Monday, 10 November MORNING			
09:00–09:30	Welcome addresses **Hennie Groenewald**, *Biosafety South Africa* **Morven McLean**, *Center for Environmental Risk Assessment, ILSI Research Foundation, USA* (President of ISBR) Student Awards - **Raymond Layton** *for the Agricultural Biotechnology Stewardship Technical Committee (ABSTC)* - **Ben Durham** *for the Department of Science & Technology*		
09:30–10:00	**The Honourable Grace Naledi Mandisa Pandor** *Minister of Science and Technology, Republic of South Africa*		
10:00–10:30	**COFFEE BREAK**		
	Plenary Session I: Advancing ERA – Fit for Purpose *Chairs: **Joe Smith**, former Gene Technology Regulator, Australia, and **Raymond Layton**, DuPont Pioneer, USA*		
10:30–10:40	Introduction – what do we mean by 'fit for purpose' risk assessment? **Raymond Layton**, *DuPont Pioneer, USA*		
10:40–11:00	Modernising comparative risk assessments **Phil Macdonald**, *Canadian Food Inspection Agency, Canada*		
11:00–11:20	Fit for purpose risk assessment – the Malaysian experience **Ramatha Letchumanan**, *Department of Biosafety Malaysia, Malaysia*		
11:20–11:40	Fit for purpose risk assessment – the Argentinean experience **Martin Lema**, *Biotechnology Directorate, Secretariat of Agriculture, Livestock and Fisheries, Argentina*		
11:40–12:00	Building better risk assessments with fewer resources **Paul Keese**, *Office of the Gene Technology Regulator, Australia*		
12:00–12:25	Panel discussion **Joe Smith** (moderator)		
12:25–14:00	**LUNCH**		
AFTERNOON			
14:00–17:30	**Parallel Session I** **The Basic Elements of ERA: Practical Approaches** *Organizers: **Dennis Ndolo Obonyo,** International Centre for Genetic Engineering and Biotechnology (ICGEB), and **John Komen**, Program for Biosafety Systems*	**Parallel Session II** **RNAi and Environmental Risk Assessment of GE Plants** *Organizer: **Andrew F Roberts**, Center for Environmental Risk Assessment, ILSI Research Foundation, USA*	**Parallel Session III** **The Long and Winding Road for Regulatory Approval of GM Forest Trees** *Organizers: **Armand Séguin**, Canadian Forest Service, Natural Resources Canada, **Steve Strauss**, Oregon State University, USA, **Zander Myburg**, Forestry and Agricultural Biotechnology Institute, University of Pretoria, South Africa, and **Hely Häggman**, University of University of Oulu, Finland*

	14:00–14:25 Introduction to ERA and problem formulation **Wendy Craig**, *International Centre for Genetic Engineering and Biotechnology (ICGEB), Italy* 14:25–14:50 Fit for purpose environmental risk assessments: protection goals and assessment endpoints **Monica Garcia-Alonso,** *Estel Consult Ltd., UK* 14:50–15:15 Practical approaches to implementing ERA according to the Cartagena Protocol on Biosafety **Karen Hokanson**, *University of Minnesota, USA* 15:15–15:30 Q & A / panel discussion **Dennis Ndolo Obonyo**, **John Komen** (moderators)	**Section 1: Problem formulation for RNAi** 14:00–14:10 Introduction **Andrew F Roberts**, *Center for Environmental Risk Assessment, ILSI Research Foundation, USA* 14:10–14:30 Non-target organism testing, environmental fate and ecological risk assessment for an RNAi plant incorporated protectant **Pamela Bachmann**, *Monsanto Company, USA* 14:30–14:50 Biosafety considerations of RNAi-mediated virus resistance in fruit-tree cultivars and in rootstock **Godwin Nana Yaw Lemgo**, *NEPAD Agency – African Biosafety Network of Expertise (ABNE), Burkina Faso* **Section 2: Susceptibility of organisms to environmental RNA** 14:50–15:10 Differential response in non-target arthropods to dsRNA-mediated RNAi **Xuguo "Joe" Zhou**, *University of Kentucky, USA* 15:10–15:30 Evidence for uptake and function of plant-produced microRNAs in mammals **Victoria Vance**, *University of South Carolina, USA*	14:00–14:15 Research progress in genetic engineering of forest trees; where are we now? **Armand Séguin**, *Natural Resources Canada, Canada* 14:15–14:40 Biosafety of a yield-enhancing genetically modified eucalyptus **Eugenio Cesar Ulian**, *FuturaGene Ltd., Brazil* 14:40–15:05 Can genetically modified trees help address forest health challenges? The American chestnut biological and regulatory test case **Adam Costanza**, *Institute of Forest Biotechnology, North Carolina, USA* 15:05–15:30 Regulatory challenges of genetically engineered forest trees: Lessons from the European Union COST project **Hely Häggman**, *University of Oulu, Finland*
