



# 10<sup>TH</sup> ANNUAL NATIONAL BIOSAFETY CONFERENCE

Theme "A Decade of Biosafety Regulatory Excellence:  
Experiences and Lessons"

**Organized by**



**NATIONAL BIOSAFETY AUTHORITY**  
*Championing for a Biosafe Nation*



**AUDA-NEPAD**  
AFRICAN UNION DEVELOPMENT AGENCY



**PRE-CONFERENCE WORKSHOP ON EMERGING TRENDS IN BIOTECHNOLOGY AND BIOSAFETY REGULATION ON 2<sup>ND</sup> – 3<sup>RD</sup> NOVEMBER 2021 1:30- 5:00 PM**

**(EAT)**

**Host: National Biosafety Authority**

**Zoom link: To be shared later**

**Workshop Programme**

<b>Day one: 2<sup>nd</sup> November 2021</b>		
<b>Session Chair: TBD</b>		
<b>Time</b>	<b>Topic</b>	<b>Responsible</b>
1.30-1.50pm	Welcome Remarks and Workshop Objectives	Prof. Dorington Ogoyi, National Biosafety Authority
<b>Session I: Management of Low Level Presence (LLP) and Adventitious Presence (AP) situations in Seed, Grain and derived products</b>		
1.50-2.10pm	Introduction to Low Level Presence and Adventitious Presence in Seed, Grain and derived products	Mr. Abed Mathagu, African Agricultural Technology Foundation (AATF)
2.10-2.30pm	Case studies from selected countries on handling of Low Level Presence and Adventitious Presence situations	Dr. Szabolcs Ruthner, International Seed Federation (ISF)
2.30-2.50pm	Industry perspective and policy considerations in LLP and AP situations	Ms. Chantel Arendse, Croplife, South Africa
2.50--3.10pm	Kenya's proposed regulation of LLP and AP situations in in Seed, Grain and derived products	Ann Muia, National Biosafety Authority
3.10-3.30pm	Discussions of Session 1	All
3.30-3.40pm	<b>BREAK</b>	
<b>Session II: Post commercialization monitoring of GM crops</b>		
3.40-4.00pm	Monitoring of commercialized GM crops in South Africa: experiences and lessons learnt	Dr. Ben Durham, National Department of Science and Innovation, South Africa
4.00- 4.20pm	Case studies from select countries in Post commercialization monitoring approaches of GM crops	Dr. Gabriela Levitus, ArgentinaBio
4.20-4.40pm	Kenya's guidelines on the post release monitoring of GM crops	Josphat Muchiri, National Biosafety Authority
4.40- 5.00pm	Discussions of Session 2 Group photo	All
<b>End of Day 1</b>		

**Rapporteurs: NBA**



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**Day two: 3<sup>rd</sup> November 2021**

Session Chair: TBD

**Session III: Regulation of Stack Gene Events**

<b>Time</b>	<b>Topic</b>	<b>Responsible</b>
1.40-2.00pm	Introduction to gene stacking, rationale and applications	Dr. Marc Heijde, VIP IPBO, Ghent University
2.20-2.40pm	Regulation of gene stacks in Kenya	Julia Njagi, National Biosafety Authority
2.40-3.00 pm	Discussions of Session 4	
<b>Panel discussion on country experiences on Gene stacking Moderated by: TBD</b>		
3.00-4.10p.m.	Country experiences on regulation of stacked gene events;  Latin, North Americas, Asia (10 minutes)  Europe (10 minutes)  African Countries (10 minutes)	Dr. Abby Simmons, Croplife International  Prof. Joachim Schiemann Julius Kühn Institute  Mr. Samuel Timpo, African Union Development Agency- NEPAD
4.10-4.25 pm	Pre-conference workshop evaluation (online)	National Biosafety Authority
4.25-4.40pm	Closing remarks	Prof. Dorington Ogoyi, National Biosafety Authority

