Biological Publications


Omwoyo Ombori, John Vincent Omondi Muoma, Jesse Machuka 2012 Agrobacterium tumefaciens mediated introgression of Nicotiana protein kinase (NPK1) in selected Kenyan Maize genotypes to enhance drought tolerance in prep.


Maurice O. Omolo, Solomon Ateya, Judith V. Adhiambo and Dennis Ochieno (2013). Bioprospecting for phytochemical control agents of the stored product pest, Prostephanus truncatus (Horn) (Coleoptera: Bostrichidae) from some western Kenya flora. First International Conference on Pesticidal Plants (ICPP), Book of Abstracts.


Books


Research and Extension
Humphrey Agevi

Undertook a project entitled “Establishment of Science Clubs across the country with the help of former Kenyan students of France”, at St. John the Baptist, Likuyani Secondary School on Agro forestry practises within Lugari District.

Carried out an audit and evaluation in Masinde Muliro University of Science and Technology using the Unit Sustainability Assessment Tool (USAT) on whether MMUST is in line with the goals of Education for sustainable development (ESD) under the UNEP project

Carried out baseline survey of the Community Forest Associations (CFAs) and Community Based Organizations (CBO) around Kakamega Forest and the implications that their activities have towards the conservation
Current research Interest

Dr. John Muoma


Fulbright Scholarship 2011-12 USD 18,000 Development of a Platform for transformation of Duckweed and transformation of maize to introduce rheological properties in maize flour. [http://www.waksman.rutgers.edu/messing/people/m](http://www.waksman.rutgers.edu/messing/people/m)

Incidence, distribution and virulence of begomoviruses infecting Cassava in Western Kenya Masinde Muliro University of Science and Technology, 2012

Occurrence, distribution and virulence of cassava brown streak virus in western Kenya Masinde Muliro University of Science and Technology, 2012

Effects of beans resistance to pathogens on rhizobium root colonization as influenced by hyacinth based manure in Kakamega, MMUST, 2012.

The potential impact of water hyacinth compost and Rhizobium inoculum on maize and common bean production in the Lake Victoria Basin Maseno University, 2012

Mr. Aggrey Osogo

Occurrence and distribution of cassava brown streak disease in Western Kenya.

Carbofuran degrading microorganisms in River Nzoia basin.

Diseases of legumes in Western Kenya.

Mr. Dennis Ondieki

Interest is in plant Biotechnology with a bias towards Crop Protection.

Ongoing Research

Dr. John Muoma

2. Fulbright Scholarship 2011-12 USD 18,000 Development of a Platform for transformation of Duckweed and transformation of maize to introduce rheological properties in maize flour. http://www.waksman.rutgers.edu/messing/people/m

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Effects of beans resistance to pathogens on rhizobium root colonization as influenced by hyacinth based manure in Kakamega. Masinde Muliro University of Science and Technology, 2012

The potential impact of water hyacinth compost and Rhizobium inoculum on maize and common bean production in the Lake Victoria Basin Maseno University, 2012

Dr. Donald Siamba

Grant No REF: EAAPP/RDCoE/RP/04/2011: Enhancing appropriate policies and safety standards of feeds and milk for improved livelihoods in the ECA countries (Associate Researcher). Ongoing

Grant No EAAPP/2010/AH/01: Development of a pH based pen-side test for mastitis control and improvement of milk quality. (Associate Researcher). Ongoing.


Mr. Zedekia Odira Onyando

Spacio - temporal variations in physicochemical conditions and macroinvertebrates assemblages along land use gradients in River Isiukhu watershed, Western Kenya.

Supervised Research

Prof. William A. Shivoga

Christine Akinyi Onyango: Assessment of Water Quality by Use Of Macro-Invertebrates in Omubhira and Lurambi Streams: Implications for Management and Conservation (MSc Graduate 2012, Masinde Muliro University of Science and Technology).

