



41st Mycotoxin Workshop Lisbon 2019 | Program

Conference venue:

Lisbon School of Health Technology, Instituto Politécnico de Lisboa (ESTeSL-IPL)

Av. D. João II, lote 4.69.01, Parque das Nações

1990-096 Lisboa

<https://www.estesl.ipl.pt/en/location>

Sunday, May 5th 2019

18:00 - Get together, República da Cerveja (Parque das Nações)

Edifício República da Cerveja – Passeio das Tágides, Lote 2.26.01 Parque das Nações

<https://republicadacerveja.pt/>

More information and registration via Doodle:

<https://doodle.com/poll/kx4htyre7tv433ks>

Monday, May 6th 2019

08:00 Registration

09:00 Welcome

Session 1 Mycology

09:15 **Impact of host plant, host plant genotype and *Fusarium***
L1 **genotype on infection development and consequences of crop**
rotation as control measure

Elias Alisaac, Petr Karlovsky, Heinz-W. Dehne

09:30 **Molecular-genetic identification of *Fusarium temperatum* from**
L2 **German corn breeding areas and characterization of its**
mycotoxin spectrum

Simon Schiwiek, Annette Pfordt, Anna Rathgeb, Andreas von
Tiedemann, Petr Karlovsky

09:45 **Impact of *velA* and *briaA* genes on the secondary metabolome of**
L3 ***Penicillium expansum***

Chrystian Zetina, Christelle El Hajj Assaf, Ophélie Rocher, Selma P
Snini, Emilien L Jamin, Jean-François Martin, Isabelle P Oswald,
Olivier Puel, Sophie Lorber

10:00 **Regulation of the citrinin biosynthesis in *Penicillium expansum***
L4 **by pH**

Najim Touhami, Markus Schmidt-Heydt, Rolf Geisen

10:15 – 11:00 **Coffee break / Exhibition**

Session 2 Occurrence in feed and food I

11:00 **Multi-Mycotoxin Occurrence in Feed: The case of one dairy farm**
L5 **located in Portugal**

Susana Viegas, Magdalena Twarużek, Robert Kosicki, Jan Grajewski, Carla Viegas

11:15 **Mycotoxin contamination in maize in the Philippines: Diversity,**
L6 **distribution and toxigenicity of *Aspergillus* and *Fusarium* species**

Christian Joseph Cumagun, Bosse Schwedt, Anna Rathgeb, Petr Karlovsky

11:30 **Deoxynivalenol and zearalenone stability during the malting**
L7 **and brewing processes**

Karim Piacentini, Sylvie Belaková, Karolina Benesova, Marek Pernica, Liliana Rocha, Geovana Savi, Ivo Hartman, Josef Caslavsky, Benedito Correa

11:45 **Mitigation of deoxynivalenol during industrial baking**
L8 **David Stadler**, Francesca Lambertini, Christoph Bueschl, Lydia

Woelflingseder, Christian Hametner, Heidi Schwartz-Zimmermann, Roland Hellinger, Michael Sulyok, Marc Lemmens, Doris Marko, Rainer Schuhmacher, Michele Suman, Franz Berthiller, Rudolf Krska

12:00 **Rarely described decarboxycitrinin is a thermal decomposition**
L9 **product of citrinin in pan-fried buckwheat blinis**

Christine Schwake-Anduschus, Christina Gauerhof, Benedikt Cramer, Hans-Ulrich Humpf

12:15 **Occurrence of mycotoxins in herbs commercialized in Brazil**
L10 **and their infusions**

Lucas Caldeirão, Helena Godoy, João Souza, José Fernandes, Sara Cunha

12:30 – 14:00 **Lunch**

13:30 – 14:30 **Poster Session / Exhibition**

Session 3 Occurrence in feed and food II

14:30 **Afla-Z-An international cooperation project between German
L11 and African Research institutions**

Eva Priesterjahn, Alexandra Schamann, Julius Albert, Christian Roder, Rolf Geisen, Hans-Georg Walte, Christine Schwake-Anduschus, Dorothea Link, Katherine Munoz, Jutta Milde, Wolfgang Büchs, Torsten Meiners, Janine Saltzmann, Sven Dänicke, Charles Nkonge, Markus Schmidt-Heydt

14:45 **Development of an integrated (e) toolbox to control and reduce
L12 mycotoxins along the food and feed chain**

