



Program draft

Get together: 27.9.2022, 19:00 Restaurant Diomira

Day 1: 28.9.2022

9:00 Opening (Enrique Quesada: IOBC-WPRS Liaison; Michael Meissle: working group convenor, Hermann Broll: local organizer/housekeeping)

9:20 **New tools for the Integrated Production toolbox and food systems**

Invited: Update on new plant varieties developed through Genome Editing (*Frank Hartung, JKI, Germany*)

9:50 Uniparental genome elimination in carrot (*Daucus carota* L.) by targeting CENH3 via CRISPR/Cas9 (*Katharina Unkel, Julius Kuehn-Institute, Quedlinburg, Germany*)

10:10 Invited: An outlook on crops derived from New Genomic Techniques with potential for disease control (*Emilio Rodriguez-Cerezo, JRC, Sevilla, Spain*)

10:40 **Coffee break**

11:10 Field trials in Sweden of potato with changed expression of resistance and susceptibility genes (*Erik Andreasson, Swedish University of Agricultural Sciences, Sweden*)

11:30 Economic and environmental impacts of disease resistant crops developed with cisgenesis (*Kevin Schneider, JRC, Sevilla, Spain*)

11:50 A domain-based approach informs on the specificity profile of new insecticidal beta pore forming proteins Vpb4Da2 and Mpp75Aa1.1 (*Andre Silvanovich, Bayer Crop Science*)

12:10 Invited: How plant breeding innovation can contribute to EU policy objectives – current examples and future developments (*Markus Gierth, German Plant Breeders Association, Germany*)

12:40 **Lunch break**

14:10 Invited: Genetic control for agriculture – understanding the options (*Marc Schetelig, Uni Giessen, Germany*)

14:40 Current and prospective methods to facilitate Sterile Insect Technique programs (*Roswitha Aumann, Justus-Liebig-University, Giessen, Germany*)

15:00 **Public acceptance of biotechnological applications in agriculture**

Invited: Open Science: Opportunities and Challenges (*Kevin Elliott, Michigan State University, USA*)

15:30 **Coffee break**

16:00 Invited: Bayer's commitments to transparency: Opening up our science to build public trust (*Charlotte Morr, Bayer Crop Science, Monheim, Germany*)

16:30 Invited: Reflections on the BfR consumer conference on genome editing - bridging gaps between citizens' and experts' risk perspectives (*Gaby-Fleur Böl, German Federal Institute for Risk Assessment, Berlin, Germany*)

17:00 Communication on plant breeding and genome editing in plants – results of the Cropbooster-P project (*Ralf Wilhelm, Julius-Kuehn Institute, Quedlinburg, Germany*)

17:20 **End of day 1**

Day 2: 29.9.2022

9:00 **Challenges in risk assessment and regulation of biotechnological applications in agriculture (I)**

Invited: Regulation of genome edited crops – European Union (EU) perspective
(*Detlef Bartsch, BVL, Berlin, Germany*)

9:30 Invited: Regulation of genome edited crops – global perspective (*Bertrand Dagallier, OECD, Paris, France*)

10:00 Challenges in the detection, identification and authorization of GMOs resulting from the new genomic techniques (*Slawomir Sowa, Plant Breeding and Acclimatization Institute – National Research Institute, Radzików, Poland*)

10:20 Coffee break

10:50 Assessment of the real-time PCR method claiming to be specific for detection and quantification of the first commercialized genome edited plant (*Christopher Weidner, BVL, Berlin, Germany*)

11:10 **Keynote:** GMOs in Australian agriculture for pest and weed control – regulation, risk assessment and risk management (*Peter Thygesen, OGTR, Canberra, Australia*)

11:50 The status of Nigeria biosafety system (*Onyeka Nwosu, National Biosafety Management Agency, Abuja, Nigeria*)

12:10 Modern Biotechnology in Zimbabwe, the status quo and its projected path (*Nyasha Mutsau, National Biosafety Authority, Harare, Zimbabwe*)

12:30 Lunch break & group photo

14:00 **Sustainability of biotechnological applications in agriculture**

Invited: Life cycle assessments of biotech products (*Maria Hingsamer, Joanneum Research, Graz, Austria*)

14:30 Invited: Genetic engineering and agroecology: opportunities for synergism?
(*Lambertus Lotz, Wageningen University & Research, Wageningen, The Netherlands*)

15:00 Coffee break

15:30 **Panel discussion:** How to combine innovation & precaution for sustainable agriculture - expectations for new ways forward. *Confirmed panelists: Peter Thygesen (OGTR, Canberra, Australia); Markus Gierth (German Plant Breeders Association, Germany); Sirkku Heinimaa (European Commission, DG Health and Food Safety, Brussels, Belgium); Gaby-Fleur Böl (German Federal Institute for Risk Assessment, Berlin, Germany).* Intro by Panelists, 5 Min. each

15:50 Moderated discussion

16:30 End of Day2

20:00 Conference dinner, Restaurant Diomira

Day 3: 30.9.2022

9:00 Challenges in risk assessment and regulation of biotechnological applications in agriculture (II)

Bt maize and non-target animals – a systematic review (*Michael Meissle, Agroscope, Switzerland*)

9:40 Invited: Synthetic biology: biosafety design considerations (Patrick Rüdelsheim, Perseus, Sint Martens Latem, Belgium)

10:10 Invited: Synthetic biology: diverging stakeholder views (*Wendy Craig, International Centre for Genetic Engineering & Biotechnology, Padriciano, Italy*)

10:40 **Coffee break**

11:10 **Keynote:** Assessment tools for decision making for area wide malaria vector control using gene-drive approaches (Geoff Turner, Imperial College, London, UK)

11:50 Assessing the hybridization potential between a hypothetical gene drive-modified *Drosophila suzukii* strain and non-target *Drosophila* species (Jörg Romeis, Agroscope. Switzerland)

12:10 Application, regulation and safety of RNAi in agriculture, and potential for harmonization (*Gijs Kleter, WUR, Wageningen, The Netherlands*)

12:40 Challenges, considerations and current status in the EU for dsRNA-based externally applied pesticides for plant protection (*Dominik Klinkenbuss, Federal Office of Consumer Protection and Food Safety, Braunschweig, Germany*)