

# CURRICULUM VITAE

## Personal information

Surname: Matiru

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Nationality: Kenya

## Contacts addresses:

Jomo Kenyatta University of Agriculture and Technology

Department of Botany

Sub-department of Medical Microbiology

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## Education

1998-2004 - University of Cape Town, South Africa. (PhD Microbiology).

1988-1992 - University of the Philippines at Los Banos, Philippines. (MSc Plant Pathology).

1979-1983 - Nairobi University (Kenyatta campus). (BEd (Science) Botany and Zoology).

1976-1978 - Kenya High School, Nairobi, Kenya. (East African Advanced Certificate of Education).

1973-1976 - Kenya High School, Nairobi, Kenya. (East African Certificate of Education).

1966-1972 - Kasarani Primary School, Nairobi, Kenya. (Certificate of Primary Education).

## Fellowship

1998-2004 - University Science, Humanities and Engineering Partnerships in Africa (USHEPiA).

## Employment

2006 to Present – Senior Lecturer, Jomo Kenyatta University of Agriculture and Technology,

1995 to 2006 - Lecturer, Jomo Kenyatta University of Agriculture and Technology, Nairobi.

1993-1995 - Assistant Lecturer, Jomo Kenyatta University of Agriculture and Technology,

1985-1988 - Teacher, Loreto Kiambu Secondary School.

1983-1985 - Teacher, Kambaa Girls High School , Kiambu.

### **Duties in the department**

Chair, Organizing committee for Faculty of Science 2<sup>nd</sup> Scientific Conference

Chair, MSc Plant Pathology syllabus development.

Technical committee member for faculty conference, 2006.

Examinations officer Botany department. 1996-1998; 2004-2006

Chair, welfare committee

Member, syllabus review committee for ADP crop protection programme, medical microbiology

Convener, departmental research and training committee.

MSc class adviser and exam's coordinator

Member, Departmental postgraduate studies committee

Representative to faculty research and training committee

### **Administrative experience**

Chairman of department, Medical microbiology sub-department. 2007 to present.

I have acted as COD Botany on a number of occasions e.g.

December 11<sup>th</sup> 1995 to 29<sup>th</sup> January 1996

May 2<sup>nd</sup> to 9<sup>th</sup> July 1996

February 28<sup>th</sup> to 5<sup>th</sup> March 2005

March 4<sup>th</sup> to March 10<sup>th</sup> 2007

### **Workshops/Trainings/Seminars**

1. Leadership and management capacity development training. 13<sup>th</sup> -16<sup>th</sup> February, 2008. Sportsman Arms, Nanyuki.
2. Evaluation workshop for the USHEPiA programme. September 14-18<sup>th</sup> 2007.
3. Training of trainers Workshop for HIV/AIDS management. Jomo Kenyatta University of Agriculture and Technology 28<sup>th</sup> November to 2<sup>nd</sup> December, 2005
4. Training in Molecular biology and Biotechnology techniques Nairobi University January 18<sup>th</sup> to 23<sup>rd</sup>, 1998.
5. Gender workshop. 11<sup>th</sup> March 2009. AICAD.
6. East African Regional Training Course in Diagnostic Techniques in Plant Pathology. 6-15<sup>th</sup> May, 1996
7. ISO training workshop. From July?? To ????
8. African Biosafety Association workshop 8<sup>th</sup> to 12<sup>th</sup> March 2010, KEMRI

### Journal Reviewer

1. On editorial board of East African Journal of Botany
2. Reviewer for Journal of Tropical Microbiology and Biotechnology
3. Reviewer for African Journal of Biotechnology
4. Reviewer for Journal of Agriculture, Science and Technology.
5. Reviewer for RPE proposals

### Membership in professional associations

1. Microbiology Society of Kenya
2. Natural Products Research Network for Eastern and Central Africa (NAPRECA).
3. African Biosafety Association of Kenya