**END OF PRE-CONFERENCE WORKSHOP**

# 10<sup>TH</sup> ANNUAL BIOSAFETY CONFERENCE, NAIROBI, KENYA

## Conference Program

Dates: 4-5<sup>th</sup> November 2021

Host: National Biosafety Authority

Zoom link: To be shared later

Day one: 4 <sup>th</sup> November 2021		
Session 1: Opening Ceremony		
Moderator: Dr. Roy B. Mugiira, National Biosafety Authority		
Time	Topic	Responsible
9.00-10.15am	<b>Welcome Remarks</b>  <b>Keynote Address: "Biosafety evolution in Kenya and Africa"</b>  <b>Opening Address</b>	Prof. Dorington Ogoyi, CEO, National Biosafety Authority  Dr. Jeremy Ouedraogo, Head, African Union Development Agency- NEPAD  Dr. Joseph Chavutia, Chair, National Biosafety Authority Board  <b>Chief Guest:</b> Prof. George Magoha, Cabinet Secretary, Ministry of Education
<b>10.15-10.45am</b>	<b>Group photo and Tea Break</b>	
Session II: Science, Technology & Innovation Agenda; and Biosafety regulatory frameworks in Kenya		
Chair of session: TBD		
10.45-11.00am	The Biosafety Regulatory Framework in Kenya	Dr. Roy Mugiira, National Biosafety Authority
11.00-11.15am	Role of NACOSTI in the STI Agenda; Biosciences and Biotechnology	Prof. Walter Oyawa, National Commission For Science, Technology & Innovation
11.15-11.30am	Funding biotechnology research in Kenya, Challenges and opportunities	Dr. Jemimah Onsare, National Research Fund
11.30-11.45am	Role of KENIA in technology innovations and dissemination	Dr. Tommy Omwansa, Kenya National Innovation Agency (KeNIA)
11.45-12.00pm	Interface between Biotechnology Event Approval and Crop Variety release and Registration- Africa	Dr. Silas Obukosia, African Union Development Agency- NEPAD



	Experience	
12.00-12.15pm	Kenya GM crops variety release and seed certification schemes	Prof. Theophilus Mutui, Kenya Plant Health Inspectorate Service
12.15-12.30pm	Role of DVS in management and control of animal diseases	Dr. Obadiah Njagi, Directorate of Veterinary Services
12.30-1.00pm	Discussions	All
1.00-2.00 pm	Lunch break	
<b>Session III: Advances in emerging technologies</b>		
<b>Chair of session: Doris Wangari, PBS Kenya</b>		
2.00-2.20pm	Global regulatory approaches in Genome editing: Special focus on African countries	Mr. John Komen, Program Biosafety Systems, Africa
2.20-2.40pm	Introduction and applications of Synthetic Biology	Prof. Paul Freemont, Imperial College, UK
2.40-3.00pm	Introduction to gene drives and its applications in management of malaria in Africa	Dr. Willy Kibet, Bioconsortium Africa Ltd
3.00-3.45pm	Best approaches to science communication of new and emerging biotechnologies	Dr. Margaret Karembu, MBS International Service for the Acquisition of Agri-biotech Applications (ISAAA AfriCenter)
3.45- 4.15 pm	General discussions	
<b>End of Day 1</b>		

**Rapporteurs:** NBA



**Day two: 5<sup>th</sup> November 2021**

**Session IV: Status of Biotechnology research projects in Kenya**

**Chair of session: Dr. Silas Obukosia**

<b>Time</b>	<b>Topic</b>	<b>Responsible</b>
9.00-9.15am	Status update of Bt maize project in Kenya	Dr. James Karanja, Kenya Agriculture and Livestock Research Organization (KALRO)
9.15-9.30am	Status update of genome edited contained use project (Yam/banana)	Dr. Leena Tripathi, International Institute of Tropical Agriculture (IITA)
9.30-9.45am	Status update of late blight resistance potato project	Dr. Marc Ghislain/ Dr. Eric Magembe International Potato Center (CIP)
9.45-10.00am	Status update of confined field trial of Rift Valley Fever Project	Dr. George Warimwe, ILRI
10.00-10.15am	Other abstract	(TBD)
10.15-10.30am	Other abstract	(TBD)
10.30-10.45am	Other abstract	(TBD)
10.45-11.00am	Discussions	
11.00 -11.20 am	<b>BREAK</b>	
<b>Session V: Progress and Roadmap to commercialization of GM cassava in Kenya</b>		
<b>Session Chair: TBD</b>		
11.20-12.45pm	Panelists; <ul style="list-style-type: none"><li>• Dr. Catherine Taracha (KALRO)</li><li>• Prof. Douglas Miano (UoN)</li><li>• NBA</li><li>• KEPHIS</li><li>• Cassava value chain expert</li><li>• Other (TBD)</li></ul>	Moderator: TBD
12.45-1.00pm	Discussions and Way Forward	All Participants
1.00-1.10pm	Conference Evaluation	National Biosafety Authority
1.10-1.30pm	Closing Remarks	Prof. Dorington Ogoyi, CEO, National Biosafety Authority
	Vote of Thanks	National Biosafety Authority Board member
<b>END OF CONFERENCE</b>		

**Rapporteurs: NBA**



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