

IFE BIOTECHNOLOGYGROUP[IBG]



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DRAFT PROGRAMME

2ND SOUTHWEST AGROECOLOGICAL BIOSAFETY AWARENESS TOWARDS COMMERCIALIZATION OF GMO RELEASE IN NIGERIA IN COLLABORATION WITH THE NATIONAL BIOSAFETY MANAGEMENT AGENCY

PROPOSED THEME: Addressing Challenges of Biosafety Management and GMO Issues in Collaboration with the National Biosafety Management Agency (NBMA)

Proposed Date: 18 - 22 September, 2017

Proposed Venue: RECTAS/Ajose Lecture Theatre, OAU, Ile-Ife

Programme Coordinators:

- Prof. B. O. Solomon (Chairman)
- Prof O.A. Akinyemiju
- Dr. E.M.Obuotor
- Dr. J.T. Opabode
- Dr. A.S. Oladejo (Secretary)
- Dr. (Mrs.) E F Aransiola
- Dr. B.J. Taiwo
- Dr.(Mrs.) N.Torimiro
- Dr. (Mrs.) A.O. Bolaji
- Mr. F. Ehinmitola

Host: Prof.D. J. Oyedele, Dean of Agriculture
Obafemi Awolowo University, Ile -Ife

Chief Host: Prof.Eyitope O. Ogunbodede, Vice Chancellor,
Obafemi Awolowo University, Ile -Ife

Royal Father of the Day: **His Imperial Majesty**, Oba Dr. BabatundeAdeyeyeEnitanOgunwusi,
Ojaja II, Ooni of Ife

Special Guest of Honour: Dr Ogbonnaya Onu,
Honourable Minister of Science and Technology, Abuja.

Day 1 - 3: Pre-workshop Hands-on Training on Molecular Techniques

SCOPE OF THE TRAINING

Advances in genetic engineering now allow scientists to directly manipulate a DNA sequence to generate desirable traits. These techniques are also being used to increase the quality of food crops, adaption of exotic medicinal plant species or incorporate other desirable elements into plants. An example is the introduction of the gene coding for beta carotene, the precursor of vitamin A to rice and cassava. Despite the immense importance of genetic modification and its many applications, the safety, efficacy and benefits of genetically modified organisms have been debated globally. It is therefore important that scientists, particularly in developing countries, acquire knowledge of the theory and practice of genetic modification and how to detect genetically modified organisms.

Lectures and practical activities during this workshop will cover basic and advanced concepts in molecular biology and lay emphasis on their applications in performing genetic modification and detecting genetically modified organisms. Topics will include:

- Health and safety regulations and bioethics
- From DNA to protein
- Overview of gene expression and regulation
- Plant DNA and RNA isolation
- Polymerase chain reaction(PCR) and applications in GMO detection
- Agarose gel electrophoresis and applications in DNA analysis
- Gene cloning and transformation
- DNA technology in detecting genetically modified food products
- Introduction to bioinformatics and primer design

Pre-Workshop facilitator: Opeolu Ojo, PhD, MRSC, CSci, FHEA, FIBMS

HANDS ON TRAINING SCHEDULE (DAY 1 – DAY 3)

Date/Time	Event
Day 1: 18/09/2017	
9.00 – 10.00	Arrival/Registration
10.00 – 11.00	Lecture 1: Pre-course assessment/ Intro. to biotechnology
11.00 – 11.20	Short Break
11.20 – 12.00	Lecture 2: Chromosomes, DNA, RNA and Genes: Structure and Functions
12.00 – 13.30	<i>Lab 1: Laboratory Health and Safety and Management/Pipetting techniques</i>
13.30 – 14:00	Lunch
14.00 – 14.40	Lecture 3: DNA extraction techniques
14.40 – 18.00	<i>Lab 2: Genomic DNA extraction</i>
Day 2: 20/09/2017	
9.00 – 10.30	Lecture 4: Introduction to Polymerase Chain Reaction

10.30 – 11.00	Tea
11.00 – 13.30	Lab 3: PCR amplification
13.30 – 14.30	Lunch
14.30 – 16.00	Lecture 5: DNA Sequencing
16.00 -18.00	Lecture 6: Primer Design workshop
Day 3 21/09/2017	
9:00 – 10.00	Lecture 7: Principles of Gel Electrophoresis
10.00 – 10.15	Tea break
10.15 – 12.00	Lab 4: Electrophoresis
12.00 – 13.30	Lecture 8: Gene cloning and transformation
13.30 – 14.00	Lunch
14.00 – 14.30	Lecture 9: Post Course Evaluation
14.30	Departure

Day 3: 2 pm – 5 pm Arrival of Participants in the main Workshop

Cocktail: 5 – 7 pm @ Obafemi Awolowo University Guest House and Conference Centre

NB: This is subject to availability of funds

DAY 4- MORNING SESSION (Chairman: Prof A M A Imevbore/ Prof A.A Elujoba)