### Journal Papers

1. Kimang'a N., Sayeed S., Revathi G., Ojwang p., **Matiru V.**, Devani S., Shah M., and Kariuki S. 2009. Prevalence of gastric mucosal interleukin-1 polymorphism in Kenyan patients with advanced gastric cancer. South African medical Journal **99**(2): 95-97.
2. Mwangi J.K., Nyende A.B., Demo P. and **Matiru V.N.** 2009. Improving seed potato tuber multiplication in Kenya using the rapid seed scheme technique. (Accepted; to appear in JAGST Volume **11**(1).
3. Mwangi J.K., Nyende A.B., Demo P. and **Matiru V.N.** 2008. Detection of latent infection by *Ralstonia solanacearum* in potato (*Solanum tuberosum*) using stems instead of tubers. African Journal of Biotechnology **7**(11): 1644 – 1649.
4. Kanu S., **Matiru V.N.** and Dakora F.D. 2007. Strain and species differences in rhizobial secretion of lumichrome and riboflavin, measured using thin-layer chromatography. Symbiosis **43**: 37-43
5. **Matiru V.N.**, Jaffer, M.A. and Dakora F.D. 2005. Rhizobial infection of African landraces of sorghum (*Sorghum bicolor* L.) and finger millet (*Eleusine coracana* L.) promotes plant growth and alters tissue nutrient concentration under axenic conditions. Symbiosis **40**: 7-15.
6. **Matiru V.N.** and Dakora F.D. 2005. Xylem transport and shoot accumulation of lumichrome, a newly recognized rhizobial signal, alters root respiration, stomatal conductance, leaf transpiration and photosynthetic rates in legumes and cereals. New Phytologist **165**: 847-855
7. **Matiru V. N.** and F.D. Dakora. 2005. The rhizosphere signal molecule lumichrome alters seedling development in both legumes and cereals. New Phytologist **142**: 463-467.

8. **Matiru V.N.** and Dakora F.D. 2004. Potential use of rhizobial bacterial as promoters of plant growth for increased yield in landraces of African cereal crops. *African Journal of Biotechnology* 3: 1-7.

### **Refereed Conference Proceedings**

1. Waiganjo M.M., Gatambia E. and **Matiru V.N.** 2007. The potential of pawpaw and Aloe leaf extracts for the control of French bean rust, *Uromyces appendiculatus* in Kenya. Proceedings of JKUAT Scientific Technological and Industrialization Conference. Pg 680 – 685.
2. Mwangi J.K., Nyende A.B., **Matiru V.N.** and Demo P. 2007. Improving seed potato (*Solanum tuberosum* L.) quality in farmers fields in Kenya using positive selection. Proceedings of JKUAT Scientific Technological and Industrialization Conference. Pg 651– 652.
3. Nyaga J.M and **Matiru V.N.** 2007. Effects of nutrients omission trials on the abundance and diversity of beneficial fungi (mycorrhizae) and pathogenic fungi (*Fusarium* spp). Proceedings of JKUAT Scientific Technological and Industrialization Conference. Pg 857 – 871.
4. Menge D.N., Muthuri C.W., and **Matiru V.N.** 2007. Studies on synergism between an antibiotic and metallic ions in tissue culture. Proceedings of JKUAT Scientific Technological and Industrialization Conference. Pg 108 – 122.
5. Dakora F.D., Kanu S. and **Matiru V.N.** 2005. Ecological significance of lumichrome and riboflavin as signals in the rhizosphere of plants. In: *Biological Nitrogen Fixation, Sustainable Agriculture and the Environment.* (Y Wang, C Emerich and WE Newton, eds.), pp 253 - 256. Springer, Netherlands.
6. **Matiru V.N.**, Jaffer M.A., Waldron M.E. and Dakora F.D. 2003. Rhizobial colonization of roots of African landraces of sorghum and millet. In: *Proceedings of Microscopy Society of Southern Africa, Volume 33* pg. 61.
7. Dakora F.D., **Matiru V.N.**, King M. and Phillips D.A. 2002. Plant growth promotion in legumes and cereals by lumichrome, a rhizobial signal metabolite. In: Finan T.M., O'Brian M.R., Layzell D.B., Vessey K. and Newton W.E., eds. *Nitrogen Fixation: Global perspectives.* Wallingford UK: CABI Publishing, 321-322.
8. **Matiru V.N.** and Dakora F.D. 2000. Growth promotion in landraces of tropical grain legumes and cereal plants by lumichrome, a rhizobial signal molecule. In: *Proceedings of the 9<sup>th</sup> congress of the African association for biological nitrogen fixation: Challenges and imperatives for BNF research and application in Africa for the 21<sup>st</sup> Century.* 25-29<sup>th</sup> September 2000. Nairobi, Kenya.