Rudolf Krska

Session 4 Toxicity and mode of action I

15:00 **Protective effect of *Patrinia villosa* against toxic effects induced
L13 by deoxynivalenol in HepG2 cells**

Oluwatobi Kolawole, Qiqi He, Chen Situ, Lisa Connolly, Chris Elliott

15:15 **Refined structure, absolute configuration, and cytotoxicity of
L14 auranthine**

Svetlana A. Kalinina, Dmitrii V. Kalinin, Yannick Hövelmann, Constantin G. Daniliuc, Christian Mück-Lichtenfeld, Benedikt Cramer, Hans-Ulrich Humpf

15:30 **Proteomic profiling reveals molecular cell responses to
L15 deoxynivalenol treatment in human A431 epidermoid squamous carcinoma cells**

Giorgia Del Favero, Lukas Janker, Benjamin Neuditschko, Julia Hohenbichler, Lydia Woelflingseder, Christopher Gerner, Doris Marko

15:45 – 16:30 **Coffee-break / Exhibition**

16:30 – 17:30 **Meeting of the members of the Society for Mycotoxin Research**

16:30 – 18:00 **Poster session / Exhibition**

18:00 – 22:00 **Dinner (ESTeSL)**

Tuesday, May 7th 2019

Session 5 Toxicity and mode of action II

09:00 **Sex differences in ochratoxin A nephrotoxicity. A molecular approach to the mechanism of action**
L16

Ariane Vettorazzi, Laura Pastor, Elizabeth Guruceaga, Adela López de Cerain

09:15 **Epithelial-fibroblast cross talk enhances the toxicity of ochratoxin A (OTA) in nanomolar concentrations**
L17

Marie-Christin Schulz, Michael Gekle, Gerald Schwerdt

09:30 ***Alternaria* toxins in chemical mixtures: anti-estrogenic behavior and underlying mechanisms**
L18

Georg Aichinger, Franziska Krüger, Doris Marko

09:45 **An *in silico* structural approach to study the possible inter-individual variability of mycotoxins action: a focus on androgenic and estrogenic activity of zearalenone and alternariol**
L19

Luca Dellafiora, Gianni Galaverna, Chiara Dall'Asta

10:00 **Individual and combined effect of a mycotoxin, the deoxynivalenol, and a metal trace element, the cadmium on the intestinal barrier: in vitro and in vivo analysis**
L20

Su Luo, Ana-Paula Bracarense, Chloe Terciolo, Delphine Payros, Philippe Pinton, Isabelle P. Oswald

10:15 **Co-occurrence of mycotoxins and bacterial toxins: combinatory effects of deoxynivalenol and cereulide on human intestinal cells**
L21

Julia Beisl, Helen Abeln, Gudrun Pahlke, Monika Ehling-Schulz,
Doris Marko

10:30 – 11:15 **Coffee-break / Exhibition**

Session 6 Human Health | Exposure (Dietary & Inhalatory)

11:15 **Dietary mycotoxins exposure and child growth, immune
L22 system, morbidity, and mortality: a systematic literature review**

Kokeb Tesfamariam, Marthe De Boevre, Tefera Belachew, Patrick
Kolsteren, Addisalem Mesfin, Sarah De Saeger, Carl Lachat

11:30 **Risks vs Benefits of nuts consumption in Portugal: the balance
L23 between preventable myocardial infarctions and the burden of
the liver cancer associated to aflatoxin exposure**

Ricardo Assunção, Lea S. Jakobsen, Paula Alvito, Paulo Carmona,
Catarina Carvalho, Carla Lopes, Carla Martins, Sarogini Monteiro,
Pedro Nabais, Daniela Correia, Duarte Torres, Carla Viegas, Susana
Viegas, Maarten Nauta, Sara M. Pires

11:45 **Mycotoxin Air Sampling in Indoor Environments and Sentinel
L24 Health Investigations. What have we Learned in 20 Years?**

Eckardt Johanning, Manfred Gareis

12:00 **Airborne mycotoxin exposure - an instance for a well-balanced
L25 risk communication**

Stefan Mayer

12:15 **Inhalation exposure of mycotoxins**

L26 Elena Piecková, Marta Hurbánková, Zuzana Kolláriková, Soňa
Wimmerová, Mária Globanová