15:30–16:00	**COFFEE BREAK**		

	16:00–16:25 Problem formulation for an environmental risk assessment for the introduction of GE weevil-resistant sweetpotato in Uganda **Barbara Mugwanya Zawedde**, *Uganda Biosciences Information Center, National Crop Resources Research Institute, Uganda* 16:25–16:50 Regulatory aspects of environmental risk assessment – Case study of Africa crops **Moussa Savadogo**, *NEPAD African Biosafety Network of Expertise (ABNE), Burkina Faso* 16:50–17:15 Practical tools to address data requirements and uncertainty **Paul Keese**, *Office of the Gene Technology Regulator (OGTR), Australia* 17:15–17:30 Q & A / Panel discussion **Dennis Ndolo Obonyo**, **John Komen** (moderators)	16:00–16:20 Evaluating oral uptake and function of RNAi effectors in mammals **Ken Witwer**, *Johns Hopkins School of Medicine, USA* Section 3: ERA perspectives 16:20–16:40 International scientific workshop "Risk assessment considerations for RNAi-based GM plants" (4-5 June, Brussels) **Yann Devos**, *European Food Safety Authority (EFSA), Italy* **Section 4: Moderated panel discussion** 16:40–17:30 Panel discussion **Alan Gray** (moderator), *Center for Hydrology and Ecology, UK & President-elect International Society for Biosafety Research (ISBR)*	16:00–16:25 Regulation of genetically engineered forest trees in the United States **Pauline Spaine**, *USDA/APHIS, USA* 16:25–16:50 Stepping back: How can we improve regulatory reviews to promote innovative and safe uses of genetically modified (GM) trees? **Steven H Strauss**, *Oregon State University, USA* 16:50–17:30 Discussion **Cristina Vettori** (moderator), *Institute of Bioscience and Bioresources - CNR, Italy*
17:30–18:30	**Poster Session I**		
1	GRACE - A new European research project on GM crop risk assessment **Ralf Wilhelm**, *Julius Kühn Institute (JKI), Federal Research Centre for Cultivated Plants, Germany*		
2	A framework for a good review practice of existing evidence of potential impacts of genetically modified plants **Ralf Wilhelm**, *Julius Kühn Institute (JKI), Federal Research Centre for Cultivated Plants, Germany*		
5	Examples of data promoting the use of problem formulation to plan and scope risk assessments of GM combined trait stacks **Justin McDonald**, *Syngenta Crop Protection, USA*		
8	RFID tags used as an internal graft for the electronic tracking of plant material **Dave Pons**, Mangosuthu University of Technology, South Africa		
10	Field studies on assessing the effects of a genetically modified WYMV-resistant wheat on rhizosphere microbial communities **Zhenhua Zhang**, *Nanjing Institute of Environmental Sciences, China*		
12	Partnership for biosafety risk assessment and regulation: some reflections on the activities of the capacity building support program for Paraguay **Carmen Vicién**, *Center for Environmental Risk Assessment (CERA), Argentina*		

14	SABP contribution towards developing biosafety regulatory regimes in Bangladesh **M Imdadul Hoque**, *University of Dhaka, Bangladesh*
16	Detection methods data base **Taiwo Koyejo**, *CropLife International A.I.S.B.L., Belgium*
18	Biotechnological considerations for the Water Efficient Maize for Africa (WEMA) project in South Africa **Sneha Mary James**, *Agricultural Research Council-Grain Crops Institute, South Africa*
20	Proteomic analysis of herbicide tolerant transgenic maize (NK603) in response to drought stress **Rafael Fonseca Benevenuto**, *Federal University of Santa Catarina, Brazil*
22	Facilities readiness for containment studies of GM mosquitoes **M. Megan Quinlan**, *Imperial College London, UK*
24	Biotechnology and crop disease resistance in South Africa **Maryke Carstens**, *Genomics Research Institute (GRI), University of Pretoria, South Africa*
26	Environmental risk assessment workshop: non-target organism testing **Andrew Roberts**, *Center for Environmental Risk Assessment (CERA), USA*