9. **Matiru V.N.**, Jaffer M.A and Dakora F.D. 2000. Rhizobial colonization of African landraces of sorghum and millet and the effects on sorghum growth and P nutrition. In: Proceedings of the 9<sup>th</sup> congress of the African association for biological nitrogen fixation; Challenges and imperatives for BNF research and applications in Africa for the 21<sup>st</sup> Century. 25-29<sup>th</sup> September, 2000. Nairobi Kenya pg 99-100.
10. **Matiru V.N.** and Thomson J.A. 1998. Isolation of *Acetobacter diazotrophicus* from Coffee, Tea and Banana. In Proceedings of the 8<sup>th</sup> African Association for Biological Nitrogen Fixation Congress, Cape Town, South Africa. Pg 66. 30<sup>th</sup> August - 3<sup>rd</sup> September, 1998.

### Conference Presentations

1. Ngamau C.N., Mwaura P., **Matiru V.**, Muthuri C. and E. Kahangi.. Harnessing endophytes for sustainable production of tropical fruits. Paper presented at the Horticultural Association of Kenya (HAK) workshop, Masinde Muliro University of Science and Technology. 8<sup>th</sup> to 11<sup>th</sup> December, 2009
2. Mwongera T., Matiru V. and Wasilwa L. Effects of soil management and *Trichoderma asperellum* on severity of passion fruit wilt disease. Paper presented at 11<sup>th</sup> KARI Biennial scientific conference, KARI Headquarters, 10<sup>th</sup> – 14<sup>th</sup> November 2008
3. Revathi G., Dinda, V., Raja A., Kariuki S., and **Matiru V.** Surveillance of surgical site infections at Aga Khan University Hospital, Nairobi Kenya. Paper presented at the APECSA 11<sup>th</sup> International Scientific Conference Nairobi, Kenya. November 13<sup>th</sup> 2008.
4. Mwangi, J.K., Nyende, A.B., **Matiru, V.N** and Demo, P. Improving seed potato (*Solanum tuberosum*) quality in farmers' fields in Kenya using positive selection. JKUAT 3<sup>rd</sup> Scientific and Technological conference, 25-26<sup>th</sup> October, 2007.
5. Mwangi, J.K., Nyende, A.B., Demo, P., and **Matiru, V.N.** Suitability of using stems instead of tubers in detection of latent infection by *Ralstonia solanacearum* in seed potato. Poster paper presented at CGIAR evaluation mission, at CIP-ILRI campus Nairobi, 18<sup>th</sup> July, 2007.
6. Munyiri J.M., Boga HI and **Matiru V.N.** 2007. Enumeration and characterization of indigenous rhizobia infecting Velvet Beans, *Mucuna pruriens*, the the common bean, *Phaseolus vulgaris*, at Karibaribi in Thika district. Paper presented in the 15<sup>th</sup> International Congress on Nitrogen Fixation & 12<sup>th</sup> International Conference of the African Association for Biological Nitrogen Fixation. Cape Town, South Africa 21 - 26 January 2007.
7. Mwangi J. Nyaga, Jefwa M. Joyce and **Matiru V.N.** 2007. Effects of nutrient omission trials on the abundance and diversity of beneficial fungi (mycorrhizae) and pathogenic fungi (*Fusarium* spp). 2nd Annual Scientific Conference of the Faculty of Science, Jomo Kenyatta University of Agriculture and Technology. October 2007.
8. Gatambia Eliud K, **Matiru V.N** and Waiganjo M.M. 2007. Studies in the effects if Aloe (*Aloe barbadensis*) and Pawpaw (*Carica papaya*) in the control of rust (*Uromyces*

*appediculatus*) of French beans. 2nd Annual Scientific Conference of the Faculty of Science, Jomo Kenyatta University of Agriculture and Technology. October 2007.

