9TH ANNUAL NATIONAL BIOSAFETY CONFERENCE

10th – 13th November 2020

Theme: "Functional Biosafety Systems towards Commercialization of Agricultural Biotechnologies for Economic Development in Kenya"

PROGRAMME

Organised by

NATIONAL BIOSAFETY AUTHORITY

Championing for a Biosafe Nation

9th NATIONAL BIOSAFETY CONFERENCE

10th – 13th November 2020

SPONSORS

National Biosafety Authority

Genome Editing Workshop Speakers

Day 1: 10th November 2020

Prof. Dorington Ogoyi, CEO NBA

Dr. Leena Tripathi, IITA

Dr. Stephen Mugo, MLND Project

Dr. Alison Van Eenennaam, University of California

Dr. Maria Fedorova, Corteva

Dr. Dan Masiga, ICIPE

Prof. Theophilus Mutui, NBA

Dr. Silas Obukosia, AUDA

Prof. Paul Freemont, Imperial College, UK

Genome Editing Workshop Speakers

Day 2: 11th November 2020

Mr. Sam Timpo, AUDA

Prof. Douglas Miano

Dr. Olalekan Akinbo

Mr. Justin Rakotoarisaona

Dr. Rashmi S. Nair

Dr. Martin Lema

Dr. Fan Li Chou

WORKSHOP ON GENOME EDITING TECHNOLOGIES IN KENYA

Date: 10-11th November 2020

Host: National Biosafety Authority

Genome Editing Workshop Programme

Day 1: 10th November 2020		
Time	**Description**	**Responsible**
1.30-1.50p.m	Welcome Remarks and Workshop Objectives	Prof. Dorington Ogoyi, CEO NBA
Session I: General Introduction to Genome Editing; (Chairperson: Margaret Njuguna)		
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?	Dr. 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	
4.20-4.30pm	**BREAK**	
Session II: Genome editing vs other emerging technologies : (Chair; Mr Josphat Muchiri)		
4.30-4.50p.m.	Applications of Gene Drives in Mosquito Control	Dr. Dan Masiga, ICIPE
4.50-5.10pm	Synthetic biology	Prof. Paul Freemont, Imperial College, UK
5.10-5.30 p.m.	Role of AFSTA in Applications of Genome editing and Emerging Biotechnologies	Mr. Justin Rakotoarisaona, Secretary General, AFSTA
5.30-5.45 p.m.	Discussions of Session 2	
End of Day 1		

Rappoteurs: Josphat Muchiri, Dr. Martin Bundi - NBA

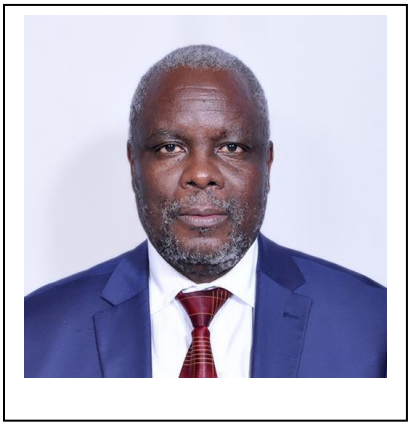
Day 2: 11th November 2020		
Session III: Communication and Public Acceptance of Emerging Technologies : Moderator: Prof Theophilus Mutui		
Time	Description	Responsible
1.30-2.00pm	Proposed Approaches in Communicating Genome Edited Applications and other Emerging Technologies	Mr. Sam Timpo, AUDA ,
2.00-2.20p.m	Discussions of Session 3	
Session IV: Curriculum Reviews in Universities and Tertiary Institutions on Emerging Technologies. Moderator: Prof Theophilus Mutui		
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: Moderator: Prof Theophilus Mutui		
3.10-4.20p.m.	Emerging Gene Technologies Discussions in Multilateral Fora; African Countries Europe Asia Counties- India South America- Argentina North America/USA	 Dr. Olalekan Akinbo TBD Dr. Rashmi S. Nair Dr. Martin Lema Dr. Fan Li Chou
4.20-4.50p.m.	General Discussions and Way Forward	
4.50-5.00pm	Closing remarks	Prof. Dorington Ogoyi, CEO NBA
End of Workshop		