28	An experimental system for assessing the toxicity of gut-active insecticidal compounds on green lacewings using *Chrysoperla sinica* as a surrogate species **Jörg Romeis**, *Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China & Agroscope, Institute for Sustainability Sciences ISS, Switzerland*
29	Protected field site for research with genetically modified plants **Jörg Romeis**, *Agroscope, Institute for Sustainability Sciences ISS, Switzerland*
31	Similarity of beneficial arthropod taxa in agroecosystems across geographies enables the transportability of Bt crop non-target arthropod field data across borders **David Carson**, *Monsanto Company, USA*
32	Assessment of phenotypic characteristics of inter-specific hybrids between wild soybean (*Glycine soja* Sieb. et Zucc) and cultivated soybean (*Glycine max* (L.) Merrill) with and without insect protected biotechnology trait **David Carson**, *Monsanto Company, USA*
34	Screening *Busseola fusca* populations for resistance to Bt maize events in South Africa **Elrine Huyser**, *School of Biological Sciences, North-West University, South Africa*
36	Comparative evaluation of bacterial diversity from GM and non-GM maize rhizosphere **Naseer Ahmad**, *Institute of Information Technology (CIIT), Pakistan*
38	Bt maize in South Africa: when is it field-evolved resistance? **Dishon Wayne Hiebner**, *School of Molecular and Cell Biology, University of the Witwatersrand, South Africa*
40	Microbial community structure of *Busseola fusca* (Lepidoptera: Noctuidae) **Maxi Snyman**, School of Biological Sciences, North-West University, South Africa

Tuesday, 11 November MORNING			
Plenary Session II: Advancing ERA - For Africa *Chairs: **Hector Quemada**, Donald Danforth Plant Science Center, USA, and **Kwabena Bosompem**, Noguchi Memorial Institute for Medical Research, University of Ghana, Ghana*			
09:00–09:10	Setting the context for the session: Advancing ERA – for Africa **Kwabena Bosompem**, *Noguchi Memorial Institute for Medical Research, University of Ghana, Ghana*		
09:10–09:50	**KEYNOTE** Building technological capability for controversial biotechnologies in Tanzania – A decision making perspective **Flora Ismail Tibazarwa**, *Tanzania Commission for Science and Technology, Tanzania*		
09:50–10:15	An overview of GMO research and development in Africa **Lawrence Kent**, *Bill & Melinda Gates Foundation, USA*		
10:15–10:45	**COFFEE BREAK**		
10:45–11:10	Challenges and solutions for implementing risk assessment and risk management at the research stage in Africa: The case of Uganda **Barbara Mugwanya Zawedde**, *National Agriculture Research Organization, Uganda*		
11:10–11:35	Environmental risk assessment and commercial release in Africa: challenges and solutions **Wadzanayi P Mandivenyi**, *National Department of Environmental Affairs, South Africa*		
11:35–12:00	Post-commercialization monitoring and product stewardship in Africa: challenges and solutions **Walter Alhassan**, *Biotechnology And Stewardship For Sustainable Agriculture In West Africa (BSSAW), Ghana*		
12:00–12:25	Panel discussion **Hector Quemada, Kwabena Bosompem** (moderators)		
12:25–14:00	**LUNCH**		
AFTERNOON			
14:00–17:30	**Parallel Session IV** **Risk Assessment Experiences and Capacity Building in Africa** *Organizers: **Karim Maredia**, Michigan State University, USA, and **Julius Ecuru**, Uganda National Council for Science and Technology, Uganda*	**Parallel Session V** **Quality of Scientific Studies Supporting the Non-target Risk Assessment of Transgenic Plants** *Organizers: **Yann Devos**, GMO Unit, European Food Safety Authority (EFSA), Italy, and **Jörg Romeis**, Agroscope, Institute for Sustainability Sciences ISS, Switzerland*	**Parallel Session VI** **Science Communication: A Global Perspective on Best Practice** *Organizers: **Kristina Sinemus**, Quadriga University, Germany, **Liezel Gouws**, Biosafety South Africa, South Africa, and **Hennie Groenewald**, Biosafety South Africa, South Africa*
	14:00–14:10 Introduction **Julius Ecuru**, *Uganda National Council for Science and Technology, Uganda*	**Section 1: Introduction** 14:00–14:05 Introduction **Yann Devos**, *European Food Safety Authority (EFSA), Italy*	14:00–14:10 Introduction **Henie Groenewald**, *Biosafety South Africa, South Africa*