12:30 – 13:30 **Lunch**

13:00 – 14:00 **Poster Session / Exhibition**

Session 7 Human Health / Exposure (Biomonitoring I)

14:00
L27 **Detection and quantification of the ochratoxin A (OTA) metabolite ochratoxin-N-acetyl-L-cysteine (OTB-NAC) in human urine**

Franziska Sueck, Jonas Specht, Benedikt Cramer, Hans-Ulrich Humpf

14:15
L28 **Determination of aflatoxins and ochratoxin A in biological fluids by LC-HRMS**

Carlo Brera, Francesca Debegnach, Elisa Sonogo, Gianmarco Mazzilli, Francesca Buiarelli, Barbara De Santis

14:30
L29 **Validation of an analytical method for the determination and quantification of mycotoxins in human plasma by LC-MS/MS**

Beatriz Arce-López, Elena Lizarraga, Myra Flores-Flores, Ángel Irigoyen, Elena González-Peñas

14:45
L30 **The Use of Aflatoxin-Lysine in Human Biomonitoring: Synthesis, Mass Spectrometric Detection and Reference Materials**

Bernd Osteresch, Benedikt Cramer, Janine Winkler, Sven Dänicke, Hans-Ulrich Humpf

15:00 – 15:45 **Coffee break**

Session 8 Human Health / Exposure (Biomonitoring II)

15:45
L31 **Biomonitoring data as a tool for assessing aflatoxin B₁ exposure of workers: Portuguese and Italian case studies (BIODAF project)**

Barbara De Santis, Carlo Brera, Francesca Debegnach, Fulvio Ferri, Elisa Sonogo, Gianmarco Mazzilli, Susana Viegas, Paula Alvito, Carla Martins

16:00
L32 **Human breast milk biomonitoring: a study to assess exposure of nursing infants to Ochratoxin A**

Marta Gimbi, Sofia Duarte, Anabela Almeida, Liliana Silva, André Pereira, Celeste Lino, Angelina Pena

16:15
L33

Biomonitoring of mycotoxins in serum and urine of Swedish adolescents (Riksmaten 2016-2017): assessments of exposure and association to food intake and other background characteristics

Monica Olsen, Andrea Montano Montes, Jessica Schmidt, Benedikt Cramer, Hans-Ulrich Humpf, Eva Warensjö Lemming

16:30
L34

Mycotoxins under the Human Biomonitoring Initiative (HBM4EU): challenges in the near future

Paula Alvito, Elsa Vasco, Carla Martins, Ricardo Assunção, Rosa Lange, Geert Schoeters, Marike Kolossa-Gehring, Susana Viegas, Maria João Silva

16:45 – 17:30

Poster Session / Exhibition

18:00

Departure of the buses to Convento do Beato

18:30

Dinner at:

Convento do Beato

Rua do Beato, 48

1950-427 Lisboa

<http://www.conventodobeato.com/eng.html>

Wednesday, May 8th 2019

Session 9 Animal Health

9:30
L35 ***In vitro* rumen simulations show a lower disappearance of deoxynivalenol, nivalenol, zearalenone and enniatin B at conditions of rumen acidosis and at dry conditions**

Sandra Debevere, Siegrid De Baere, Geert Haesaert, Michael Rychlik, Siska Croubels, Veerle Fievez

9:45
L36 **Occurrence, oral bioavailability and toxicokinetics of citrinin in a porcine animal model**

Celine Meerpoel, Arnau Vidal, Bart Huybrechts, Emmanuel Tangni, Sarah De Saeger, Mathias Devreese, Siska Croubels

10:00
L37 **Validated multi-mycotoxin analysis using dried blood spots for pigs and broiler chickens applied in a screening and toxicokinetics study**

Marianne Lauwers, Siska Croubels, Ben Letor, Mathias Devreese

10:15 – 11:00 **Coffee break / Poster session / Exhibition**

11:00
L38 **Calculating the risk for fish health caused by mycotoxin exposure**

Constanze Pietsch

11:15
L39 **The AquaMyc Project – Tolerance of Atlantic salmon to novel feed mycotoxins**

Kai Kristoffer Lie, Veronika Sele, Liv Søfteland, Sofie Karin Söderström, Josef Daniel Rassinger, Sylvain Merel, Rita Hanisdal, Robin Ørnsrud, Marc Berntssen

11:30 **Closing session**