

PROGRAM of 2ND MYCOKEY CONFERENCE

PROGRAM SUNDAY 16/09/2018	
OPENING CEREMONY (Ballroom on the 3 rd Floor)	
8:30 – 8:40	Welcome and introductions of distinguished guests
8:40 - 9:20	Remarks from distinguished guests Chair: Dewen Qiu, Deputy Director of Institute of Plant Protection, CAAS, China <ul style="list-style-type: none"> • Dazhao Yu Past President of Hubei Academy of Agricultural Sciences; Member of Standing Committee of the CPPCC Hubei Provincial Committee, China • Wanquan Chen President of China Society of Plant Protection • Antonio Logrieco Coordinator of MycoKey; Director of Institute of Sciences of Food Production, CNR, Italy; Past President of International Society for Mycotoxicology • Xifeng Gong Director of Department International Cooperation of CAAS, China
9:20 – 9:30	Group Photo
PLENARY SESSION – KEYNOTE SPEECHES (Ballroom on the 3 rd Floor)	
9:30 – 10:00	Chair: Dazhao Yu Integrated solutions for mycotoxin management by MycoKey in China <ul style="list-style-type: none"> • Jie Feng (Institute of Plant Protection, CAAS, China; Coordinator of China National Key R&D program - MycoKey)
10:00 – 10:30	Advances on mycotoxin mitigation along food/feed chain based on MycoKey EU-China cooperation <ul style="list-style-type: none"> • Antonio Logrieco (Institute of Sciences of Food Production, CNR, Italy; ; Coordinator of EU Horizon2020 Program - MycoKey)
10:30 – 10:50	Coffee break - Poster presentation - Sponsor exhibition
10:50 – 11:20	Chair: Antonio Logrieco International collaborations: the key to detect, control and reduce mycotoxins in the food chain <ul style="list-style-type: none"> • Rudolf Krska (University of Natural Resources and Life Sciences, Austria)
11:20 – 11:50	Population structure and its mycotoxin chemotypes of <i>Fusarium</i> pathogenic spp. causing barley and wheat head blight in epidemic region of China <ul style="list-style-type: none"> • Dazhao Yu (Hubei Academy of Agricultural Sciences, China)
11:50 – 12:20	Fusarium mycotoxins in our staple foods: Is the pathogen one step ahead of us? - New hopes for decreasing DON accumulation in cereals through omics approaches <ul style="list-style-type: none"> • Dilantha Fernando (University of Manitoba, Canada)
12:20 – 14:00	Lunch break (Peri House Western Restaurant on the 3 rd Floor)
14:00 – 14:30	Chair: Hongxiang Ma Advances in detection technologies for mycotoxins <ul style="list-style-type: none"> • Peiwu Li (Oil Crops Research Institute, CAAS, China)
14:30 – 15:00	Key molecules in primary metabolism for mycotoxin production <ul style="list-style-type: none"> • Shohei Sakuda (Teikyo University, Japan)
15:00 – 15:30	Chemical control of Fusarium head blight of wheat in China <ul style="list-style-type: none"> • Zhonghua Ma (Zhejiang University, China)

15:30 – 16:00	Discovery of functional gene subnetwork modules associated with <i>Fusarium verticillioides</i> virulence and fumonisin regulation <ul style="list-style-type: none"> • Won Bo Shim – (Texas A&M University, USA)
16:00 – 16:20	Coffee break - Poster presentation - Sponsor exhibition
16:20 – 16:50	Chair: Won Bo Shim Breeding for the resistance to wheat Fusarium head blight in China <ul style="list-style-type: none"> • Hongxiang Ma (Institute of Food Crops, JAAS, China)
16:50 – 17:20	Fusarium – A major pest and an important model <ul style="list-style-type: none"> • John Leslie (Kansas State University, USA)
17:20 – 17:50	Fusarium head blight monitoring and prediction <ul style="list-style-type: none"> • Xiaoping Hu (Northwest A&F University, China)
17:50 – 18:20	Multiple mycotoxin monitoring in agricultural products in Thailand: Are they safe for consuming? <ul style="list-style-type: none"> • Amnart Poapolathep (Kasetsart University, Thailand)
19:00	Congress Dinner (Ballroom on the 3 rd Floor)

