

FINAL PROGRAM 1ST MYCOKEY CONFERENCE 11-14/9/2017

PROGRAM MONDAY 11/9/2017

16.00 - 18.00	Registration
18.00 - 20.00	Get-together evening (beer tasting @ Aula of Ghent University - Volderstraat 9, Ghent)

PROGRAM TUESDAY 12/9/2017

8.00 - 9.00	Registration	
	PLENARY SESSION: Global Impact of Mycotoxins Chairs: S. De Saeger & A. Logrieco	
9.00 - 9.20	Welcome & Introduction to the MycoKey project S. De Saeger (symposium chair, Ghent University, Belgium) and A. Logrieco (coordinator MycoKey, ISPA-CNR, Italy)	
9.20 - 9.40	Mycokey - a new start of EU-China cooperation on mycotoxin management J. Feng (IPP-CAAS, Beijing, China)	
9.40 - 10.00	An integrated toolbox for mycotoxins management for safer food and feed: the Mytoolbox approach R. Krska (coordinator Mytoolbox, IFA Tulln BOKU, Austria)	
10.00 - 10.45	Coffee break - poster presentation - sponsor exhibition	
10.45 - 11.15	KEYNOTE: Climate change, fungal pathogens, and global food security D. Bebbler (University of Exeter, UK)	
11.15 - 11.45	KEYNOTE: Climate change and globalisation: a challenge for EU policy on mycotoxins in feed and food F. Verstraete (EU DG SANCO, Belgium)	
11.45 - 12.15	Technical session 1: R-Biopharm	
12.15 - 14.00	Lunch break - poster presentation - sponsor exhibition	
	Session 1: Biodiversity & Toxigenic Fungi Monitoring Chairs: A. Moretti & J. Cary	Session 2: Mycotoxin Analytical Challenges Chairs: Y-C Liao & G. De Meleleer
14.00 - 14.20	INVITED: Distribution of mycotoxin biosynthetic genes in 200 <i>Fusarium</i> genomes R. Proctor (USDA-ARS, Peoria)	INVITED: Recent developments in rapid multi- mycotoxin detection P. Li (OCRI-CAAS, Wuhan, China)
14.20 - 14.40	Insight into genome variability in the <i>Fusarium incarnatum-equiseti</i> complex through comparative analysis of secondary metabolic biosynthetic gene clusters A. Villani (CNR, Italy)	Novel immunoassay format for rapid screening of mycotoxins – HT-2 toxin detection as an example T. Nevanen (VTT, Finland)
14.40 - 15.00	The life cycle of <i>Fusarium</i> in different crop rotation systems in China H. Zhang (IPP-CAAS, Beijing, China)	Real-time electrochemical profiling assay method for detection of aflatoxin B1 in dried figs H. Ozer (Tubitak, Turkey)
15.00 - 15.45	Coffee break - poster presentation - sponsor exhibition	
15.45 - 16.05	Genome-wide association of <i>Fusarium</i> head blight resistance to mycotoxin accumulation and to spread in wheat X. Zhang (IFC-JAAS, China)	Biotechnological synthesis of deoxynivalenol-3-glucoside and its fully labeled ¹³ C analogue with heterologously expressed enzymes and their analytical application in a stable isotope dilution assay L. Kuster (Romer Labs, Austria)
16.05 - 16.25	Contribution of mitochondria and peroxisomes on the mycotoxin biosynthesis and fungal virulence via distinct regulatory pathways in <i>Fusarium graminearum</i> Y. Chen (Zhejiang University, China)	LC-MS based multi-mycotoxin methods – are they applicable to complex feed matrices? M. Sulyok (IFA-BOKU, Austria)
16.25 - 16.45	Specialized metabolite clusters in <i>Fusarium</i> C. Waalwijk (Wageningen Plant Research, The Netherlands)	Liquid chromatography – high resolution mass spectrometry screening of <i>Fusarium</i> toxins in wheat: evaluation of analytical performances through in-house validation and small-scale collaborative study B. Clasca (ISPA-CNR, Italy)
16.45 - 17.05	Diving into Guinean Gulf <i>Aspergillus section flavi</i> diversity/description of a new aflatoxin producing species A. Carvajal-Campos (University of Toulouse, France)	Secondary metabolite profiling of food-borne <i>Alternaria</i> A. Patriarca (University of Buenos Aires, Argentina)
17.05 - 17.25	Investigating the <i>Alternaria</i> disease progression, species composition and genetic diversity on potato in Belgium M. Vandecasteele (Ghent University, Belgium)	Ochratoxin A in rye – a challenge for industry and analytics M. Reichel (Eurofins, Germany)
17.25 - 17.40	Photoshoot Conference Picture	
17.40 - 18.30	Wine and cheese (offered by Romerlabs / Biomin)	
18.30 - 20.00	Meeting for the Executive Committee only (hall + dinner) - Free evening for other participants	

