparation, QuEChERS-like extraction method was used. The extracts were then examined by ultra-high performance liquid chromatography coupled with tandem high resolution mass spectrometric detection (UHPLC-HRAM-MS/MS) employing quadrupole-Orbitrap hybrid mass spectrometer Q Exactive™. Advanced data dependent MS/MS algorithm was used to trigger automatically MS/MS acquisition based on the fullscan MS survey scans. This allowed simultaneous screening, quantitation and confirmation of all analytes within a single analytical run.



The World Mycotoxin Forum® and the IUPAC International Symposium on Mycotoxins and Phycotoxins proudly announce that their next joint conference will take place in Winnipeg, Canada, on 6-9 June 2016.

This unique combined event – **WMFmeetsIUPAC2016** – will build on the success of the previous conference that was held in Rotterdam, the Netherlands in 2012.

For all information, please contact the Secretariat of **WMFmeetsIUPAC** by email:

WMF@bastiaanse-communication.com