PROGRAM of 2ND MYCOKEY CONFERENCE

PROGRAM MONDAY 17/09/2018	
PARALLEL SESSIONS (Ballroom 1 on the 3 rd Floor)	
	<p>Session 1: Biodiversity & Toxigenic Fungi Monitoring Chairs: Hao Zhang & Emerson Del Ponte</p>
8:30 – 8:50	<p>The mycotoxigenic <i>Fusarium proliferatum</i>: a perfect example of the Great Beauty of fungal biodiversity</p> <ul style="list-style-type: none"> • Antonio Moretti (Institute of Sciences of Food Production, CNR, Italy)
8:50 – 9:10	<p>Unveiling the <i>Fusarium graminearum</i> species complex: a systematic literature review and analysis of global survey data on species and trichothecene genotypes</p> <ul style="list-style-type: none"> • Emerson Del Ponte (Universidade Federal de Viçosa, Brazil)
9:10 – 9:30	<p>Relevance and impact of biodiversity studies in <i>Aspergillus</i></p> <ul style="list-style-type: none"> • Juan Chen (Institute of Medicinal Plant Development, CAMS, China)
9:30 – 9:50	<p><i>Claviceps purpurea</i> and its propensity to form ergot alkaloids in cereal crops</p> <ul style="list-style-type: none"> • Tom Gräefenhan (Canadian Grain Commission, Canada)
9:50 – 10:10	<p>Monitoring of <i>Fusarium</i> species and chemotypes associated with Fusarium head blight on wheat in Hebei province, China</p> <ul style="list-style-type: none"> • Lijing Ji (Hebei Academy of Agricultural and Forestry Sciences, China)
10:10 – 10:30	Coffee break - Poster presentation - Sponsor exhibition
	<p>Session 1: Biodiversity & Toxigenic Fungi Monitoring Chairs: Antonio Moretti & Juan Chen</p>
10:30 – 10:50	<p>Population analysis of Fusarium crown rot pathogen from wheat in China</p> <ul style="list-style-type: none"> • Hao Zhang (Institute of Plant Protection, CAAS, China)
10:50 – 11:10	<p>Establishment and application of a loop-mediated isothermal amplification (LAMP) assay for detection of emerging toxigenic <i>Fusarium temperatum</i> in maize stalks and kernels</p> <ul style="list-style-type: none"> • Wei Guo (Institute of Food Science and Technology, CAAS, China)
11:10 – 11:30	<p>An investigation of fungal contamination in Ziziphi spinosae Semen</p> <ul style="list-style-type: none"> • Mengyue Guo (Institute of Medicinal Plant Development, CAMS, China)
11:30 – 11:50	<p>Analysis of population structure and distribution of <i>Fusarium asiaticum</i> in Southern China</p> <ul style="list-style-type: none"> • Meixin Yang (Institute of Plant Protection, CAAS, China)
11:50 – 12:10	<p>Investigation of aflatoxins, mycobiota, and toxigenic fungi during post-harvest handling of Ziziphi spinosae Semen</p> <ul style="list-style-type: none"> • Ximei Zhang (Institute of Medicinal Plant Development, CAMS, China)
12:10 – 14:00	Lunch break (Peri House Western Restaurant on the 3 rd Floor)
	<p>Session 4: Prevention in the Field Chairs: Sofia Chulze & Xu Zhang</p>
14:00 – 14:20	<p>Management of Fusarium head blight and deoxynivalenol contamination in Jiangsu Province</p> <ul style="list-style-type: none"> • Huaigu Chen (Jiangsu Academy of Agricultural Sciences, China)
14:20 – 14:40	<p>Characterisation of <i>Aspergillus flavus</i> population native of Romania</p> <ul style="list-style-type: none"> • Paola Battilani (Università Cattolica del Sacro Cuore, Italy)
14:40 – 15:00	<p>Evaluation of maize germplasm for resistance against ear rot causing agents of <i>Fusarium verticillioides</i> and <i>Fusarium graminearum</i></p> <ul style="list-style-type: none"> • Xiude Xu (Liaoning Academy of Agricultural Sciences, China)
15:00 – 15:20	<p>Effects of integrating cultivar resistance and fungicide application on Fusarium head blight and deoxynivalenol in winter wheat</p>

