

ANNE NDANU MUIA

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1. Career Objective and Research Interest

My career objective focuses on use of modern tools in Molecular Biology to overcome biotic and abiotic constraints of food production in Sub-Saharan Africa; and Teaching. Specifically, my interest revolves around four interrelated areas: i) Genomic approaches to understanding virulence in plants; ii) RNA interference (RNAi) as a resistance mechanism against plant viruses iii) genetic engineering strategies for virus resistance in tropical crops and iv) passing on knowledge and skills obtained, as well as mentoring students

2. Summary of achievements

1. 2014 - ABCF fellowship awardee, BecA-ILRI Hub.
2. 2006 – World Health Organization Master of Science Research Fellowship awardee. Awarding institution – WHO through KEMRI - CDC Program
3. 2005 – Master of Science Scholarship awardee. Awarding institution – Kenyatta University

3. Education

Ph.D., Biotechnology, Ongoing

Kenyatta University, Nairobi, Kenya

Specialization: Biotechnology and Molecular Biology

Thesis title: Uncoupling Interaction between Maize Chlorotic Mottle Virus (MCMV) and Sugarcane Mosaic Virus (SCMV) to Develop Virus Resistant Maize

M.Sc., Biotechnology, 2009

Kenyatta University, Nairobi, Kenya

Thesis title: Effect of Insecticide-Treated Bed Nets (ITNs) on the Genetic Diversity of *P. Falciparum* Circumsporozoite Protein (CSP) in a Malaria Holoendemic area of Western Kenya

B.Sc., Biochemistry, 2004

Kenyatta University, Nairobi, Kenya

Second Class Honours, Upper Division

4. Professional training

1. Training on immunological and molecular biology techniques; KEMRI/ CDC Program, Kisumu. 2006.
2. Laboratory Biosafety training course, KEMRI/ CDC Program, Kisumu August 2006

4.1 Workshops and short courses attended

1. Advanced Bioinformatics training course, at BecA-ILRI Hub, Nairobi campus. August, 2014
2. Kenyatta University Plant Transformation Laboratories at the Kenyatta University Conference Center. 22nd – 29th June 2013:
3. Bioinformatics training course, at BecA-ILRI Hub, Nairobi campus. March, 2007.
4. Research methodology and Proposal writing workshop at the Kenyatta University Conference Center. 28th March and 6th June, 2013.

5. Work experience

1. 2015: Research fellow, BecA-ILRI Hub
2. 2011 – To date: Part time Lecturer, Kenyatta University
3. 2006 - 2009: Research Student, KEMRI/ CDC Program, Kisumu, Kenya
4. 2005: Medical Representative: Metro pharmaceuticals - Kenya
5. 2003: Assistant at the Information, Communication & Technology department, Kenyatta University

6. Publications

1. Spectrophotometric Determination of traces of Lead (II) in Spinach Samples marketed in Chuka, Kenya - **International Journal of Modern Chemistry, 2014**
2. Effect of malaria transmission reduction by insecticide-treated bed nets (ITNs) on the genetic diversity of Plasmodium falciparum merozoite surface protein (MSP-1) and circumsporozoite (CSP) in western Kenya –**Malaria Journal, 2013**

7. Academic presentations

Effect of Insecticide-Treated Bed Nets (ITNs) on the Genetic Diversity of *P. Falciparum* Circumsporozoite Protein (CSP) in a Malaria Holoendemic area of Western Kenya – Presented at the Kenyatta University post-graduate conference in 2009

8. Hobbies

Reading, watching wildlife and travelling.

9. Referees

Dr. Steven Runo (Ph D). Senior Lecturer, Department of Biochemistry and Biotechnology, Kenyatta University. P.O. Box 43844-00100, Nairobi, Kenya:

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Ms. Eunice Mailu (MSc). Epidemiologist, Ministry of Public Health – Division of Leprosy, **Tuberculosis**, and Lung Disease Unit, Kenya. P.O. Box 14494 - 00400, Nairobi – Kenya:

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Prof. Joseph Ngeranwa (Ph D). Acting Dean, School of Pure and Applied Sciences, Kenyatta University. P.O. Box 43844-00100, Nairobi, Kenya:

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