CURRICULUM VITAE

Dr. Abigael Atieno Ouko **CV 2021-02-02**

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RESEARCH AREA

- Genetics of fungal metabolites in plants and animal products
- Capacity building in food safety and genetics
- Promoting sustainable land use and biodiversity through improving production of indigenous crop varieties and animal husbandry

1. UNIVERSITY EDUCATION

Doctor of Philosophy in Genetics (University of Nairobi) 2018
Master of Science in Genetics (University of Nairobi) 2011
Bachelor of Science (Biology)-First Class Honours and University of Nairobi Gold medallist 2006/2007

2. SELECTED WORKSHOP TRAINING AND CONFERENCES

Training Centre in Communication (TCC), Africa - Science Communication and Communicating to Non-Scientists Workshop, 25th – 27th January, 2021. (Online)

TWAS-SAREP Regional Young Scientists' Conference, October, 2019 - (Safari club, Hotel, Nairobi)

Pedagogy, Andragogy and Mentorship Training, May, 2019- (CCU, University of Nairobi)

DAAD Conference Young Scholars in Africa March, 2019 - (OleSereni Hotel-Nairobi, Kenya).

Kenya National Academy of Sciences (KNAS) – Recognition and Certification of founding members of Kenya National Young Academy of Sciences, February, 2014 - (Daystar University)

AAS/Twas ROSSA/ NACOSTI-Building African Capacity on Cell Biology and Regenerative Medicine, November, 2013- (The African Academy of Sciences (AAS))

UNICEF/UNDP/World Bank/WHO- Special Programme for Research and Training in Tropical Diseases. “Effective project planning and evaluation in biomedical research.” August, 2008 - (Kenya Agricultural Research Institute)

3. RESEARCH EXPERIENCE

Currently involved in a community-based project linking East and West African farming systems experience into a BELT of sustainable intensification as geneticist.

PhD Research- Screened selected maize inbred lines and developed crosses for resistance to aflatoxin and fumonisin accumulation, (University of Nairobi)- 2014 to 2018

MSc Research-Investigated the presence of Papilloma viruses in baboons and their linkage to the development of cervical cancer-2009 to 2011

4. WORK EXPERIENCE

University of Nairobi, School of Biological Sciences- January, 2011-to date:

In the past 2 years at The University of Nairobi, School of Biological Sciences, I have been teaching the following units: SBT 546: Mutations; SBT 544: Population and Quantitative Genetics; SBT 404: Population Genetics; SBT 304: General Genetics; SBT 204: Plant Structure and Function and SBT 102: Introductory Biochemistry and Genetics.

Institute of Primate Research, National Museums of Kenya- November 2007 to January, 2011:

Participated in projects related to the female reproductive system such as cervical cancer, endometriosis which involved vaccine and drug testing in the baboon model (*Papio anubis*).

5. STUDENT TRAINING

Currently supervising 1 PhD student and 1 MSC student.

PUBLICATIONS

- **Ouko, A.,** Okoth S., Nakisani E. l. N., Altus, V. and Lindy, J.R. 2020. Tolerance to *Fusarium verticillioides* infection and fumonisin accumulation in maize F1 hybrids and subsequent F2 population. *Agronomy journal,*1-13. DOI: 10.1002/agj2.20145
- **Ouko, A.,** Okoth, S., Amugune, N., Vesa J. 2018. Characterization of Mating Type Genes in *Aspergillus flavus* Populations from Two Locations in Kenya. *Advances in Agriculture*. https://doi.org/10.1155/2018/3095096.
- **Ouko, A.,** Okoth, S., Amugune, N., Vesa J. 2018. Field assessment of agronomic performance resistance to aflatoxin and fumonisin accumulation in selected maize inbred lines in Kenya. *Agriculture, forestry and fisheries.* 2018; 7(4): 94-100. Doi: 10. 11648/j.aff.20180704.11
- **Rose, LJ,** Okoth, S., Beukes, I., Ouko, A., Mouton, M., Bradley, CF., Makumbi, D., Viljoen, A. Determining resistance to *Fusarium verticillioides* and fumonisin accumulation in African maize inbred lines resistant to *Aspergillus flavus* and aflatoxins. 2018. *Euphytica* (2017) 213:93

- **Okoth S.,** Rose LJ., Ouko A., Netshifhefhe NEI., Sila H., Viljeon A., 2017. Assessing Genotype-By-Environment Interactions in Aspergillus Ear Rot and Pre-Harvest Aflatoxin Accumulation in Maize Inbred Lines. *Agronomy* 7, 86. https://doi:10.3390/agronomy7040086
- **Okoth, S.,** Rose, LJ., Ouko, A., Beukes I., Sila H, Mouton M., Flett BC., Makumbi D. and Viljoen A. 2017. Field evaluation of resistance to aflatoxin accumulation in maize inbred lines in Kenya and South Africa. *Journal of Crop Improvement*, 31:6, 862-878, DOI: 10.1080/15427528.2017.1391915