Oscar Donde: Human health risks associated with the loading and ecological maintenance of coliform (enteric) bacteria in the drinking and surface waters of Lake Naivasha. (MSc Graduate 2012, Egerton University).

Dr. Henry B.O Lung‘ayia


Zedekiah Odira Onyando - Spatial analysis of water chemistry relative to riparian land cover and land use practices in River Isiukhu catchment. Master of Science Thesis by Zedekiah Odira Onyando. June 2011 to date (on-going).


Dr. Hassan Were

Mr. Aggrey Osogo - Occurrence and distribution of Cassava Brown Streak Disease in Western Kenya. Mr. Aggrey Osogo - Research completed and supervised by Dr. Hassan Were.

Dr. John Muoma


Nyongesa Claris Omuse (Bsc) SCP/G/6/10 Incidence, distribution and virulence of begomoviruses infecting Cassava in Western Kenya Masinde Muliro University of Science and Technology, 2012

Aggrey Keya Osogo (BSc) SCP/G/02/10 Occurrence, distribution and virulence of cassava brown streak virus in western Kenya Masinde Muliro University of Science and Technology, 2012.
Victoria Naluyange (Bsc Agric) SCP/G/06/11 Effects of beans resistance to pathogens on rhizobium root colonization as influenced by hyacinth based manure in Kakamega. MMUST, 2012.

Kawaka Fanuel (M.Sc.) PG/PH/0008/2012 The potential impact of water hyacinth compost and Rhizobium inoculum on maize and common bean production in the Lake Victoria Basin Maseno University, 2012.

Dennis Ondieki - Research on resistance response of selected Napier grass accessions to Napier head smut disease.

Dennis Ondieki - Elucidation of the resistance form of selected asymptomatic Napier accessions to head smut disease using molecular tools.

Dr. Dennis M.W. Ochieno

Emily Wamalwa (2013) Screening of Napier and other susceptible grasses for resistance to Napier stunt disease; MSc Thesis (Complete), MMUST.

Silas K. Simiyu (PhD). Olfactory behavior of parasitoid Phorid fly to odors from stingless bees and fire ants (MMUST, Ongoing).

Edith K. Avedi (MSc). Efficacy and safety of Fusarium oxysporum in the biological control of the witchweed Striga hermonthica parasitizing maize in western Kenya (MMUST, Ongoing).

Benard T.M. Kharinda (MSc). Phenotypic characterization of bean genotypes for resistance to anthracnose (Colletotrichum lindenmuthianum) in western Kenya (MMUST, Ongoing).

Efficacy of Emerald Gold and Loyalty pesticides on the tobacco pests Bemisia tabaci and Myzus nicotianae in western Kenya (MMUST, Ongoing).

Eric B. Luvonga (MSc). Altitudinal variation and its implications on the diversity and efficiency of avocado flower visiting insects in taita hills, Kenya (MMUST, Ongoing).

Gerald Ngurwe (MSc). Integration of botanical pesticides and manures in the management of aphids and mites on black night shade (Solanum nigram) (University of Eldoret, Ongoing).

Dr. Henry Lung’ayia

Christine Akinyi Onyango - ‘Distribution of Macroinvertebrates in Relation to Physicochemical Gradients in Omubhira and Lurambi Streams, Western Kenya ‘ and graduated on 7th December 20

Peter Gudo Ogira

Monopoly in Electricity Generation and Electricity Supply is a threat to Investment Expansions in Kenya. ( International Journal of Science and Research (IJSR), Vol. 3 (9)) 2014
David Liti and James Wanga, Effects of Temperature on Embryonic Development Time and Yolk Absorption Period of Oreochromis niloticus. (International Journal of Science and Research (IJSR), Vol. 3 (9)) 2014

Telephone-Based Rehabilitation of Lifestyle Behavioral Related Diseases by Health Care Professionals in Developing Countries. (International Journal of Disaster Management & Risk Reduction, Vol. 2 (1)) 2009