15:20 – 15:40	<ul style="list-style-type: none"> • Lijun Yang (Hubei Academy of Agricultural Sciences, China) Mycotoxins in nuts and dried fruits from Afghanistan <ul style="list-style-type: none"> • John Leslie (Kansas State University, USA)
15:40 – 16:00	Coffee break - Poster presentation - Sponsor exhibition
	Session 4: Prevention in the Field Chairs: Paola Battilani & Huaigu Chen
16:00 – 16:20	Dissection on the antagonistic mechanisms of <i>Trichoderma harzianum</i> against mycotoxin-producing <i>Fusarium</i> species <ul style="list-style-type: none"> • Aibo Wu (Shanghai Institutes for Biological Sciences, CAS, China)
16:20 – 16:40	Green leaf volatiles: new tools in an integrated disease and pest management in wheat? <ul style="list-style-type: none"> • Kris Audenaert (Ghent University, Belgium)
16:40 – 17:00	Candidate gene cloning and marker-assisted selection for Fusarium head blight resistance and DON accumulation in wheat <ul style="list-style-type: none"> • Xu Zhang (Jiangsu Academy of Agricultural Sciences, China)
17:00 – 17:20	Biological control to reduce the impact of mycotoxins in maize and wheat in Argentina <ul style="list-style-type: none"> • Sofia Chulze (Universidad Nacional de Rio Cuarto, Argentina)
17:20 – 17:40	What do mycoviruses do in their hosts <i>Fusarium graminearum</i> <ul style="list-style-type: none"> • Lihua Guo (Institute of Plant Protection, CAAS, China)
17:40 – 18:00	Present situation of <i>Fusarium</i> toxins on wheat in China <ul style="list-style-type: none"> • Jianrong Shi (Jiangsu Academy of Agricultural Sciences, China)
18:30	Buffet Dinner (Peri House Western Restaurant on the 3 rd Floor)
PARALLEL SESSIONS (Ballroom 2 on the 3 rd Floor)	
	Session 2: Mycotoxin Detection Technology Chairs: Sarah De Saeger & Qi Zhang
8:30 – 8:50	MycoKey developments in (multi) mycotoxin rapid screening methods <ul style="list-style-type: none"> • Sarah De Saeger (Ghent University, Belgium)
8:50 – 9:10	Preparation of reference materials for free and modified mycotoxins <ul style="list-style-type: none"> • Zheng Han (Shanghai Academy of Agricultural Sciences, China)
9:10 – 9:30	Development of sensitive and reliable UPLC-MS/MS methods for food analysis of emerging mycotoxins in China total diet study <ul style="list-style-type: none"> • Danlei Sun (China National Center for Food Safety Risk Assessment)
9:30 – 9:50	A CdSe/CdS quantum dot-based fluorescent immunoassay method for sensitive screening of aflatoxin B1 in medicinal herbs <ul style="list-style-type: none"> • Lei Zhang (Institute of Medicinal Plant Development, CAMS, China)
9:50 – 10:10	Rapid detection of fumonisin B1 using ELISA and colloidal gold immunoassay based on monoclonal antibody <ul style="list-style-type: none"> • Sumei Ling (Fujian A&F University, China)
10:10 – 10:30	Coffee break - Poster presentation - Sponsor exhibition
	Session 3: Functional Genomics of Toxigenic Fungi Chairs: Huiquan Liu & Won Bo Shim
10:30 – 10:50	TOR inhibits lipid droplet biogenesis via the FgNem1/Spo7-FgPah1 phosphatase cascade in <i>Fusarium graminearum</i> <ul style="list-style-type: none"> • Yun Chen (Zhejiang University, China)
10:50 – 11:10	Dual functions of Tri10 in <i>Fusarium graminearum</i> <ul style="list-style-type: none"> • Cong Jiang (Northwest A&F University, China)