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PROGRAM WEDNESDAY 13/9/2017			
8.00 - 9.00	Registration – coffee		
	Session 3: Prevention <small>Chairs: S. Vogelgsang & H. Zhang</small>	Session 4: Animal Health & Toxicology <small>Chairs: S. Okoth & G. Avantaggiato</small>	Session 5: Mycotoxin Biosynthesis <small>Chairs: R. Procter & K. Audenaert</small>
9.00 - 9.20	EU wheat farmers' intentions to improve their mycotoxin management E. Janssen (Wageningen University, The Netherlands)	Validated LC-MS/MS multi-methods to detect 25 mycotoxins and <i>in vivo</i> phase I metabolites in biological fluids of pigs and broiler chickens and application to screening studies for mycotoxin exposure M. Lauwers (Ghent University, Belgium ; Innovad, Belgium)	Biosynthesis of the hydroxamic acid aspergillilic acid in toxigenic fungus <i>Aspergillus flavus</i> M. Lebar (ARS-USDA, USA)
9.20 - 9.40	Formulation and delivery of the biological control agents <i>Clonostachys rosea</i> and <i>Trichoderma Harzianum</i> to reduce mycotoxins in wheat A. Gimeno (Agroscope, Switzerland)	<i>In vivo</i> contribution of α -zearalenol, β -zearalenol, zearalenone-14-glucoside and zearalenone-14-sulphate to zearalenone exposure in pigs: oral bioavailability, hydrolysis and toxicokinetics A. Catteuw (Ghent University, Belgium)	The understanding of OTA-biosynthesis: new insight from <i>Aspergillus carbonarius</i> A. Gallo (ISPA-CNR, Italy)
9.40 - 10.00	Inhibition of DON production by <i>Fusarium graminearum</i> via exposure to <i>Trichoderma harzianum</i> A. Wu (CAS, China)	Effects of fumonisins and deoxynivalenol on turkeys and the efficacy of a mycotoxin-deactivating enzyme and bacterial strain to counteract S. Schaumberger (BIOMIN, Austria)	The velvet complex in blue mold fungus <i>Penicillium expansum</i> : impact of VEA on development, aggressiveness and secondary metabolism C. El Hajj Assaf (University of Toulouse, France)
10.00 - 10.20	First year experience with large-scale application of an <i>Aspergillus flavus</i> biocontrol agent for aflatoxin prevention in Italian maize P. Battiliani (Universita Cattolica del Sacro Cuore, Italy)	Effect of feed-borne <i>Fusarium</i> mycotoxins on the gut microbiome composition in broiler chickens and in pigs G. Antonissen (Ghent University, Belgium)	Kinetics of TRI gene expression and T-2 and HT-2 production by <i>Fusarium langsethiae</i> C. Verheecke-Vaessen (Cranfield University, UK)
10.20 - 11.00	Coffee break - poster presentation - sponsor exhibition		
	Session 3: Prevention <small>Chairs: S. Vogelgsang & H. Zhang</small>	Session 6: Human Health & Toxicology <small>Chairs: R. Krska & M. De Boevre</small>	Session 7: Food & Feed Processing <small>Chairs: A. Laitila & G. Antonissen</small>
11.00 - 11.20	Biologically based methods for the reduction of fumonisin mycotoxins in maize JF. Alberts (Cape Peninsula University of Technology, South Africa)	Study of the correlation between aflatoxins B1 (AFB1) levels and mutation in the p53-gene in Pakistani patients suffering from liver diseases including hepatocellular carcinoma M. Kashif Saleemi (University of Agriculture, Pakistan)	Effect of groundnut drying methods on drying rate and aflatoxin contamination M. Chimbaza (Luanar, Malawi)
11.20 - 11.40	Efficacy of a fungal and bacterial antagonist for controlling growth, FUM1 gene expression and fumonisin B1 by <i>Fusarium verticillioides</i> on maize cobs of different ripening stages N. Magan (Cranfield University, UK)	Multi-mycotoxin analysis in blood & urine of five European populations: characterizing internal dietary mycotoxin exposure in the EFCOVAL Cohort K. De Ruyck (Ghent University, Belgium)	<i>Fusarium</i> (modified) mycotoxins in Nigerian sorghum-based beer: natural occurrence and influence of traditional processing methods C. Chilaka (Ghent University, Belgium ; MOUAU University, Nigeria)
11.40 - 12.00	Antifungal activity of the allyl isothiocyanate against <i>Aspergillus flavus</i> and <i>Penicillium nordicum</i> in corn, wheat and barley G. Meca (University of Valencia, Spain)	Research on the glucuronidation and renal excretion of deoxynivalenol in humans A. Vidal (Ghent University, Belgium)	Synergic potential of pre-milling and milling strategies to minimize mycotoxins and increase fiber content of wheat-based products M. Suman (Barilla, Italy)
12.00 - 12.20	Effectiveness of agrochemicals in reducing <i>Fusarium verticillioides</i> (<i>sacc.</i>) <i>nirenberg</i> infection and contamination of fumonisins in maize of low land agro-ecosystems in Tanzania R. Madege (Sokoine University of Agriculture, Tanzania)	Post-harvest interventions decrease infants' dietary exposure to aflatoxins and fumonisins in Tanzania: a cluster-randomized controlled trial A. Kamala (Ghent University ; Directorate of Food Safety, Tanzania)	Occurrence of potentially toxigenic heat resistant moulds in pasteurized high acid fruit products J. Santos (Ghent University, Belgium ; University of Campinas, Brazil)
12.20 - 13.45	Lunch break - poster presentation - sponsor exhibition		

