

FINAL PROGRAM 1<sup>ST</sup> 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 & Coffee	
	<b>PLENARY SESSION: Global Impact of Mycotoxins</b> Chairs: S. De Saeger & A. Logrieco	
9.00 - 9.20	<b>Welcome &amp; Introduction to the MycoKey project</b> S. De Saeger (symposium chair, Ghent University, Belgium) and A. Logrieco (coordinator MycoKey, ISPA-CNR, Italy)	
9.20 - 9.40	<b>Mycokey - a new start of EU-China cooperation on mycotoxin management</b> J. Feng (IPP-CAAS, Beijing, China)	
9.40 - 10.00	<b>An integrated toolbox for mycotoxins management for safer food and feed: the Mytoolbox approach</b> R. Krska (coordinator Mytoolbox, IFA Tulln BOKU, Austria)	
10.00 - 10.45	Coffee break - poster presentation - sponsor exhibition	
10.45 - 11.15	<b>KEYNOTE: Climate change, fungal pathogens, and global food security</b> D. Bebbler (University of Exeter, UK)	
11.15 - 11.45	<b>KEYNOTE: Climate change and globalisation: a challenge for EU policy on mycotoxins in feed and food</b> 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	
	<b>Session 1: Biodiversity &amp; Toxigenic Fungi Monitoring</b> Chairs: A. Moretti & J. Cary	<b>Session 2: Mycotoxin Analytical Challenges</b> Chairs: Y-C Liao & G. De Middelmeer
14.00 - 14.20	<b>INVITED: Distribution of mycotoxin biosynthetic genes in 200 <i>Fusarium</i> genomes</b> R. Proctor (USDA-ARS, Peoria)	<b>INVITED: Recent developments in rapid multi- mycotoxin detection</b> P. Li (OCRI-CAAS, Wuhan, China) represented by Qi Zhang
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 <sup>13</sup> 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 / Blomin)	
18.30 - 20.00	Meeting for the Executive Committee only (hall in NH Hotel + dinner in Ghent city) - Free evening for other participants	