	14:10–14:30 The ICGEB biosafety capacity building project for Sub-Saharan Africa: Experiences, challenges and lessons learnt over the last 5 years **Dennis Ndolo Obonyo**, *International Centre for Genetic Engineering and Biotechnology (ICGEB), South Africa* 14:30–14:50 Matching national biosafety regulatory norms with international best practices: The work of the Uganda national biosafety committee **Gilbert Gumisiriza**, *Uganda National Council for Science and Technology, Uganda* 14:50–15:10 Bt cowpea risk assessment experiences in Burkina Faso **Oumar Traore**, *Institut de l'Environnement et de Recherches Agricoles (INERA), Burkina Faso* 15:10–15:30 Practical human capital development – lessons from South African GMO introductions **Ben Durham**, *Department of Science and Technology, South Africa*	14:05–14:20 Steps to assure data quality from problem formulation through risk characterization **Raymond Layton**, *DuPont Pioneer, USA* **Section 2: Laboratory studies** 14:20–14:35 Good practices for the experimental design of laboratory studies **Jörg Romeis**, *Agroscope, Institute for Sustainability Sciences ISS, Switzerland* 14:35–14:50 An index for the critical appraisal of ecotoxicological laboratory studies supporting the environmental risk assessment of GM plants **Yann Devos**, *European Food Safety Authority (EFSA), Italy* **Section 3: Field studies** 14:50–15:05 Good practices for the experimental design of ERA-GMO field studies **Richard L Hellmich**, *USDA–ARS & Iowa State University, USA* 15:05–15:20 Appraisal criteria for the experimental design of field studies on non-target effects of GE crops **Michael Meissle**, *Agroscope, Institute for Sustainability Sciences ISS, Switzerland* 15:20–15:30 Q & A	14:10–14:25 Science communication – Countering GMO misinformation **Martin Lema**, *Ministry of Agriculture, Livestock and Fisheries, Argentina* 14:25–14:40 Risk communication – Tanzania/ Africa **Flora Ismail Tibazarwa**, *Tanzania Commission for Science and Technology, Tanzania* 14:40–14:55 Science & risk communication on GMOs in the EU- our experience **Kristina Sinemus**, *Quadriga University, Germany* 14:55–15:10 The importance of social media: Twitter 101 **Elizabeth Williams**, *Center for Environmental Risk Assessment, ILSI Research Foundation, USA* 15:10–15:30 General discussion **Kristina Sinemus[1], Henie Groenewald[2]**, *1 Quadriga University, Germany, 2 Biosafety South Africa, South Africa*
15:30–16:00	**COFFEE BREAK**		
	16:00–16:20 Risk assessment of GM crops – The Ghana experience **Yaa Osei**, *University of Ghana-Legon, Ghana*	**Section 4: Challenges** 16:00–16:15 Testing for synergism among multiple insecticidal proteins produced in stacked transgenic crop events **Gerson Graser**, *Syngenta Crop Protection, USA*	16:00–17:00 Interactive discussion and workshopping **Kristina Sinemus**, *Quadriga University, Germany*

	16:20–16:40 Challenges facing development and implementation of biosafety systems in Africa **Diran Makinde**, *NEPAD Agency African Biosafety Network of Expertise (ABNE), Burkina Faso* 16:40–17:00 Enhancing regulatory systems for science-based biosafety decision-making on genetically engineered crops in Africa **Samuel Timpo**, *NEPAD Agency African Biosafety Network of Expertise (ABNE), Burkina Faso & Michigan State University, USA* 17:00–17:30 Discussion **Karim Maredia** (moderator)	**Section 5: Perspective of risk assessors from the public and private sector** 16:15–16:30 Study quality and regulatory decision-making: evaluating ecotoxicological data supporting the non-target risk assessment of plant incorporated protectants (PIPs) **Pamela M Bachman**, *Monsanto Company, USA* 16:30–16:45 The Australian regulatory approach to quality appraisal of NTO studies **Alison Wardrop**, *Office of the Gene Technology Regulator, Australia* 16:45–17:00 European risk assessor perspective on the quality of *in vivo* bioassays **Adinda De Schrijver**, *Scientific Institute of Public Health, Belgium* **Section 6: Moderated panel discussion** 17:00–17:30 Panel discussion on appraisal criteria **Andrew Roberts** (moderator), *Center for Environmental Risk Assessment, ILSI Research Foundation, USA*	17:00–17:20 Reflection and analysis **Hennie Groenewald, Liezel Gouws, Kristina Sinemus** 17:00–17:30 Summary and conclusion **Hennie Groenewald, Liezel Gouws, Kristina Sinemus**