9. **Matiru V.N.** and Dakora F.D. 2006. Potential use of rhizobial bacteria as promoters of plant growth for increased yield in land races of African cereal crops. Paper presented at the First Annual Scientific Conference of the Faculty of Science, Jomo Kenyatta University of Agriculture and Technology. June 2006.
10. Kebira A.N., Omondi W.O., Lusike D.M, **Matiru V.N.** and Kinya C.M. 2006. A comparative evaluation of broth micro/macro dilution, disc diffusion and agar dilution method in antifungal susceptibility testing of plant extracts. Paper presented at the First Annual Scientific Conference of the Faculty of Science, Jomo Kenyatta University of Agriculture and Technology. June 2006.
11. Dakora F.D, Kanu S and **Matiru V.N.** 2004. Rhizobial exudation of riboflavin and lumichrome: Assessing plant response and the effects of pH and temperature. Paper presented at the 11<sup>th</sup> International conference of the African Association for Biological Nitrogen Fixation, Dakar, Senegal, 22 - 27 November 2004.
12. **Matiru V.N.** and Thomson J.A. 1998. Use of nitrogen fixing bacteria for the growth promotion of Kenyan crops. Book of Abstracts, 17<sup>th</sup> Congress of Microbiological Society of South Africa, Durban South Africa Pg. 49. (July, 1998)

### **Post Graduate Student Supervision Completed (Already graduated)**

#### **Doctoral Thesis**

1. Nyerere Kimang'a. PhD. Thesis entitled: "Epidemiology of *Helicobacter pylori* and factors contributing to its prevalence". 2007.

#### **Master's Thesis**

1. Mukundi Paul Wambugu. MSc. Thesis entitled "Knowledge, attitudes and practices among newly diagnosed tuberculosis patients in selected public hospitals in Nyeri District. (2009).
2. Kaaria Purity. MSc. Thesis entitled: "Potential of bacterial endophytes from indigenous medicinal plants as sources of antimicrobials". (2009)
3. Victor Ndida. MSc. Thesis entitled " Surveillance of surgical site infections at the Aga Khan University Hospital, Nairobi, Kenya (2009)
4. Mounir Lado (MSc in Applied Epidemiology from). Thesis entitled: Patient and Health Service Delay in the Management of Pulmonary Tuberculosis Patients in Central Equitorial State, Southern Sudan, 2007.

5. Mwangi John Kamau. MSc. Thesis entitled: "Strategies for improving seed potato quality and production using positive selection and ELISA techniques in Kenya". 2007.
6. James K. Munyiri. MSc. Thesis entitled: Enumeration and characterization of indigenous Rhizobia infecting *Mucuna pruriens* and *Phaseolus vulgaris* in the soils of Karibaribi, Thika District".2006

#### **Theses submitted awaiting defense**

1. Thurania Mwongera. MSc. Thesis entitled "Use of organic amendments for the control of *Fusarium* wilt in Passion Fruit (*Passiflora* sp). 2007
2. Pamela Muringo Njugu. MSc. Thesis entitled "Determination of antibiotic susceptibility patterns and resistance mechanisms in *Klebsiella* and *Escherichia coli* from environmental and clinical settings. (2009).
3. John Nyaga Mwangi, MSc. Thesis entitled " Effects of arbuscular mycorrhizal fungi (AMF) inoculation and management of indigenous AMF population on the ex-situ performance of maize and beans in Embu and Taita Taveta districts, Kenya.

#### **On going post graduate supervision**

1. Ngamau Catherine. PhD. Thesis entitled: "Prospecting for a biofertilizer in banana bacterial endophytes".
2. Thomas Ondara. MSc. Thesis entitled: "Characterization of the mycorrhizal status of improved cassava (*Manihot esculenta* Crantz) cultivars in different fertilizer regimes in Western Kenya".
3. Alice Wanjiru Mureithi. MSc. Thesis entitled: Isolation and characterization of enteroviruses from children with acute respiratory infection attending Kenyatta National Hospital".
4. Elizabeth Nyambura Mwaura. MSc Thesis entitled: "Mycological investigation of sputum samples from pulmonary tuberculosis patients attending Mbagathi district hospital in Nairobi, Kenya".