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	Session 3: Prevention <small>Chairs: G. Haesaert & A. Wu</small>	Session 8: Remediation & Intervention <small>Chairs: S. Croubels & S. Chulze</small>	Session 9: Modelling & ICT Solutions <small>Chairs: P. Battilani & T. van der Lee</small>
13.45 - 14.05	<i>Bacillus subtilis</i> as a biocontrol organism towards <i>Penicillium roqueforti</i> s.l. in silage: <i>in vitro</i> and <i>in vivo</i> evaluation E. Wambacq (Ghent University, Belgium)	Mycotoxin bioremediation via laccase mediator systems M. Loi (ISPA-CNR, Italy)	Trend analysis and modeling for risk based monitoring of mycotoxins in feed ingredients HJ van der Fels-Klerx (RIKILT, The Netherlands)
14.05 - 14.25	Succinate dehydrogenase inhibitor fungicides effectiveness against <i>Aspergillus flavus</i> and <i>Fusarium</i> species A. Moretti (ISPA-CNR, Italy)	Application of mycotoxin-detoxifying enzymes in the bioethanol process D. Kotz (BIOMIN, Austria)	Three modelling approaches to predict deoxynivalenol contamination levels in winter wheat in the Netherlands C. Liu (RIKILT, The Netherlands)
14.25 - 14.45	Control of pre-harvest aflatoxin contamination in corn using RNA interference-mediated approaches J. Cary (USDA-ARS, USA)	Microbial detoxification of DON, assessed via a Lemnar Minor L. bioassay through biotransformation to 3-epi-DON and 3-epi-DOM I. Vanhoutte (Ghent University, Belgium)	Associations between <i>Fusarium</i> mycotoxin accumulation in oats and weather conditions A-G Roer Hjelkrem (NIBIO, Norway)
14.45 - 15.05	Cropping systems to decrease the risk of mycotoxins in wheat D. Drakopoulos (Agroscope, Switzerland)	Mechanistic insight into the biosynthesis and detoxification of fumonisins M. Sumarah (Agriculture and Agrifood, Canada)	DON-maize: a prototype mechanistic model to predict deoxynivalenol and zearalenone contamination in maize M. Leggieri (Universita Cattolica del Sacro Cuore, Italy)
15.05 - 15.25	Agronomic practices and mycotoxin contamination in maize: a case study of subsistence farming households in Manicaland and Mashonaland West provinces of Zimbabwe M. Ndemera (Ghent University; University of Zimbabwe, Zimbabwe)	Toxigenic mould respiration in stored cereals: the use of CO ₂ production interacting environmental conditions on dry matter loss and mycotoxin contamination as tools for post-harvest decision support systems E. Garcia-Cela (Cranfield University, UK)	Improved modelling of <i>Fusarium</i> to aid mycotoxin prediction in UK wheat S. Edwards (Harper Adams University, UK)
15.25 - 15.45	Assessment and mitigation of aflatoxin contamination in animal feeds in Rwanda K. Nishimwe (Iowa State University, USA)	Mycotoxin contamination in maize silages in relation to agronomic practices in Flemish maize parcels J. Vandicke (Ghent University, Belgium)	High-throughput ecophysiology and modelling approaches for <i>Aspergillus flavus</i> using turbidimetric readings A. Medina (Cranfield University, UK)
15.45 - 16.15	Coffee break - poster presentation - sponsor exhibition		
	PLENARY SESSION <small>Chairs: S. De Saeger & A. Logrieco</small>		
16.15 - 16.45	Spotlight MycoKey Presentation 'The MycoKey app' <small>T. van der Lee (Wageningen Plant Research, The Netherlands)</small>		
16.45 - 17.05	Technical session 2: Nutriad & Romerlabs / Biomin		
17.05 - 18.05	ISM General Assembly		
19.00 - 24.00	Congress dinner (Handelsbeurs, Kouter 29, Ghent)		