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PROGRAM WEDNESDAY 13/9/2017			
8.00 - 9.00	Registration & Coffee		
	<b>Session 3: Prevention</b> <small>Chairs: S. Vogelgsang &amp; H. Zhang</small>	<b>Session 4: Animal Health &amp; Toxicology</b> <small>Chairs: S. Okoth &amp; G. Avantaggiato</small>	<b>Session 5: Mycotoxin Biosynthesis</b> <small>Chairs: R. Procter &amp; K. Audenaert</small>
9.00 - 9.20	EU wheat farmers' intentions to improve their mycotoxin management  <b>E. Janssen (Wageningen University, The Netherlands)</b>	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  <b>M. Lauwers (Ghent University, Belgium ; Innovad, Belgium)</b>	Biosynthesis of the hydroxamic acid aspergillic acid in toxigenic fungus <i>Aspergillus flavus</i>  <b>M. Lebar (ARS-USDA, USA)</b>
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  <b>A. Gimeno (Agroscope, Switzerland)</b>	<i>In vivo</i> contribution of $\alpha$ -zearalenol, $\beta$ -zearalenol, zearalenone-14-glucoside and zearalenone-14-sulphate to zearalenone exposure in pigs: oral bioavailability, hydrolysis and toxicokinetics  <b>A. Catteuw (Ghent University, Belgium)</b>	The understanding of OTA-biosynthesis: new insight from <i>Aspergillus carbonarius</i>  <b>A. Gallo (ISPA-CNR, Italy)</b>
9.40 - 10.00	Inhibition of DON production by <i>Fusarium graminearum</i> via exposure to <i>Trichoderma harzianum</i>  <b>A. Wu (CAS, China) represented by J. Tan</b>	Effects of fumonisins and deoxynivalenol on turkeys and the efficacy of a mycotoxin-deactivating enzyme and bacterial strain to counteract  <b>S. Schaumberger (BIOMIN, Austria)</b>	The velvet complex in blue mold fungus <i>Penicillium expansum</i> : impact of VEA on development, aggressiveness and secondary metabolism  <b>C. El Hajj Assaf (University of Toulouse, France)</b>
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  <b>P. Battiliani (Universita Cattolica del Sacro Cuore, Italy)</b>	Effect of feed-borne <i>Fusarium</i> mycotoxins on the gut microbiome composition in broiler chickens and in pigs  <b>G. Antonissen (Ghent University, Belgium)</b>	Kinetics of TRI gene expression and T-2 and HT-2 production by <i>Fusarium langsethiae</i>  <b>C. Verheecke-Vaessen (Cranfield University, UK)</b>
10.20 - 11.00	Coffee break - poster presentation - sponsor exhibition		
	<b>Session 3: Prevention</b> <small>Chairs: S. Vogelgsang &amp; H. Zhang</small>	<b>Session 6: Human Health &amp; Toxicology</b> <small>Chairs: R. Krska &amp; M. De Boevre</small>	<b>Session 7: Food &amp; Feed Processing</b> <small>Chairs: A. Laitila &amp; G. Antonissen</small>
11.00 - 11.20	Biologically based methods for the reduction of fumonisin mycotoxins in maize  <b>JF. Alberts (Cape Peninsula University of Technology, South Africa)</b>	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  <b>M. Kashif Saleemi (University of Agriculture, Pakistan)</b>	Effect of groundnut drying methods on drying rate and aflatoxin contamination  <b>M. Chimbaza (Luanar, Malawi)</b>
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  <b>N. Magan (Cranfield University, UK)</b>	Multi-mycotoxin analysis in blood & urine of five European populations: characterizing internal dietary mycotoxin exposure in the EFCOVAL Cohort  <b>K. De Ruyck (Ghent University, Belgium)</b>	<i>Fusarium</i> (modified) mycotoxins in Nigerian sorghum-based beer: natural occurrence and influence of traditional processing methods  <b>C. Chilaka (Ghent University, Belgium ; MOUAU University, Nigeria)</b>
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  <b>G. Meca (University of Valencia, Spain)</b>	Research on the glucuronidation and renal excretion of deoxynivalenol in humans  <b>A. Vidal (Ghent University, Belgium)</b>	Synergic potential of pre-milling and milling strategies to minimize mycotoxins and increase fiber content of wheat-based products  <b>M. Suman (Barilla, Italy)</b>
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  <b>R. Madege (Sokoine University of Agriculture, Tanzania)</b>	Post-harvest interventions decrease infants' dietary exposure to aflatoxins and fumonisins in Tanzania: a cluster-randomized controlled trial  <b>A. Kamala (Ghent University ; Directorate of Food Safety, Tanzania)</b>	Occurrence of potentially toxigenic heat resistant moulds in pasteurized high acid fruit products  <b>J. Santos (Ghent University, Belgium ; University of Campinas, Brazil)</b>
12.20 - 13.45	Lunch break - poster presentation - sponsor exhibition		

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

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PROGRAM THURSDAY 14/9/2017	
8.30 - 9.00	Registration & Coffee
	<b>Session 10: Developing countries</b> Chairs: P. Njobeh & F. Stepman
9.00 - 9.30	<b>KEYNOTE: The socio-economic impact of mycotoxin contamination in Africa</b> 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	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)
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
	<b>PLENARY SESSION</b> Chairs: S. De Saeger & A. Logrieco
11.20 - 12.20	<b>CLOSING SESSION: Going beyond contamination, regulation and mitigation</b> F. Stepman (PAEPARD, Africa-Europe)
12.20 - 12.30	<b>Closing remarks</b> A. Logrieco (coordinator MycoKey, ISPA-CNR, Italy)
12.30 - 14.00	Lunch - to take away