

# MYCORED AFRICA

## 2011 CONFERENCE PROGRAMME

### 4-6 April 2011 | CTICC | Cape Town | South Africa

#### SUNDAY, 3 APRIL

16.00 – 18.00 REGISTRATION

18.00 – 20.00 WELCOME RECEPTION

#### MONDAY, 4 APRIL

07.30 – 09.00 REGISTRATION

OPENING SESSION MYCORED AFRICA 2011

09.00 – 09.15 OPENING / WELCOME  
**Gordon S Shephard**, PROMEC Unit, Medical Research Council, Tygerberg, South Africa

09.15 – 09.45 **Walter FO Marasas**, PROMEC Unit, Medical Research Council, Tygerberg, South Africa  
*Mycotoxological Research in South Africa: 1910-2011*

09.45 – 10.15 **Antonio F Logrieco**, Institute of Sciences of Food Production (ISPA), National Research Council, Bari, Italy  
*(Title to be confirmed)*

10.15 – 10.45 **Christopher P Wild**, International Agency for Research on Cancer, Lyon, France  
*Mycotoxins in Human Disease: A Largely Ignored Global Health Problem*

10.45 – 11.15 COFFEE / POSTERS

HUMAN HEALTH ISSUES

11.15 – 11.40 **Felicia Wu**, Department of Environmental and Occupational Health, University of Pittsburgh, Pittsburgh, USA  
*Global Burden of Aflatoxin-Induced Disease: The Economics of Interventions*

11.40 – 12.05 **Renata Clarke**, Food Control and Consumer Protection Group, Nutrition and Consumer Protection Division, Food and Agriculture Organization, Rome, Italy  
*Mycotoxin Contamination and their Impact on Food Security: The Need for More Integrated Approaches to Programmes of Mycotoxin Control*

12.05 -12.30 **Carl F Albrecht**, Cancer Association of South Africa, Cape Town, South Africa  
*(Title to be confirmed)*

12.30 – 13.30 LUNCH

13.30 – 14.00 **Ronald T Riley**, Toxicology and Mycotoxin Research Unit, US Department of Agriculture, Athens, USA  
*Fumonisin as a Possible Contributing Factor to the High Incidence of Neural Tube Defects in Populations Consuming Large Amounts of Maize*

14.00 – 14.20 **Martin E Kimanya**, Tanzanian Food and Drugs Authority, Dar es Salaam, Tanzania  
*Risk and Management Options for Fumonisin in Maize-based Complementary Foods in Tanzania*

14.20 – 14.40 **Hester-Mari Burger**, PROMEC Unit, Medical Research Council, Tygerberg, South Africa  
*Fumonisin Risk Analysis in a Rural Population of South Africa: A Multidisciplinary Approach*

14.40 – 15.00 **Jonathan H Williams**, College of Agriculture and Environment Sciences, University of Georgia, Griffin, USA  
*The Relationship between Maize Consumption and HIV in Africa*

15.00 – 15.20 **Annie Pfohl-Leszkowicz**, Department Bioprocess and Microbial System, UMR/CNRS/INPT/UPS, Toulouse, France  
*Identification by LC-MS/MS of C8-2'-deoxyguanosine OTA-adduct in Vivo: Correlation with OTA Quinone Metabolites*

15.20 – 15.50 COFFEE / POSTERS

FUNGAL AND MYCOTOXIN CONTAMINATION IN AFRICA

15.50 – 16.10 **Gert J van Coller**, Western Cape Department of Agriculture, Elsenburg, South Africa  
*Fusarium Spp. Associated with Head Blight of Wheat in South Africa*

16.10 – 16.30 **Samuel Bankole**, Department of Microbiology, Olabisi Onabanjo University, Ago-Iwoye, Nigeria  
*Survey of Ergosterol, Zearalenone and Trichothecenes Mycotoxins in Maize from Nigeria*

16.30 – 16.50 **Mweshi Mukanga**, Zambia Agricultural Research Institute, Mount Makulu Central Research Station, Zambia  
*Mycotoxin Contamination of Tropical Maize and Progress towards Breeding for Mycotoxin Free Maize in Zambia*

16.50 – 17.10 **Emmanuel S Monyo**, ICRISAT Chitedze Research Station, Lilongwe, Malawi  
*Occurrence and Distribution of Aflatoxin Contamination in Malawi*



## TUESDAY, 5 APRIL

### CLIMATE CHANGE: QUO VADIS FOR FUNGI AND MYCOTOXINS?

08.30 – 09.00

**J David Miller**, Department of Chemistry, Carleton University, Ottawa, Canada  
(Title to be confirmed)

### STRATEGIES TO MANAGE AND CONTROL THE MYCOTOXIN MENACE

09.00 – 09.25

**Alicia Marroquin-Cardona**, Veterinary Integrative Biosciences, Texas A&M University, College Station, USA  
*Mineral Characterization and Aflatoxin B1 Adsorption Capacity of Geophagic Clays from Africa*

09.25 – 09.50

Speaker to be confirmed

09.50 – 10.10

**Gary P Munkvold**, Department of Plant Pathology and Seed Science Center, Iowa State University, Ames, USA  
*Potential Impact of Area-wide European Corn Borer Suppression on Fumonisin Levels in Maize*