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PROGRAM THURSDAY 14/9/2017	
8.00 - 9.00	Session 10: Developing countries Chairs: P. Njobeh & F. Stepman
9.00 - 9.30	KEYNOTE: The socio-economic impact of mycotoxin contamination in Africa P. Njobeh (University of Johannesburg, South-Africa)
9.30 - 9.50	Multi-mycotoxin contamination in fermented locust beans (<i>Parkia Biglobosa</i>) and the perception of mycotoxin contamination in Nigerian and South African markets I. Adekoya (University of Johannesburg, South-Africa)
9.50 - 10.10	Risk assessment of mycotoxins associated with consumption of stored maize grains by infants and children in Nigeria A. Olusegun (DBS, Nigeria)
10.10 - 10.30	Awareness and perception about the occurrence, causes and consequences of aflatoxin contamination in Burundi and Eastern Democratic Republic of Congo N. Wiredu (IITA, Mozambique)
10.30 - 10.50	Current trends in sample size in mycotoxin analysis in grains: are we measuring accurately? L. Matumba (Luanar, Malawi)
10.50 - 11.20	Coffee break - poster presentation - sponsor exhibition
	PLENARY SESSION Chairs: S. De Saeger & A. Logrieco
11.20 - 12.20	CLOSING SESSION: Going beyond contamination, regulation and mitigation F. Stepman (PAEPARD, Africa-Europe)
12.20 - 12.30	Closing remarks A. Logrieco (coordinator MycoKey, ISPA-CNR, Italy)
12.30 - 14.00	Lunch - to take away - (+ Editorial Board Meeting Toxins)