08:30- 09:00	Registration	
09:00-09:15	National Anthem/Introduction of Guests	DrE. F. Aransiola/ Dr. A.S.Oladejo
09:15-9:25	Workshop Objectives/Opening Remarks	Prof. B.O. Solomon, Chemical EngrDept OAU
9:25 – 9:30	About IBG	Prof. F. Agboola
9:30 – 9:40	Welcome Address	VC. OAU- Prof. E. O Ogunbodede
9:40 – 10:00	Honorable Minister’s Speech: Science and Technology- a Panacea for Food Security in Nigeria.	Honourable Minister of Science and Technology –Dr O. Onu
10:00 – 10:10	Royal Goodwill Message from the Source	HIM, Oba Dr. BabatundeAdeyeyeEnitanOgunwusi, Ojaja II, Ooni of Ife
10:10 – 10:20	Goodwill Messages	Monsanto, Applied Biotech, Inqaba, Bristol, etc
10:20 – 10:40	Keynote Address: The State of Biosafety Regulation in Nigeria	DG/CEO NBMA- Dr.Rufus Ebegba

10:40– 10:50	Group photograph/ tea break	
10:50 -11:20	From Recombinant Technology to Genome Editing	Dr. O. Nashiru & Dr. O. Omotuyi
11:20– 11:45	Health and Environmental Implications of GMOs	DrNkem Torimiro/ Prof Sylvia Uzochukwu
11:45-12:00	Twenty-six years of Biosafety Management	Dr MatthewP. O. Dore PBS
12:00-12:15	Legal issues associated with biotechnology development and commercialization	Bar. Aja Onyilofor Inkiru - Legal Adviser, NBMA
12:15-12:30	Commercialization of GMOs in Africa	Dr. Kehinde Johnson/Mrs Esther Adebayo
12:30 - 13:00	Requirements for the Establishment of Institutional Biosafety committee (IBC)-	To be suggested by DG NBMA
13:00 – 13:20	Prospects of new GM Crops for addressing specific needs associated with economic recession in Nigeria	Prof B.O. Solomon
13:20-13:40	Addressing Challenges of Biosafety Management in The University Environment	Prof E EBoboye – FUT, Akure
13:40 – 14:10	QUESTIONS/ANSWERS/ DISCUSSION	Moderator:Dr J.T Opabode
14:10– 15:15	LUNCH BREAK	

AFTERNOON SESSION (Chairman: Prof Olu Odeyemi)

15:15-15:40	Development of Transgenic Field Crops in Nigeria: <i>The PBR Cowpea Experience</i>	Prof M F Ishiyaku
15:40-16:00	Agricultural Potential of Glyphosate	Prof O A Akinyemiju
16:00 – 16:25	Curriculum Approach to Understanding and Accepting Biotechnology in Food Systems: Review of the EDULINK FSBA Project and Model	Prof Jerry Ugwuanyi – UNN
16:25 – 17:00	QUESTIONS/ANSWERS/ DISCUSSION	Moderator: Dr(Mrs) A. Oluwaranti
17:00 – 18:30	CLOSURE FOR DAY ONE/VISITS TO HISTORICAL CITY OF ILE-IFE	

DAY THREE (Chairman:Prof F. Agboola)

8:30 – 09:00	Recap of Day 2 Events	Dr J T Opabode and Team
09:00 – 10:10	<ul style="list-style-type: none"> • Round table discussion with press men in attendance <ul style="list-style-type: none"> ➤ Food security and biotechnology ➤ Biotechnology and Health ➤ Biotech and environment ➤ Ethical Considerations and GMOs ➤ Challenges of biotech research and development in Nigeria. ➤ Challenges of domesticating GM Technology in Nigeria 	Rapporteur:Dr E.M Obuotor Discussants (Prof O.G Omitogun) Prof Sylvia Uzochukwu Prof B.O. Solomon Prof E.B. Sonaiya Prof. E.E Boboye Prof M F Ishiyaku
10:10 – 10:20 - TEA BREAK		
10:20 – 11:30	Round table discussion with press men in attendance <ul style="list-style-type: none"> ➤ Legal and Socio-economic aspects of GM development and adoption ➤ Status of GMO research in Nigeria ➤ Biosafety challenges in Nigeria ➤ Biodiversity and food security 	Rapporteur :Dr Akorede Yusuf Bar. Aja Onyilofor Inkiru Dr C.A. Fatokun Dr. M.P.O. Dore Dr.J.O.Oyedele
10:30 - 11:50	<ul style="list-style-type: none"> • QUESTIONS AND ANSWERS • PRESENTATION OF COMMUNIQUÉS 	Moderator: Dr.(Mrs.) A.O. Bolaji Dr. (Mrs.) A M A Sapkere Dr. (Mrs.) N. Torimiro
11:50 - 12:00	CLOSING REMARKS/ VOTES OF THANKS	Prof O.A Akinyemiju
CLOSE FOR THE DAY AND DEPARTURE		