

FINAL PROGRAM

4th International Symposium

Mycotoxins: Challenges and Perspectives

Tuesday May 24th 2011, Ghent, Belgium

INTRODUCTION

Mycotoxins -toxic fungal secondary metabolites- play a significant role in food and feed safety. Indeed, mycotoxins have shown to be the number one threat regarding chronic toxicity. Economic losses are due to effects on livestock productivity and direct losses in crop yield and stored agricultural products. Legislative limits for a range of mycotoxins continue to develop worldwide resulting in an increased number of official controls deriving from national food safety plans and for food trade purposes.

The challenges in mycotoxin research are enormous due to the frequency, the complexity and variability in occurrence. Several aspects make the control of mycotoxins difficult, e.g.:

- Different fungal species produce mycotoxins;
- Most of the mycotoxin producing fungi are able to produce more than one mycotoxin;
- Mycotoxin levels are influenced by environmental conditions during growth and storage;
- The presence of masked mycotoxins;
- Interaction of various mycotoxins and environmental factors.

New developments in mycotoxin analysis focus on faster, environmentally friendly, cost-effective and fit-for-purpose methods in food, feed, biological tissue and body fluids. A trend towards multi-mycotoxin analysis has been noticed.

Mycotoxigenic fungi, mycotoxins and food safety will continue to be a critical interest to researchers for years to come. Innovations take place at a rapid pace. The investigational area is broad (phytopathology, analytical methods, risk management, animal health, ...) but necessary to ensure a safe food and feed supply.

The symposium will bring knowledge of several disciplines together to find solutions for the problems connected with mycotoxins contamination. The complex character of mycotoxin related problems make a multidisciplinary approach necessary.



REGISTRATION

Please register at www.mytox.be

Regular fee: € 175 (before March 15th: € 150)

Fee for PhD students: € 70 (before March 15th: € 60)

After the online registration, an invoice/confirmation will be sent within 2 weeks. Registration fee includes abstract book, conference bag, coffee and lunch

Erkenningsnummer Hogeschool Gent:

KMO-Portefeuille: DV.O101616

VENUE

University College Ghent - campus Bijloke

Room 'Zwarte zaal', Jozef Kluyskensstraat 2,

9000 Ghent



by plane:

From Brussels Airport, Ghent can easily be reached by train "Gent Sint-Pieters" directly from the airport.

Trains run very frequently with an interval of about 20 minutes and travel time to "Gent Sint-Pieters" railway station is 50 to 85 minutes.

by train/tram:

From railway station "Gent Sint-Pieters", the venue can easily be reached with tram line 21, 22 or 40 to "Bijlokehof".

FINAL PROGRAM

- 8.30** Registration
- 9.00** Poster session and technical exhibition
- 9.30** Opening **Prof. Dr. S. De Saeger**, Ghent University, Ghent, Belgium
- 9.40** Invited speaker: **Dr. Yun Yun Gong**, Leeds University, Leeds, United Kingdom
Mycotoxin exposure biomarker overview: development, validation and application.
- 10.10** Invited speaker: **Dr. Mari Eskola**, EFSA, Parma, Italy
EFSA CONTAM Panel: how it carries out risk assessments on contaminants.
- 10.40** **Dr. Annie Leszkowicz**, ENSA, University of Toulouse, Toulouse, France
Evaluation of the daily intake of carcinogenic mycotoxins-molecular evidence of synergistic effects.
- 10.55** Coffee, poster session and technical exhibition
- 11.30** Invited speaker: **Dr. Isabelle Oswald**, INRA, Toulouse, France
The intestine as target for mycotoxins.
- 12.00** **Ann Osselaere**, Ghent University, Merelbeke, Belgium
Efficacy testing of mycotoxin-detoxifying agents in broilers following EFSA guidelines.
- 12.15** **Maria Weidner**, Westfälische Wilhelms-Universität Münster, Münster, Germany
Metabolism of T-2 toxin in human cells.
- 12.30** Lunch, poster session and technical exhibition
- 13.45** Technology seminar **Waters: Dr. Sandra Rontree**
Fast analysis of multi-mycotoxin compounds using UPLC[®]/MS/MS -
Illustrating benefits other than increased sensitivity using Xevo[™] TQ-S
- 14.30** Invited speaker: **Dr. Ibtisam Tothill**, Cranfield University, Cranfield, United Kingdom
Developments of biosensors and their applications for mycotoxins detection.
- 15.00** Invited speaker: **Dr. José Diana Di Mavungu**, Ghent University, Ghent, Belgium
Ergot alkaloids: occurrence and analytical strategies.
- 15.30** **Dr. Joël De Coninck**, Université de Mons Hainaut, Mons, Belgium
Spectroscopic biosensors for mycotoxins in complex media.
- 15.45** **Elsa Rouah-Martin**, University of Antwerp, Antwerp, Belgium
Recognition of ergot alkaloids by single-stranded nucleic acid ligands.
- 16.00** Coffee, poster session and technical exhibition
- 16.30** Invited speaker: **Dr. Marc Lemmens**, BOKU, Vienna, Austria
Fusarium head blight in wheat: breeding for resistance and the consequences
for the (masked) mycotoxin content in the grain
- 17.00** **Ellen Ydens**, University College Ghent, Ghent, Belgium
The *Fusarium poae* population on wheat in Belgium from 2002-2010:
interseason variations, chemotypes and resistance to stress factors.
- 17.15** End of the symposium

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