17:30–18:30	**POSTER SESSION II**		
3	An ERA method to evaluate potential adverse effects of genetically modified plants **Cristina Vettori**, *Institute of Bioscience and Biorisources – CNR, Italy*		
4	Potential impact of poplar plantations cultivated in proximity of protected areas **Cristina Vettori**, *Institute of Bioscience and Biorisources – CNR, Italy*		
6	Advisory service: risk assessment support **Lise Nordgård**, *GenØk – Centre for biosafety, Norway*		
7	Prevalence of specific natural variants of antibiotic resistance marker genes (ARM) used in GMOs (*nptII*) in soil in the northern part of Norway **Lise Nordgård**, *GenØk – Centre for biosafety, Norway*		
9	Nestle's GMO screeing tool to comply with legislations **Geoffrey Cottenet**, *Nestlé Research Center, Switzerland*		
11	The role of ABNE in building functional biosafety system in Nigeria **Olalekan Akinbo**, *African Biosafety Network of Expertise (ABNE), Nigeria*		

13	United States Department of Agriculture authorized confined field trials of genetically engineered trees **Christina Vieglais**, *United States Department of Agriculture, Animal and Plant Health Inspection Service, Biotechnology Regulatory Services, USA*
15	Comparative proteomic analysis of genetically modified maize grown under different agroecosystems conditions in Brazil **Odd-Gunnar Wikmark**, *GenØk - Centre for biosafety, Norway*
17	Environmental risk assessment for the introduction of GM-maize in Mexico **Sol Ortiz-García**, *Intersecretarial Commission of Biosafety and Genetically Modified Organisms (CIBIOGEM), Mexico*
19	Preliminary risk assessment of the transgenic plants use in Ukraine **Yaroslav B Blume**, *Institute of Food Biotechnology and Genomics, Natl. Academy of Sciences of Ukraine, Ukraine*
21	Evaluation of the crossability between small grains **Willem C Botes**, *Plant Breeding Laboratory, Department of Genetics, Stellenbosch University, South Africa*
23	Absence of a biosafety law, has it prevented the consumption of genetically modified foods in Nigeria? **Sylvia Uzochukwu**, *Federal University, Nigeria*
25	Assessment of the weediness Potential and preferred control methods of selected agricultural crops grown in Kaduna and Abuja, Nigeria for biosafety use **Ukpai Agha**, *University of Adelaide, Australia*
27	A critical assessment of the effect of Cry proteins on beneficial natural enemies **Richard L Hellmich**, *USDA-ARS, Corn Insects and Crop Genetics Research Unit, USA*
30	Establishing a test system for *Drosophila melanogaster* to assess the non-target effects of genetically engineered plants **Michael Meissle**, *Agroscope, Institute for Sustainability Sciences ISS, Switzerland*
33	Survival of *Busseola fusca* migrating between Bt and non-Bt maize plants: mimicking a seed mixture scenario **Jeanrè Rudman**, *School of Biological Sciences, North-West University, South Africa*
35	Evaluation of *Busseola fusca* and *Chilo partellus* survival on artificial diet compared to maize plant material **Mabel Du Toit**, *ARC-Grain Crops Institute, South Africa*
37	Impacts of the pollen of genetically modified maize (Bt) on the hygienic behavior of *Apis mellifera* L. **Leon Bizzocchi**, *Federal University of Santa Catarina, Brazil*
39	*Cytochrome c oxidase I* and *cytochrome b* mitochondrial genes indicate low genetic diversity of South African *Busseola fusca* (Lepidoptera: Noctuidae) **Bianca Peterson**, *Unit for Environmental Sciences and Development, North-West University, South Africa*
41	Defining protection goals for Malawi environmental risk assessment. The case for Bt cotton and Bt cowpea **Wezi Mkwaila**, *Lilongwe University of Agriculture and Natural Resources, Malawi*

Wednesday, 12 November MORNING			
07:45–08:45	**ISBR Member Meeting**		