### Examination of theses

1. Isaac Kamau Mugoya's MSc. Thesis entitled " Study of nosocomial infections at Embu Provincial General Hospital and PCEA Chogoria Hospital". (2006)
2. Osman Abdikarim Adullahi MSc. Thesis entitled "The descriptive epidemiology of *Streptococcus pneumoniae* nasopharyngeal carriage in Kilifi district". (2006)
3. Munyiri James Muchui's MSc. Thesis entitled "Enumeration and characterization of rhizobia infecting velvet beans *Mucuna pruriens* and the common beans *Phaseolus vulgaris*, at Karibaribi in Thika District". (2006)
4. Festus M. Tolo PhD. Thesis entitled "The antiviral activities of some Kenyan medicinal plants used in traditional medicine: their antiviral activity against human herpesviruses; Herpes simplex virus (Type 1 and 2) and Cytomegalovirus. (2007).
5. Peter Mwaura Mutua. MSc. Thesis entitled: "Isolation and screening of endophytic fungi for biological control of banana nematodes in tissue culture bananas (*Musa* spp). 2008.
6. Catherine Wanjiku Machungo. MSc. Thesis entitled: "Biological control of banana nematodes using fungal endophytes". (2008)
7. Harriet Sande. MSc. Thesis entitled "Mapping *Trichomonas vaginalis* among women living in Kisumu, Kenya". (2008).
8. Grace Mumbi Njeru. MSc. Thesis entitled "Response of local potato varieties to virus infection". (2008).
9. Raphael Kinuthia Mburu. MSc Thesis entitled "Descriptive epidemiology of cervical dysplasia and inflammatory changes in women attending family health options Kenya clinics in Nairobi. (2009).
10. Huxley Mae Makonde. MSc. Thesis entitled "Assessments of effects of *Bacillus thuringiensis* Cry1A(c) $\delta$ -endotoxin in nitrogen fixing bacteria in clay soil in Kenya".(2009)
11. Abuoi Arok Deng. MSc Thesis entitled "Risk factors for acute lower respiratory tract infections in children under 5 years of age in Juba, Southern Sudan. (2009).
12. Martin Kipkogei Lagat. MSc Thesis entitled "Identification of amplified fragment length polymorphism (AFLP) markers linked to maize streak virus (MSV) disease resistance genes". (2009).
13. Kaaria K. Purity. MSc Thesis entitled "Potential of endophytes and rhizosphere bacteria from selected indigenous Kenyan plants around Juja as sources of antimicrobial compounds". (2009).

14. Joyce Chepkurui. MSc Thesis entitled “Factors influencing Tuberculosis control among the Maasai of Narok District – Kenya”.
15. Johnson Mayik Akol. MSc Thesis entitled “ Sero-prevalence and associated factors for HIV and HBV infection in patients attending Juba teaching hospital, South Sudan, 2009”.
16. Alfred Mutu Gitau. MSc Thesis entitled “Mycological infection among patients with diabetic foot ulcers attending diabetic clinic at Kenyatta National Hospital, Kenya”
17. Collins Wabomba Tabu. MSc Thesis entitled “Epidemiology of *Salmonella* bacteremia in a rural community of Western Kenya, 2009”
18. Salome Okutoyi Gitari. MSc Thesis entitled” Aetiology and antimicrobial susceptibility patterns of bloody diarrhea at Tabitha Medical clinic in Kibera, Kenya”
19. Andrew Nyerere Kimang’a. PhD. Thesis entitled “Prevalence of *Helicobacter pylori* infection, the virulence genotypes and host immunological responses in disease outcomes among Kenyan dyspeptic patients” 2010.
20. Caroline Anaye Omukoko. MSc Thesis entitled “Potential for utilization of entomopathogenic fungus *Beauveria bassiana* for control of banana weevil *Cosmopolites sordidus*”.

#### **External examination of thesis**

1. Laubscher C.P. (Cape Peninsula University of Technology, **South Africa**). PhD. Thesis entitled “An eco-tourism and conservation perspective of endangered proteaceae of the Cape Floral Kingdom on the Agulhas Plain. (2009)
2. Ezekiel Mugendi Njeru (**Kenyatta University**) MSc. Thesis entitled “Effects of phosphorus, potassium and sulphur nutrition on nitrogen fixation of promiscuous soybean in Meru South District, Kenya”. (2008)
3. Nicholas Mawira Gitonga. (**Kenyatta University**). MSc Thesis entitled “Nodulation and nitrogen fixation in promiscuous and non promiscuous soybean varieties grown in Kenya” (2009).
4. Maina Peter Kariuki (**Kenyatta University**) MSc. Thesis entitled “Impact of land use on distribution and diversity of *Fusarium* species in Ngangao forest, Taita Taveta district and the adjacent farmlands (2009).