11:10 – 11:30	Three <i>FgIDO</i> genes with differential roles in tryptophan catabolism and fungal development in <i>Fusarium graminearum</i> <ul style="list-style-type: none"> • Xin Liu (Jiangsu Academy of Agricultural Sciences, China)
11:30 – 11:50	RNA-Seq analysis reveals the molecular mechanism of enhanced DON-toxin production by cAMP-treatment in <i>Fusarium graminearum</i> <ul style="list-style-type: none"> • Mengchun Wu (Northwest A&F University, China)
11:50 – 12:10	The <i>Fusarium graminearum</i> histone acetyltransferases are important for morphogenesis, DON biosynthesis, and pathogenicity <ul style="list-style-type: none"> • Xiangjiu Kong (Institute of Plant Protection, CAAS, China)
12:10 – 14:00	Lunch break (Peri House Western Restaurant on the 3 rd Floor)
	Session 5: Remediation & Intervention Chairs: Giuseppina Avantaggiato & Yucai Liao
14:00 – 14:20	Mycotoxin reduction in maize by industrial-scale cleaning solutions <ul style="list-style-type: none"> • Michelangelo Pascale (Institute of Sciences of Food Production, CNR, Italy)
14:20 – 14:40	Microbial and enzymatic detoxification of trichothecene mycotoxin deoxynivalenol <ul style="list-style-type: none"> • Yucai Liao (Huazhong Agricultural University, China)
14:40 – 15:00	New methodology for the reduction of <i>Aspergillus flavus</i> and <i>Penicillium verrucosum</i> growth on cereals during storage <ul style="list-style-type: none"> • Giuseppe Meca (University of Valencia, Spain)
15:00 – 15:20	Efficacy assessment of different physico-chemical treatments in improving the performances of clay-based materials as multi-mycotoxin binder <ul style="list-style-type: none"> • Vito D'Ascanio (Institute of Sciences of Food Production, CNR, Italy)
15:20 – 15:40	Biomarker-based approach for efficacy testing of a multi-mycotoxin detoxifier in pigs <ul style="list-style-type: none"> • Amelie Catteuw (Ghent University, Belgium)
15:40 – 16:00	Coffee break - Poster presentation - Sponsor exhibition
	Session 5: Remediation & Intervention Chairs: Michelangelo Pascale & Giuseppe Meca
16:00 – 16:20	MycKey approaches to mitigate mycotoxins in feed: efficacy and authorization of mycotoxin detoxifying agents <ul style="list-style-type: none"> • Giuseppina Avantaggiato (Institute of Sciences of Food Production, CNR, Italy)
16:20 – 16:40	Lessons learned from more than 20 years of research in mycotoxin detoxification <ul style="list-style-type: none"> • Gerd Schatzmayr (BIOMIN Research Center, Austria)
16:40 – 17:00	Inhibitory effect of <i>Lactobacillus plantarum</i> on <i>Aspergillus flavus</i> growth and aflatoxin production <ul style="list-style-type: none"> • Yueju Zhao (Institute of Food Science and Technology, CAAS, China)
17:00 – 17:20	Effect of compound essential oils on the variation of microbiome and major mycotoxins production in stored maize <ul style="list-style-type: none"> • Fuguo Xing (Institute of Food Science and Technology, CAAS, China)
17:20 – 17:40	Physical stability, antifungal properties, and mycotoxin inhibitory activities of chitosan stabilized cinnamon oil-in-water emulsion <ul style="list-style-type: none"> • Dianhui Wu (Jiangnan University, China)
17:40 – 18:00	Biomonitoring of Human Exposure to Mycotoxins <ul style="list-style-type: none"> • Mark Sumarah (Agriculture and Agri-Food Canada, Canada)
18:30	Buffet Dinner (Peri House Western Restaurant on the 3 rd Floor)