09:00–12:30	**Parallel Session VII** **(Submitted presentations 1)** *Moderator:* ***Nora Eckermann****, Bayer CropScience, Germany;* ***Richard L Hellmich****, USDA–ARS & Iowa State University, USA*	**Parallel Session VIII** **(Submitted presentations 2)** *Moderator:* ***Patrick Rüdelsheim****, Perseus, Belgium****; Joachim Schiemann****, Julius Kühn Institute (JKI), Federal Research Centre for Cultivated Plants, Germany*	**Parallel Session IX** **(Submitted presentations 3)** *Moderator:* ***Wendy Craig****, International Centre for Genetic Engineering and Biotechnology (ICGEB), Italy*; ***Michael Wach****, Center for Environmental Risk Assessment, ILSI Research Foundation, USA*
	Target and non-target effects of GM plants; Disease-resistant GM plants	**Vertical gene flow, weediness and invasiveness; Varia**	**Risk assessment and regulatory considerations**
09:00–09:15	Potential use of an arthropod database to support the nontarget risk assessment and monitoring of transgenic plants **Michael Meissle**, *Agroscope, Institute for Sustainability Sciences ISS, Switzerland*	Relevance of crop biology for environmental risk assessment (ERA) of genetically modified crops in Africa **Olalekan Akinbo**, *NEPAD African Biosafety Network of Expertise, Nigeria*	Regulatory and biosafety considerations for plants developed through new breeding technologies **René Custers**, *VIB, Belgium*
09:15–09:30	Transportability of relevant laboratory and field data for the environmental risk assessment of genetically modified crops **David Carson**, M*onsanto Company, USA*	There is more to fitness than fecundity: Demographic analysis to evaluate genetically modified crops **Linda Hall**, *University of Alberta, Canada*	Development of construct based risk assessment criteria for GE crops **Clara Rubinstein**, *Monsanto Argentina, Argentina*
09:30–09:45	Development of a dietary toxicity assay for assess the potential effects of insecticidal proteins on the ladybird beetle *Propylea japonica* **Jörg Romeis**, *Agroscope, Institute for Sustainability Sciences ISS, Switzerland & Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China*	Sugarcane seed and seedling physiology: Knowledge to support environmental risk assessment for GM deployment **Johann S Pierre**, *CSIRO, Australia*	Environmental risk assessments for biotech crops in the EU **David Andres**, *Europabio, Belgium*
09:45–10:00	Target and non-target effects of a spider venom toxin (ω-Hexatoxin-Hv1a) produced in transgenic cotton and tobacco plants **Inaam Ullah**, *National Institute for Biotechnology and Genetic Engineering (NIBGE) & Pakistan Institute of Engineering and Applied Sciences (PIEAS), Pakistan & Agroscope, Institute for Sustainability Sciences ISS, Switzerland*	Regulatory compliance: Confined field trial of Africa biofortified sorghum in Kenya and Nigeria and impact of gene flow on the environment **Silas D Obukosia**, *Africa Harvest Biotechnology Foundation International*	South Asia biosafety programme: An initiative towards harmonization of regulatory requirements in India and Bangladesh **Vibha Ahuja**, *Biotech Consortium India Limited, India*

10:00–10:15	Generational effects of Cry1Ab released from Bt-corn straw on life-history traits of *Eisenia fetida* **Jianwu Wang**, *College of Agriculture, South China Agricultural University, China*	Assessing genetically engineered insect-resistant rice in China: Potential environmental impacts from transgene flow **Bao-Rong Lu**, *Ministry of Education Key Laboratory for Biodiversity Science and Ecological Engineering, Department of Ecology and Evolutionary Biology, Fudan University, China*	Genetically modified crops in developing countries: How past adoption history and regulatory challenges speak to Africa today **Woldeyesus Sinebo**, *NEPAD Agency African Biosafety Network of Expertise, Uganda*
10:15–10:30	Field evaluations of maize expressing RNAi-based insect protected trait on non-target organisms **Wladecir Oliveira**, *Monsanto do Brasil Ltda., Brazil*	*Brassica napus* culture and potential hybridization with *Sinapis arvensis* **Cristina Vettori**, *Institute of Bioscience and Bioresources - CNR, UOS FI, Italy*	Challenges against environmental risk assessment of genetically modified organisms in Nigeria **Abiodun A Denloye**, *Department of Zoology and Environmental Biology, Lagos State University, Nigeria*
10:30–11:00	**COFFEE BREAK**		