Rappoteurs: Josphat Muchiri, Dr. Martin Bundi - NBA

Main Conference Speakers

Day 1: 12th November 2020

Amb. Simon Nabukwesi
PS, SDUE&R, Ministry of Education



Prof. Dorington Ogoyi, CEO, NBA

Prof. Steven Runo, KU

Prof. Theophilus Mutui, NBA

Mr. Josphat Muchiri, NBA

Dr. John Komen, PBS

Dr. Margaret Karembu, ISAAA

Main Conference Speakers

Day 2: 13th November 2020

Dr. James Karanja, KALRO

Dr. Catherine Taracha, KALRO

Prof. Paul Ntahanio

Dr. Leena Tripathi, IITA

Prof. C. D. Mayee, SABC

Darlington Mutetwa, Mahyco

9TH ANNUAL BIOSAFETY CONFERENCE, NAIROBI, KENYA

Main Conference Program

Dates: 12-13th November 2020

Host: National Biosafety Authority

Day 1: 12th November 2020; Opening Session		
Time	**Session**	**Responsible** **MC: Prof. Theophilus Mutui**
1.30-2.20p.m	**Welcome Remarks** **Keynote Address: "Applications of Genome Editing Technology towards Management of Striga in Sorghum"** **Opening Address**	Prof. Dorington Ogoyi, CEO, NBA Prof. Steven Runo, KU **Chief Guest:** PS,SDUE&R, Ministry of Education
Session I: Biosafety Regulatory Frameworks in Kenya (Chairperson: Prof Douglas Miano)		
2.20-2.50p.m	Biosafety Regulatory Framework in Kenya	Prof. Theophilus Mutui, NBA
Session II: Advances in Genome Editing Research and Regulation (Chairperson: Prof Douglas Miano)		
2.50-3.20p.m	Proposed Guidelines on Regulation of genome editing technologies in Kenya	Mr. Josphat Muchiri, NBA
3.20-3.30pm	**BREAK**	
3.30-4.00pm	Regulatory Approaches to Genome Editing - Global Perspectives	Dr. John Komen, PBS
4.00- 4.30 pm	Discussions for Session I and II	
Session III: Biotechnology and Biosafety Communication (Chairperson: Prof Douglas Miano)		
4.30-5.00 p.m.	Past, Present and the Future of Biotech and Biosafety Communications	Dr. Margaret Karembu, ISAAA
5.00-5.40pm	**Discussions**	
End of Day 1		

Rapporteurs: Julia Njagi, Nehemiah Ngetich - NBA

Day 2: 13th November 2020		
Session IV: Biotechnology and Biosafety Research in Kenya (Chairperson: Ms. Doris Wangari)		
Time	**Session**	**Responsible**
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	Integrated Approach to Produce Super Yielding Basmati 370 Hybrid Rice Seeds for Farmers	Prof. Paul Njiruh Nthakanio, Embu University
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
11.00 -11.10 am	**BREAK**	
Session V: Commercialization of GM Products and their role in Economic Development (Chairperson: Dr. Roy Mugiira)		
11.10-11.30am	India Experience with Bt-cotton	Prof. C. D. Mayee, SABC
11.30-11.50am	Progress towards commercialization of Bt Cotton in Kenya	Mr. Darlington Mutetwa, Mahyco
11.50-12.25pm	Discussions and Way Forward	All Participants
12.25-12.40pm	Closing Remarks	Prof. Dorington Ogoyi, CEO, NBA
	Vote of Thanks	NBA Board Member Representing Ministry of Agriculture, Livestock. Fisheries and Cooperatives
End		

Rapporteurs: Julia Njagi, Nehemiah Ngetich - NBA

NATIONAL BIOSAFETY AUTHORITY

Presents

LIVE WEBINAR

9TH ANNUAL BIOSAFETY CONFERENCE

Theme: "Functional Biosafety Systems towards Commercialization of Agricultural Biotechnologies for Economic Development in Kenya"

The National Biosafety Authority (NBA) is a state corporation in Kenya mandated to ensure the safety of human and animal health and provide adequate protection of the environment from harmful effects that may result from genetically modified organisms (GMOs).

The objective of this Conference is to provide a forum for engaging stakeholders on strengthening Biosafety Systems towards commercialization of GMOs for economic development in Kenya. The target participants are the developers, relevant government agencies, policymakers, academia, NGOs, industry and the general public.

Members of the public are hereby invited to participate

Workshop On Genome Editing Technologies in Kenya	Annual Biosafety Conference
Date: 10-11th November 2020	**Dates:** 12-13th November 2020
Time: 1.30-5.30 pm	**Time:** 9.00 am – 1.30 pm

The official opening will be done by the Chief Guest, Amb. Simon Nabukwesi, Principal Secretary for University Education and Research, Ministry of Education on 12th November 2020 at 1.30 pm

SPEAKERS

Amb. Simon Nabukwesi,
Principal Secretary,
State Department of University Education and Research
CHIEF GUEST

Prof. Dorington Ogoyi,
Chief Executive Officer
National Biosafety Authority
HOST

Prof. Steven Runo,
Kenyatta University
KEYNOTE SPEAKER

Prof. Theophilus Mutui,
Acting Director, Technical Services, NBA
MODERATOR

Please register and participate via the link below:

Workshop On Genome Editing Technologies in Kenya
https://bit.ly/3oOa9k1

Annual Biosafety Conference
shorturl.at/owA35

AUDA-NEPAD AFRICAN UNION DEVELOPMENT AGENCY · AFSTA · CORTEVA agriscience · BAYER · CIMMYT International Maize and Wheat Improvement Center · plant B+B · VIB International Plant Biotechnology Outreach

NATIONAL BIOSAFETY AUTHORITY

Championing for a Biosafe Nation

VISION STATEMENT

A World-class Biosafety Agency.

MISSION STATEMENT

To ensure and assure safe development, transfer, handling and use of genetically modified organisms (GMOs) in Kenya.

CORE VALUES

Integrity
Professionalism
Transparency
Accountability

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NAIROBI.
Tel: +254 202678667 or 0713 854132
Email: info@biosafetykenya.go.ke
Website: www.biosafetykenya.go.ke

Biosafety Kenya

@Biosafetykenya

9th NATIONAL BIOSAFETY CONFERENCE

10th – 13th November 2020

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CIMMYT
International Maize and Wheat Improvement Center

CORTEVA
agriscience

AFSTA
The African Seed Trade Association
L'Association Africaine du Commerce des Semences

plant B+B

VIB | International Plant Biotechnology Outreach

plant B+B VIB International Plant Biotechnology Outreach CORTEVA agriscience CIMMYT International Maize and Wheat Improvement Center BAYER AFSTA AUDA-NEPAD AFRICAN UNION DEVELOPMENT AGENCY