10.10 – 10.30

**John P Rheeder**, PROMEC Unit, Medical Research Council, Tygerberg, South Africa  
(Title to be confirmed)

10.30 – 11.00

COFFEE / POSTERS

11.00 – 11.20

**Ranjit Bandyopadhyay**, International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria  
*Biological Control of Aflatoxins: Experiences from Africa*

11.20 – 11.40

**Liana van der Westhuizen**, PROMEC Unit, Medical Research Council, Tygerberg, South Africa  
*Reducing Exposure to Fumonisin in a South African Maize Subsistence Community*

11.40 – 12.00

**Michele Solfrizzo**, Institute of Sciences of Food Production (ISPA), National Research Council, Bari, Italy  
*Multi-mycotoxin Biomarkers: Method Development and Their Use to Monitor Human Exposure and to Assess in Vivo the Efficacy of Detoxification Strategies*

12.00 – 12.20

**Hanneke Alberts**, Department of Microbiology, University of Stellenbosch, Stellenbosch, South Africa  
*Degradation of Aflatoxin B1 by Rhodococcus erythropolis Enzymes through Extracellular Expression in Escherichia coli*

12.20 – 12.40

**Papa M Diedhiou**, Université de Thiès, Département Productions Végétales, Thiès, Sénégal  
*Effect of Different Cooking Methods on Aflatoxin Fate in Peanut Products*

12.40 – 13.40

LUNCH

13.40 – 14.40

POSTER SESSION

14.40 –

**The AflaControl Project**  
*Results of a project facilitated by IFPRI, on Aflatoxin prevalence and mitigation along the peanuts and maize value chains in Mali and Kenya. Presenters will include Clare Narrod and Marites Tiongco (IFPRI), Farid Waliyar and Jupiter Ndjeunga (ICRISAT, Niger), Felicia Wu (University of Pittsburg), George Mahuku and Jonathan Hellin (CIMMYT) and other collaborating institutions (ACDi-Voca, IER, KARI and Uniformed Services University of the Health Sciences). Titles and presenters to be confirmed.*

19.00 –

CONFERENCE DINNER



## WEDNESDAY, 6 APRIL

### MYCOLOGY AND CHEMISTRY

09.00 – 09.30	<b>Robert H Proctor</b> , National Center for Agricultural Utilization Research, US Department of Agriculture, Peoria, USA <i>Variability in Mycotoxin Biosynthetic Genes and Gene Clusters in Fusarium and its Implications for Mycotoxin Contamination of Crops</i>
09.30 – 09.55	<b>Naresh Magan</b> , Applied Mycology Group, Cranfield University, Bedford, UK <i>Systems Approach to Integrating Molecular and Ecology Data for Predicting Mycotoxin Production</i>
09.55 – 10.20	<b>Rudolf Krska</b> , Department for Agrobiotechnology (IFA-Tulln), University of Natural Resources and Life Sciences, Tulln, Austria <i>New Insights into Mycotoxin Formation and Metabolism in Plants and Foods through Modern LC-MS Methods</i>
10.20 – 10.40	<b>Kristian F Nielsen</b> , Department of Systems Biology, Technical University of Denmark, Kongens Lyngby, Denmark <i>Fusarium Toxins in South African Maize – UHPLC-qTOF Analysis of Single Kernels from Single Cobs</i>
10.40 – 11.00	<b>Angelo Visconti</b> , Institute of Sciences of Food Production (ISPA), National Research Council, Bari, Italy <i>Advances in Rapid Methods for Mycotoxin Analysis in Food Products</i>
11.00 – 11.30	COFFEE / POSTERS
11.30 – 12.00	<b>John F. Leslie</b> , Department of Plant Pathology, Kansas State University, Manhattan, USA <i>Fusarium Species from Sorghum and Millet</i>
12.00 – 12.20	Speaker to be confirmed
12.20 – 12.40	<b>Paola Battilani</b> , Institute of Entomology and Plant Pathology, Università Cattolica del Sacro Cuore, Piacenza, Italy <i>The Added Value of the Modelling Approach in Mycotoxin Mitigation</i>
12.40 – 13.00	<b>Michael Sulyok</b> , Department for Agrobiotechnology (IFA-Tulln), University of Natural Resources and Life Sciences, Tulln, Austria <i>What's Underneath the Tip of the Iceberg? Mycotoxins beyond the Regulations</i>
13.00 – 13.45	LUNCH
13.45 – 14.15	MEETING – PROPOSAL FOR AFRICAN MYCOTOXIN NETWORK
14.15 – 14.35	<b>Nancy Zabe</b> , VICAM, A Waters Business, Milford, USA <i>A New Rapid and Easy Test Kit for Deoxynivalenol</i>
14.35 – 14.55	<b>Jens Dahlman</b> , ABSCIEX, Darmstadt, Germany <i>Simultaneous Analysis of 14 Mycotoxins and 163 Pesticides in Crude Extracts of Grains by LC/MS/MS</i>
14.55 – 15.15	<b>Jonathan H Williams</b> , College of Agriculture and Environment Sciences, University of Georgia, Griffin, USA <i>Challenges to Reducing Mycotoxin Exposure and Risk in Developing Countries: Priorities and Perceptions</i>
15.15 – 15.30	PRIZES AND CLOSING