11:00–11:15	Post Marked Field Monitoring and evolution of occurrence of *Spodoptera frugiperda* (Smith) (Lepidoptera: Noctuidae) in Bt maize in Brazil **Fernando H Valicente**, *Embrapa Milho e Sorgo, Brazil*	Pollen-mediated gene flow from genetically modified wheat plants **Dmitry Miroshnichenko**, *'Biotron', Branch of Institute of Bioorganic Chemistry RAS, Russia*	Status of biosafety regulation in Nigeria **Chinyere Nzeduru**, *Biosafety Unit, Federal Ministry of Environment, Nigeria*
11:15–11:30	Biological safety assessment of a novel antifungal protein, mASAL the mutant variant of *Allium sativum* leaf agglutinin (ASAL) **Sampa Das**, *Bose Institute, India*	Risk assessment of a novel aquatic animal for commercial production in Canada **Colin McGowan**, *Department of Fisheries and Oceans, Canada*	Ghana's progress on developing a practical and useful biosafety communication strategy **Eric Amaning Okoree**, *Ministry of Environment, Science, Technology and Innovation (MESTI), Ghana*
11:30–11:45	Potatoes with late blight resistance: Risk assessment for R-proteins **Susan Collinge**, *J.R. Simplot Co., USA*	Lack of transparency on environmental risks assessment of genetically engineered crops before their commercial release **Borys Sorochynskyi**, *"Ukrainian Club of Agrarian Business" Association, Ukraine*	European-African interactions for the assessment and application of GM crops **Ksenia Gerasimova**, *University of Cambridge, UK*
11:45–12:00	Assessing the impact of genetically modified plants on the environment using NGS; A case study on transgenic grapevine rootstocks expressing viral coat protein and bacterial *NPTII* transgenes **Sandrine Demanèche**, *Ecole Centrale de Lyon, UMR CNRS 5005 Laboratoire Ampère, 'Génomique*	Stakeholder scrutiny of GMO toxicity studies ***Armin* Spoek**, *IFZ-Inter-University Research Centre for Technology, Work and Culture, Alpen-Adria Universitaet Klagenfurt- Wien-Graz, Austria*	Perception and trust regarding genetically modified cassava in Nigeria **Hajara Oyiza Yusuf**, *Biosafety Unit: National Biotechnology Development Agency (NABDA), Nigeria*

	Microbienne Environnementale', France		
12:00–12:15	Cost analysis of producing a transgenic late blight resistant potato variety by non-profit institution reveals much lower cost than that of the private sector **Marc Ghislain**, *Sub-Saharan Africa regional office, International Potato Center, Kenya*	Challenges with uncertainty in biosafety decisions **Anne Ingeborg Myhr**, *GenØk – Centre for Biosafety, Norway*	Biosafety capacity building in Africa: Experiences of Michigan State University **Cholani K Weebadde**, *Michigan State University, USA*
12:15–12:30			Socioeconomic considerations in risk assessment of GE crops in developing countries **Dilrukshi Hashini Galhena Dissanayake**, *Michigan State University, USA*
12:30–14:00	**LUNCH**		
AFTERNOON			
from 14:00	**SOCIAL PROGRAM**		

Thursday, 13 November MORNING			
	Plenary Session III: Advancing ERA – A Global Perspective *Chairs: **Morven McLean**, Center for Environmental Risk Assessment, ILSI Research Foundation, USA, and **Monica Garcia-Alonso**, Estel Consult Ltd., UK*		
09:00–09:10	Setting the context for the session **Morven McLean**, *Center for Environmental Risk Assessment, ILSI Research Foundation, USA*		
09:10–09:50	**KEYNOTE** Feeding 10 billion people sustainably and equitably **H Charles J Godfray**, *Oxford University, UK*		
09:50–10:15	Transportability of confined field trial data for environmental risk assessment of genetically engineered plants: A conceptual framework **Monica Garcia-Alonso**, *Estel Consult Ltd., UK*		
10:15–10:45	**COFFEE BREAK**		
10:45–11:10	Progress and challenges for implementation of the common market for Eastern and Southern Africa (COMESA) policy on biotechnology and biosafety **Michael Waithaka**, *Association for Strengthening Agricultural Research in Eastern and Central Africa, Uganda*		
11:10–11:35	Under the Cartagena Protocol, where is the roadmap for risk assessment of living modified organisms taking us? **Helmut Gaugitsch**, *Environment Agency Austria, Austria*		
11:35–12:00	Making protection goals operational for use in environmental risk assessments – an EFSA perspective **Yann Devos**, *European Food Safety Authority (EFSA), Italy*		
