

Title: Dr

Name: George Ohuma K'Otuto

**Email: georgekotuto@gmail.com
okotuto@maseno.ac.ke**

**Address: Applied Plant Science Dept
School of Agric & Food security
Maseno University
333-40105 MASENO,
KENYA**



Resume

An alumni of University of Nairobi (B.Sc & M.Sc), holds a PhD in Horticulture of Maseno University (agro-ecology/crop ecology). I have long university working/teaching experience (from 1999) having worked my way from Graduate Assistantship through Tutorial Fellow to Lecturer. Currently, the departmental coordinator of field trips and industrial attachment. I have taught several university level courses at undergraduate and postgraduate levels in the fields of plant & postharvest physiology, ecology, horticultural principles and production courses and supervised several students' projects. I received scholarships from University of Nairobi for M.Sc.; and State of Israel -Ministry of Foreign Affairs Centre for International Cooperation (MASHAV) for International course on Desert Agrobiology, Ben-Gurion University, Israel.

Current and previous researches include:

1. Adaptations to climate change among the small-holder farmers via development of appropriate technologies.
2. Indigenous/under-utilized crops having served a consulting researcher for Centre for Indigenous Knowledge Systems and By-Products (CIKSAP) when undertaking community based sustainable conservation of indigenous vegetables of Kenya.
3. Crop production under stress-full conditions: I was Part of an International research team at Ben-Gurion University working on Crop production under harvested runoff and saline water irrigation in the Negev desert, Israel. I also worked with German – Israel Agricultural Research Agreement (GIARA) project researching on agroforestry in drylands of Turkana, Kenya.
4. Productivity and Carbon balance of savannah: Investigated the drivers of Lambwe Valley savannah and influence of land use systems on its productivity with a view to ascertaining potential carbon sequestration role of this ecosystem.

Contracts:

- a). Lead consultant – BIROM Consultants undertaking laboratory installation and training on equipment at KALRO Aluo, Busia. –Aug 2017 to Dec 2018- sponsored by German Development Cooperation (GIZ) contract No. 83259002.
- b). Undertook an evaluation of soils in Kopere area of Chemelil Kisumu County Kenya, for the site's suitability for a large scale solar power generation project in April, 2017.
- c). Conducted a survey study of farmers' perception of rice varieties and general rice production technologies in the rice growing areas of western Kenya in March, 2017 for AFRITEC seeds limited.
- d). Organised and conducted training of trainers course on Farmers' Field School for varietal trials held at Mavellon Hotel Ahero, January 10-11, 2017 for AFRITEC seeds limited.

- e). Organised and conducted training of trainers course on Farmers' Field School for varietal trials held at Ahero Pastoral Centre, March 15-16, 2016 for AFRITEC seeds limited.

Publications:

1. Peer reviewed

- a). Okayo R.O., **G. O. K'Otuto** and F. Ouma. 2017. Interactive defense responses of *Arabidopsis thaliana* to phloem feeding and leaf chewing insects. *International Journal of Agronomy and Agricultural Research* 11(1) 51-59
- b). **K'Otuto G.O.**, D.O. Otieno, J.C. Onyango, & H.O. Ogindo, 2014. Seasonal dynamics in carbon dioxide fluxes of the herbaceous layer of a moist Kenyan savannah. *Applied Ecology & Environmental Research* 12(1): 63-82.
- c). **K'Otuto G. O.**, Otieno, D. O., Seo B., Ogindo H.O., Onyango J. C., 2013. Carbon dioxide exchange and biomass productivity of the herbaceous layer of a managed tropical humid savanna ecosystem in western Kenya. *Journal of Plant Ecology*, 6(4): 286-97 doi: 10.1093/jpe/rts038.
- d). Maina J. N., Otieno D., Onyango J. C., **K'Otuto G.**, Habiyaremye G., 2012. Seasonal response of Carbon and Nitrogen to Ungulate Activities in a Kenyan Savanna. *East African Journal of Science & Technology* 2(1): 29-53
- e). **K'Otuto G.O.** 2001. Effect of supplemental irrigation on soil chemical properties and growth of *Acaia saligna* in North-western Kenya. M.Sc. Thesis, University of Nairobi.

2. Conference proceedings

- a). **K'Otuto G.O.**, 2014. Impacts of agricultural expansion on natural ecosystems of Lambwe Valley. Paper presented in Consortium for Research in East African Tropical Ecosystems (CREATE) Conference on climate change, ecological interactions, land use management and social impacts 19th Feb, 2014 at University Botanic Gardens, Maseno University Kenya.
- b). **K'Otuto G.O.**, D.O. Otieno, J. C. Onyango & H.O. Ogindo. 2012; Soil moisture as driver of ecosystem CO₂ exchange in the herbaceous layer of savannah of Ruma, Kenya. Paper presented in UNESCO-DAAD Alumni Conference on Sustainable Water Management in African Countries 1st - 3rd Oct., 2012 Maseno University (Kisumu Hotel) Kenya.

OTHER PERTINENT INFORMATION

- Reviewer for international journals:
 - ✓ Journal of Soil Science and Environmental management (JSSEM)
 - ✓ Journal of Agricultural and Crop Research (JACR)
- Computer Literate with good command of MS –Office and data management and processing programmes including SPSS, Genstat, Instat, SAS.