#### **Supervised Fourth year student projects in Plant Pathology and Microbiology**

1. Irene Kaloki. “Efficacy of *Phytoseiulus permisilis* in the control of red spider mites in tomatoes (2009)

2. Eric King'ori. "Phytochemical screening and antimicrobial assay of the leaves, stem and root crude extracts of *Withania somnifera*" (2009)
3. Erastus Njuguna Maina. "Antibiotic resistance profile among food handlers in Nairobi region". (2009)
4. Sharon Mwikali Kitolo. "Prevalence rates and causative agents of urinary tract infections (UTIs) in Machakos District" (2009).
5. Winnie Midika Mugala. "Antimicrobial effects of commonly used species and seasonings on *Escherichia coli* and *Salmonella* species" (2009)
6. Alice Neema Bade. "Microbiological contents of milk" (2009)
7. Bond M. Mwabili. "A study to determine vaginal infections affecting women from ages 12 – 50 in Nairobi West Hospital" (2009).
8. Yvonne N. Muthiani. "Potential fungal skin pathogens in second hand clothes" (2009).
9. Dennis Maritim Kipngetch. "Evaluation of three diagnostic assays for the detection of Hs Ag in Kenya" 2009.
10. John Mutuku Nzau. "Prevalence of *Staphylococcus* species in purulent soft tissues among patients visiting Thika District Hospital" 2009.
11. Enock M. Makori. " A study to determine the pathogenic microbes found in food handlers visiting National Public Health Laboratory services" 2009.
12. Linda Stella Lutta. "Health relevance of the presence of fecal coliforms in iced tea served in restaurants" 2009.
13. Robert Gitahi Kamau "Isolation of *Salmonella* spp and *E. coli* from illicit brew and brewing water" 2009.
14. Dennis Kiprop Ruto " Isolation and characterization of microbial contaminants found on computer keyboards and mice in Juja, JKUAT campus and Thika" 2009.
15. Anastasia Nyambura Maina "Prevalence of HIV among pulmonary TB patients attending the Coast General Provincial Hospital" 2009.
16. Tom K. Torome. "Bactericidal properties of the sun's ultraviolet radiation and the appropriate time of exposure for maximum disinfection of drinking water by use of plastic containers (polyethylene terephthalate; PET). 2008.
17. James Ngumi Njaga."The assessment of bacterial contamination of cutting board". 2008.

18. Yegon C. Zeddy. "Phytochemical and antimicrobial screening of crude extract of root, stem, fruit and leaf of *Solanum nigrum*". 2008.
19. Stanslaus Kiskey Simiyu. "The efficacy of bulk chlorination of drinking water and its effects on the microbial susceptibility to antimicrobial agents. 2008.
20. Nicodemus N.A. Oanda. "Studies on the use of *Tagetes erecta* and *Solanum nigrum* as biofungicides of onion blotch fungus (*Alternaria porri*). (2007).
21. Miriam Wambui Njama. "Isolation identification and characterization of the microbial pathogens found in traditional African brews. (2007)
22. Jackline Mumbi M. Evaluation of microbial load in Kales growing in sewage waste. (2007).
23. Risper Chelagat K. "Assessment of microbial load in fruit salads served in Juja area. (2007).
24. Eliud K. Gatambia. "On the Effects of Aloe, pawpaw leaves extracts and Haxacanazole on the control of rust (*Uromyces appendiculatus*) on French beans. (2007).
25. Ajwang P. Otieno. "Studies on the use of medicinal plant extracts on the control of bacterial wilt and soft rot (*Erwinia carotovora* var *carotovora*) of tomatoes. (2007).
26. Agunda Paul Odhiambo. "Comparative studies in the control of seed borne pathogens of beans (*Phaseolus vulgaris*) using homemade ashes. (2007).
27. Mwangi John Nyaga. Studies on the effect of nutrients omission trials on the abundance and diversity of beneficial fungi (mycorrhizae) and pathogenic fungi (*Fusarium* spp) and general effect on growth of tissue cultured banana. (2007).
28. Hassan Amina Jamila. "Studies on nutrient omission trials on bananas (Giant Cavendish) and their effect on below ground biodiversity. (2007).
29. Habel Jomba. Were. "Studies on the effect of ash and Ridomil on the control of early blight (*Alternaria solani*) of tomatoes. (2007).
30. Menge Dominic. "Antibacterial action of an antibiotic and a metal in a plant tissue culture medium. (2007).
31. Otieno Yonnie Nyakado. "Culture and isolation of pathogenic microflora on infants first stools in the new born unit Kenyatta National Hospital. (2008).
32. Sang Amos K. "Prevalent bacterial causative agents of diarrhea among patients attending Moi teaching and referral hospital Eldoret and their antibiotic sensitivity patterns. (2008).