12:00–12:25	Panel Discussion **Morven McLean** (moderator)		
12:25–14:00	**LUNCH**		
AFTERNOON			
14:00–17:00	**Parallel Session X** **Evidence Synthesis: A New Tool Informing the Impact Assessment of GMOs** *Organizers: **Joachim Schiemann**, Julius Kühn Institute (JKI), Federal Research Centre for Cultivated Plants, Germany, and **Neal Haddaway**, Bangor University, UK*	**Parallel Session XI** **The Design and Implementation of IRM Programs for GM Crops** *Organizers: **Graham Head**, Monsanto Company, USA, **Johnnie van den Berg**, North West University, South Africa, and **Richard L Hellmich**, USDA–ARS & Iowa State University, USA*	**Parallel Session XII** **Capturing and Addressing Public Input to Biosafety Decisions: Realities and Useful Experiences** *Organizers: **M Megan Quinlan**, Imperial College London, UK, and **Joe Smith**, former Gene Technology Regulator, Australia*
	14:00–14:05 Introduction **Joachim Schiemann**, *Julius Kühn Institute (JKI), Federal Research Centre for Cultivated Plants, Germany*	14:00–14:10 Introduction ***Johnnie van den Berg***	14:00–14:10 Introduction: Who is the public? Why are we asking for input? **M Megan Quinlan**, *Imperial College London, UK*

	14:05–14:25 An introduction to evidence synthesis approaches and their suitability in solving specific problems **Neal Haddaway**, *Bangor University, UK* 14:25–15:05 Evidence synthesis and its capability to inform evidence-based decision making processes **Neal Haddaway**, *Bangor University, UK* 15:05–15:30 Evidence synthesis: The GRACE approach **Ralf Wilhelm**, *Julius Kühn Institute, Federal Research Centre for Cultivated Plants, Germany*	14:10–14:30 Applications of new insights on *Bacillus thuringiensis* toxin mode of action to resistance management **David G Heckel**, *Max Planck Institute for Chemical Ecology, Germany* 14:30–14:50 Increasing levels of resistance in weed and pests – what can be learned from the use of antibiotics in medicine **Ørjan Olsvik**, *University of Tromsø and GenØk – Centre for Biosafety, Norway* 14:50–15:10 Designing and implementing IRM programs for Bt crops **Graham Head**, *Monsanto Company, USA* 15:10–15:30 Experiences with Bt crop IRM in the United States **Richard L Hellmich**, *USDA-ARS and Iowa State University, USA*	14:10–14:30 Efficient methods for collecting and classifying public input to biosafety decisions **Louise Ball**, *Department for Environment Food & Rural Affairs, UK* 14:30–14:50 Making decisions in the face of external influences to public input **Ma Lorelie U Agbagala**, *Bureau of Plant Industry-Plant Quarantine Service, Philippines* 14:50–15:10 The value and effectiveness of risk communication in biosafety decision-making: an industry perspective **Raymond Layton**, *DuPont Pioneer, USA* 15:10–15:30 Acknowledging public input – the importance of a systemic approach to both technical issues and social values **Paul Keese**, *Office of the Gene Technology Regulator, Australia*
15:30–16:00	**COFFEE BREAK**		
	16:00–16:20 Systematic reviews and evidence synthesis of environmental impacts of GM plants in the GRACE project **Jeremy Sweet**, *Sweet Environmental Consultants, UK* 16:20–16:45 An introduction to “CADIMA” and online tools developed to support evidence synthesis **Stefan Unger**, *Julius Kühn Institute, Federal Research Centre for Cultivated Plants, Germany*	16:00–16:20 African maize stem borer resistance to Bt corn in South Africa: Implications for IRM in Africa **Johnnie van den Berg**, *North West University, South Africa* 16:20–16:40 Challenges for the design and implementation of IRM and stewardship programs within public-private partnerships **James A Okeno**, *African Agricultural Technology Foundation (AATF), Kenya*	16:00–16:20 Public Input into US biotechnology regulatory decisions **Kham Vongpaseuth**, *United States Department of Agriculture, Animal and Plant Health Inspection Service, USA* 16:20–16:55 Discussion **Joe Smith** (moderator)

	16:45–17:00 Discussion **Joachim Schiemann** (moderator)	16:40–17:00 Stewardship programs for Bt crops in Africa **Kulani Machaba**, *DuPont Pioneer, South Africa*	16:55–17:00 Conclusions **M Megan Quinlan**
17:00–17:30	**ISBGMO13 CLOSING SESSION**		