PROGRAM of 2ND MYCOKEY CONFERENCE

PROGRAM TUESDAY 18/09/2018	
PARALLEL SESSIONS (Ballroom 1 on the 3 rd Floor)	
	Session 4: Prevention in the Field Chairs: Lihua Guo & Theo van der Lee
8:30 – 8:50	Characterization of QTL on chromosomes 3BL and 3DL associated with deoxynivalenol (DON) content in a bread wheat population <ul style="list-style-type: none"> • Pawan Kumar Singh (CYMMIT, Mexico)
8:50 – 9:10	Effective control a Fusarium head blight in wheat via combination of plant breeding and fungicide application <ul style="list-style-type: none"> • Ákos Mesterhazy (Cereal Research Non-Profit Ltd, Hungary)
9:10 – 9:30	Studies on the mode of action of dioctatin that inhibits aflatoxin production of <i>Aspergillus</i> species <ul style="list-style-type: none"> • Tomohiro Furukawa (Teikyo University, Japan)
9:30 – 9:50	Effects of cultivar resistance, fungicide application timing, and fungicide chemical class on FHB and DON in winter wheat in China <ul style="list-style-type: none"> • Fei Xu (Henan Academy of Agricultural Sciences, China)
9:50 – 10:10	Towards a comprehensive understanding of genetic determinants underlying <i>Fusarium</i> resistance and mycotoxin contamination in maize <ul style="list-style-type: none"> • Alessandra Lanubile (Università Cattolica del Sacro Cuore, Italy)
10:10 – 10:30	Coffee break - Poster presentation - Sponsor exhibition
	Session 4: Prevention in the Field Chairs: Pawan Kumar Singh & Ákos Mesterhazy
10:30 – 10:50	Genome-wide analysis of family-1 UDP glycosyltransferases (UGT) and identification of UGT genes for FHB resistance in wheat (<i>Triticum aestivum</i> L.) <ul style="list-style-type: none"> • Yi He (Jiangsu Academy of Agricultural Sciences, China)
10:50 – 11:10	Biogenic volatile compounds (BVOCs) produced by fungal endophytes reduce zearalenone (ZEN) and trichothecenes produced by <i>Fusarium graminearum</i> <ul style="list-style-type: none"> • Mohamed Fathi Abdallah (Ghent University, Belgium)
11:10 – 11:30	Effect of biofungicides tetramycin on Fusarium head blight and deoxynivalenol content in n soft red winter wheat <ul style="list-style-type: none"> • Shuangjun Gong (Hubei Academy of Agricultural Sciences, China)
11:30 – 11:50	The interaction of water activity and temperature to control growth, gene cluster expression and aflatoxin production by <i>Aspergillus flavus</i> in rice <ul style="list-style-type: none"> • Jing Jin (Institute of Food Science and Technology, CAAS, China)
PLENARY SESSION (Ballroom on the 3 rd Floor)	
12:00 – 12:20	Closing remarks: Jie Feng (Local Organizing Committee) & Antonio Logrieco (Coordinator of MycoKey, ISPA-CNR, Italy)
12:20 – 14:00	Buffet Lunch (Peri House Western Restaurant on the 3 rd Floor)

PARALLEL SESSIONS (Ballroom 2 on the 3 rd Floor)	
	<p style="text-align: center;">Session 6: Food Processing & Toxicology</p> <p style="text-align: right;">Chairs: Arja Laitila & Aibo Wu</p>
8:30 – 8:50	Biocontrol strategies for Fusarium management in the malting chain <ul style="list-style-type: none"> • Arja Laitila (VTT, Finland)
8:50 – 9:10	Novel insights in the fate of deoxynivalenol during the production of crackers, biscuits and bread under pilot plant conditions <ul style="list-style-type: none"> • David Stadler (University of Natural Resources and Life Sciences, Austria)
9:10 – 9:30	Uniting large-scale databases to unravel the impact of chronic multi-mycotoxin exposure on colorectal cancer incidence in Europe <ul style="list-style-type: none"> • Marthe De Boevre (Ghent University, Belgium)
9:30 – 9:50	Development of emulsion based delivery systems for control of <i>Fusarium</i> growth and mycotoxins during food processing <ul style="list-style-type: none"> • Jiajia Rao (North Dakota State University, USA)
9:50 – 10:10	Comparative toxicokinetics and plasma protein binding of ochratoxin A in four avian species <ul style="list-style-type: none"> • Mathias Devreese (Ghent University, Belgium)
10:10 – 10:30	Coffee break - Poster presentation - Sponsor exhibition
	<p style="text-align: center;">Session 7: Modelling & ICT Solutions</p> <p style="text-align: right;">Chairs: Kris Audenaert & Xiaoping Hu</p>
10:30 – 10:50	MycoKey app: an ICT solution to facilitate mitigation of mycotoxin risks <ul style="list-style-type: none"> • Theo van der Lee (Wageningen Plant Research, The Netherlands)
10:50 – 11:10	Comparison of three modelling approaches for predicting deoxynivalenol contamination in winter wheat <ul style="list-style-type: none"> • Cheng Liu (RIKILT, The Netherlands)
11:10 – 11:30	Development of the monitoring and early warning system for DON contamination <ul style="list-style-type: none"> • Chengqi Zhang (Anhui Agricultural University, China)
11:30 – 11:50	Modelling the ecological needs of fungi and mycotoxins in cheese <ul style="list-style-type: none"> • Marco Camardo Leggieri (Università Cattolica del Sacro Cuore, Italy)
CLOSING SESSION (Ballroom on the 3 rd Floor)	
12:00 – 12:20	Closing remarks: Jie Feng (Local Organizing Committee, IPP-CAAS, China) & Antonio Logrieco (Coordinator of MycoKey, ISPA-CNR, Italy)
12:20 – 14:00	Buffet Lunch (Peri House Western Restaurant on the 3 rd Floor)