

# 9<sup>th</sup> ANNUAL NATIONAL BIOSAFETY CONFERENCE

Organized by



**NATIONAL BIOSAFETY AUTHORITY,  
NAIROBI, KENYA**

*Theme: “Functional Biosafety Systems towards  
Commercialization of Agricultural Biotechnologies for  
Economic Development in Kenya”*

**10-13<sup>th</sup> November, 2020.**

**Conference Program**



## VIRTUAL WORKSHOP ON GENOME EDITING TECHNOLOGIES IN KENYA

**Date: 10-11<sup>th</sup> November 2020**

**Host: National Biosafety Authority**

### Programme

<b>Day 1: 10<sup>th</sup> November 2020</b>		
<b>Time</b>	<b>Description</b>	<b>Responsible</b>
1.30-1.50p.m	Welcome Remarks and Workshop Objectives	Prof. Dorington Ogoyi, CEO NBA
<b>Session I: General Introduction to Genome Editing</b>		
1.50-2.10pm	Introduction to fundamentals of Genome Editing techniques and ongoing researches	Dr. Leena Tripathi, IITA
2.10-2.30pm	Genome Editing Technology case study “Management of Maize Lethal Necrosis Disease (MLND)”	Dr. Stephen Mugo, MLND Project
2.30-2.50pm	Genome Editing Applications in Animals	Dr. Alison Van Eenennaam, University of California
2.50-3.10pm	What are the Policy Considerations pertaining to Genome Edited Products Globally?	Maria Fedorova, Corteva
3.10-3.30pm	Perspectives on Regulation of Genome Editing in Africa - “experiences in Nigeria, Mozambique and eSwatini”	Dr. Silas Obukosia, AUDA
3.30-3.50pm	Proposed Regulatory Framework for Genome Editing in Kenya	Prof. Theophilus Mutui, NBA
3.50-4.20pm	Discussions of Session 1	
<b>Session II: Genome editing vs other emerging technologies</b>		
4.20-4.40p.m.	Applications of Gene Drives in Mosquito Control	Dr. Dan Masiga, ICIPE
4.40-5.00pm	Synthetic biology	Prof. Paul Freemont, Imperial College, UK
5.00-5.30 p.m.	Discussions of Session 2	
<b>End of Day 1</b>		

## Genome editing Technologies Workshop in Kenya

Day 2: 11 <sup>th</sup> November 2020		
Session III: Communication and Public Acceptance of Emerging Technologies		
Time	Description	Responsible
1.30-2.00pm	Proposed Approaches in Communicating Genome Edited Applications and other Emerging Technologies	Sam Timpo, AUDA ,
2.00-2.20p.m	Discussions of Session 3	
Session IV: Curriculum Reviews in Universities and Tertiary Institutions on Emerging Technologies		
2.20-2.50p.m	Curriculum Adjustments in view of Emerging Technologies	Prof. Douglas Miano
2.50-3.10 p.m	Discussions of Session 4	
Session V: Panel discussion on Global Perspectives on Genome Editing and other Emerging Technologies		
Moderated by: TBD		
3.10-4.20p.m.	Emerging Gene Technologies Discussions in Multilateral Fora;	
	African Countries	Dr. Olalekan Akinbo
	Europe	Dr Dennis Eriksson
	Asia Counties- India	Dr. Rashmi S. Nair
	South America- Argentina	Dr. Martin Lema
	North America/USA	Dr. John McMurdy
4.20-4.50p.m.	General Discussions and Way Forward	
4.50-5.00pm	Closing remarks	Prof. Dorington Ogoyi, CEO NBA
End of Workshop		

**Rapporteurs:** Josphat Muchiri, Dr. Martin Bundi



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

## Conference Session

**Dates: 12-13<sup>th</sup> November 2020**

**Host: National Biosafety Authority**

<b>Day 1: 12<sup>th</sup> November 2020; Opening Session</b>		
<b>Time</b>	<b>Session</b>	<b>Responsible</b>
1.30-2.20p.m	<b>Welcome Remarks</b>  <b>Keynote Address: “Applications of Genome Editing Technology towards Management of Striga in Sorghum”</b>  <b>Opening Address</b>	Prof. Dorington Ogoyi, CEO, NBA  Prof. Steven Runo, KU  <b>Chief Guest: PS,SDUE&amp;R, Ministry of Education</b>
<b>Session I: Biosafety Regulatory Frameworks in Kenya</b>		
2.20-2.50p.m	Biosafety Regulatory Framework in Kenya	Prof. Theophilus Mutui, NBA
<b>Session II: Advances in Genome Editing Research and Regulation</b>		
2.50-3.20p.m	Proposed Guidelines on Regulation of genome editing technologies in Kenya	Josphat Muchiri, NBA
3.20-3.50pm	Regulatory Approaches to Genome Editing - Global Perspectives	John Komen, PBS
3.50- 4.20p.m	Discussions for Session I and II	
<b>Session III: Biotechnology and Biosafety Communication</b>		
4.20-4.50 p.m.	Past, Present and the Future of Biotech and Biosafety Communications	Dr. Margaret Karembu, ISAAA
4.50-5.30pm	<b>Discussions</b>	
<b>End of Day 1</b>		

**Conference Session**  
**12-13<sup>th</sup> November 2020**

<b>Day 2: 13<sup>th</sup> November 2020</b>		
<b>Session IV: Biotechnology and Biosafety Research in Kenya</b>		
<b>Time</b>	<b>Session</b>	<b>Responsible</b>
9.00-9.30am	TELA Maize Project in Kenya	Dr. James Karanja, KALRO
9.30-10.00a.m	Virus Resistant Cassava in Kenya	Dr. Catherine Taracha, KALRO
10.00-10.30am	Animal Biotechnology, Vaccines Development for Rift Valley Fever control	Prof. Stephen Kemp, ILRI
10.30-11.00am	Application of Genome editing in management of diseases and nutritional enhancement in Yam and Banana contained use projects	Dr. Leena Tripathi, IITA
<b>Session V: Commercialization of GM Products and their role in Economic Development</b>		
11.00-11.20am	India Experience with Bt-cotton	Prof. C. D. Mayee, SABC
11.20-11.40am	Progress towards commercialization of Bt Cotton in Kenya	Darlington Mutetwa, Mahyco
11.40-12.15pm	Discussions and Way Forward	All Participants
12.15-12.30pm	Closing Remarks	Prof. Dorington Ogoyi, CEO, NBA
	Vote of Thanks	NBA Board Member Representing Ministry of Agriculture, Livestock, Fisheries and Cooperatives
<b>End</b>		

**Rapporteurs:** Julia Njagi, Nehemiah Ngetich