33. Munene Veronica N. "Isolation and identification of *Staphylococcus aureus* and *Escherichia coli* in street vended mangoes and passion fruit juices" (2008).
34. Muriuki Faith Mukami. "Prevalence of *Staphylococcus aureus* infections in patients attending Mwea mission hospital and its sensitivity to selected antibiotics" (2008).
35. Riaga David O. "To determine the causes of bromohydrosis between the toes of men who wear closed shoes". (2008).
36. Chomba Kenneth. "Prevalence of Schistosomiasis infections in irrigated areas of Kirinyaga district". (2008).
37. Elung'at Justus Ikemeri. "Prevalence of hookworms among patients visiting Kenya medical research institute (KEMRI) Alupe" (2008).
38. Mbaya Helen Kajuju. "Isolation and characterization of bacteria present in different yoghurts". (2008).
39. Kathambi Kathure Ann. "Phytochemical screening and antimicrobial assay of the root and bark crude extracts of *Euphorbia tirucalli*". (2008).
40. Ongute Amango Eric. "Phytochemical analysis, antimicrobial screening and cytotoxicity assay of crude extracts from the stem, flowers and fruits of *Opuntia indica-ficus*(L) Mill". (2008).
41. Mutiso Shadrack Mbithi. Isolation and characterization of antibiotic producing mesophilic bacteria in soils and manure from JKUAT cattle pen. (2008)
42. Mugo Janet Wanjiku. "Effects of different concentrations of disinfectant on development of bacterial resistance". (2008).
43. Mureithi James Mwangi. "Effects of protein endotoxins Cry1ac and Cry2Ab2 expressed in Bt-cotton on the survival and infectivity of the entomo-pathogenic nematode *Steinernema karii* (Nematoda: Steinernematidae)" (2009).
44. Watani Grace Wanjiku. "Evaluation of Rootgard, *Trichoderma asperellum* and Nordox (cuprous oxide) on the control of bulb rot in Arabicum flower (*Ornithogalum saundersiae*)". (2009).
45. Were S. Aringo. "Assessment of fungal contaminants in groundnuts (*Arachis hypogea*) and cowpeas (*Vigna unguiculata*) in Thika and Kisumu markets". (2009).
46. Kabole Mellon Florence. "Effects of organic amendments in the control of *Meloidogyne* spp in lettuce". (2009).
47. Mohamed Rahma Ibrahim. "Analysis of enterobacteriaceae contaminating meat in eating establishments in Nairobi" (2009).

48. Kianja John Maina. "Effects of algal extracts from the genera *Anabaena* spp and *Tolypothrix* spp. for their larvicidal and bactericidal activity" (2009).

## **FUNDED RESEARCH PROJECTS**

### **As principal investigator**

#### **External funding**

Obtained USD 5660 for a research project on bacterial endophytes from USHEPiA.(University of Cape Town (Principal investigator)

#### **Internal funding (from RPE)**

1. Awarded KShs. 4,230,000 by the Research Publication and Printing Committee (JKUAT) for a project entitled "Prospecting for a biofertilizer in banana endophytic bacteria". (Principal investigator)

### **As a collaborator**

1. In a research project entitled "Identification of high quality and high yielding genuine basmati rice and other varieties through physicochemical and molecular characterization. (Funded by RPE; KShs.1,050,000)
2. Kimanga Nyerere Has secured funding for his PhD research project from JKUAT. (Ksh. 600,000). Also got additional funding (Ksh. 800,000from DAAD).
3. James M. Munyi has funding from the Ministry of Agriculture. (Ksh. 600,000)
4. Mwangi John Kamau has already secured funding for his research work from the International Potato Centre (CIP). (800,000)).
5. Thomas Ondara has also secured funding for his MSc research project from the museums of Kenya. (400,000)
6. Thurania Mwangera.has secured funding for his MSc research project from KARI (600,000)
7. Purity Kaaria 150,000 from JKUAT

### **Referees:**

Prof. Catherine W. Muthuri  
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