

## CURRICULUM VITAE

### Prof. Nancy L.M. Budambula

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**Name:** Prof. Nancy L.M. Budambula (Ph.D. MSc. BSc.)  
**Nationality:** Kenyan.  
**Languages:** English, Kiswahili, German  
**Current position:** Professor and Director Board of Postgraduate Studies University of Embu  
**Recognition:** In Who's Who in Science and Engineering 10<sup>th</sup> Anniversary Edition of 2008-2009  
**Contact:** Email [budambula.nancy@embuni.ac.ke](mailto:budambula.nancy@embuni.ac.ke) or [nbudambula@yahoo.com](mailto:nbudambula@yahoo.com)

#### EDUCATIONAL BACKGROUND

1999-2003 **Ph.D.** Microbiology, JKUAT and George-August University Göttingen Germany  
 1991-1993 **MSc.** Genetics. Kenyatta University  
 1988-1991 **BSc.** Botany, Zoology and Geography  
 1986-1987 **A-level.** Kenya High School, Nairobi.  
 1982-1985 **O-level.** Kenya High School, Nairobi.  
 1975-1981 Certificate of Primary Education. Kamimei Primary School, Nandi County

#### PROFESSIONAL EXPERIENCE

##### Teaching experience at the University

**2022 to Present:** Professor, University of Embu  
**2014 to 2021:** Associate Professor, University of Embu  
**2007 to 2014:** Senior Lecturer, Jomo Kenyatta University of Agriculture and Technology (JKUAT).  
**1998 to 2007:** Lecturer Jomo Kenyatta University of Agriculture and Technology (JKUAT).  
**1995 to 1998:** Assistant Lecturer at JKUAT. Taught Genetics based course to undergraduate students in the Department of Botany.

##### Management and Administration

**July 2014 to Present:** Director Board of Postgraduate Studies, University of Embu  
**September 2013 to June 2014:** Dean, School of Biological Sciences- JKUAT  
**February 2013 to August 2013:** Associate Dean, Faculty of Science - JKUAT  
**October 2012 to January 2013:** Acting Associate Dean. Faculty of Science – JKUAT  
**2009 to 2013:** Chairman, Department of Botany 2009 to 2013 - JKUAT

##### Programme Management

**2004 to 2006:** Programme Coordinator. Medical Microbiology Programme -JKUAT  
**1998:** Environment Consultant: Environment Liason Centre International  
**1995 to 1997:** Environment Consultant Kenya Energy and Environment Organizations (KENGO).  
**1994 to 1995:** Project officer at KENGO

## Public Office

**2017 to 2020: Chairperson- Resource Mobilization Committee, University of Embu**

**2016 to 2017: Chairperson- HIV& AIDS Prevention Committee, University of Embu**

**2012 to date: Member-Ministry of Health Task force on genetically modified foods.**

**2010 to 2013: Member -Monitoring and Evaluation Committee Innovation Fund, JKUAT.**

**2009 to 2012: Co-chairperson JKUAT graduation protocol committee**

**2008 to 2012 : Member JKUAT Laboratory Management Board**

**FOCUS RESEARCH AREAS:** Bioprospecting for novel microorganisms from the environment, antibiotic resistance, biotechnology, viral genetics and water pollution

## PUBLICATIONS

1. Muli J.K., Neondo J.O., Kamau P.K., Michuki G.N., Odari E. and **Budambula N.L.M.** (2022). Genetic diversity and population structure of wild and cultivated *Crotalaria* species based on genotyping-by-sequencing. PLoS ONE 17(9): e0272955.  
<https://doi.org/10.1371/journal.pone.0272955>
2. Akoth P., H. M. Makonde, **N.L.M. Budambula** and H. I. Boga (2022). Morphological and molecular characterisation of termite species in Taita Taveta County, Kenya. Journal of Microbiology Research.  
<https://academicjournals.org/journal/AJMR/article-full-text-pdf/A1A8D3068958>
3. Omire, A., Neondo, J., **Budambula, N. L.M.**, Wangai, L., Ogada, S., and Mweu, C. (2022). Genetic diversity and population structure of doum palm (*Hyphaene compressa*) using genotyping by sequencing. *Frontiers in Genetics*. <https://doi.org/10.3389/fgene.2022.762202>
4. Muriuki S.W., M. S. Rengan and **N. L. M. Budambula** (2021). Prokaryotic diversity and potentially pathogenic bacteria in vended foods and environmental samples. *Annals of Microbiology* 71:27  
<https://doi.org/10.1186/s13213-021-01640-w> +
5. Nzivo M. M. and **N. L.M. Budambula** (2021). Mutations and Epidemiology of SARS-CoV-2 Compared to Selected Corona Viruses during the First Six Months of the COVID-19 Pandemic: A Review. *J Pure Appl Microbiol* 15(2):524-533 <https://doi.org/10.22207/JPAM.15.2.19>
6. Muli J.K. , J. O. Neondo , P. K. Kamau , E. Odari and **N. L. M. Budambula** (2021). Phenomic characterization of *Crotalaria* germplasm for crop improvement. *CABI Agric Biosci* (2021) 2:10  
<https://doi.org/10.1186/s43170-021-00031-0>
7. Omire A., **N.L.M. Budambula**, J. Neondo, R. Gituru and C. Mweu (2020). Phenotypic diversity of doum palm (**Hyphaene compressa**), a semi-domesticated palm in the arid and semi-arid regions of Kenya. *Scientifica* <https://doi.org/10.1155/2020/4920830> .
8. Muli J.K., J O. Neondo, P. K. Kamau and **N.L.M. Budambula** (2020). Genetic diversity and use of African indigenous vegetables especially slender leaf. *International Journal of Vegetable Science* <https://doi.org/10.1080/19315260.2020.1829768>.
9. Muriuki S. W., J.O Neondo and **N. L.M. Budambula** (2020). Detection and profiling of antibiotic resistance among culturable bacterial isolates in vended food and soil Samples. *International Journal of Microbiology* <https://doi.org/10.1155/2020/6572693> .
10. Wasonga, M. A., E. E. Arunga, J. O. Neondo, J.K Muli, P.K. Kamau and **N.L.M Budambula** (2020). A hybridization technique for orphan legumes: Development of an artificial interspecific pollination protocol for *Crotalaria* spp. *Journal of Crop Improvement* <https://doi.org/10.1080/15427528.2020.1810189>.

11. Omire, A., Neondo, J., **Budambula, N.**, Gituru, R., & Mweu, C. (2020). *Hyphaene compressa*, an important palm in the arid and semi-arid regions of Kenya. *Ethnobotany Research and Applications* doi: 10.32859/era.20.4.1-15.
12. Mwakha, F., **Budambula, N.**, Neondo, J., Gichimu, B., Odari, E., & Kamau, P. et al. (2020). Witchweed's Suicidal Germination: Can Slenderleaf Help?. *Agronomy*, 10(6), 873. doi: 10.3390/agronomy10060873
13. Omire, A., Neondo, J., **Budambula, N.**, Gituru, R., & Mweu, C. (2020). *Hyphaene compressa*, an important palm in the arid and semi-arid regions of Kenya. *Ethnobotany Research And Applications*, 20. doi: 10.32859/era.20.4.1-15
14. Omire, A., **Budambula, N.**, Kirumbi, L., Langat, H., Kerosi, D., Ochieng, W., & Lwembe, R. (2020). Cervical Dysplasia, Infection, and Phylogeny of Human Papillomavirus in HIV-Infected and HIV-Uninfected Women at a Reproductive Health Clinic in Nairobi, Kenya. *Biomed Research International*, 2020, 1-10. doi: 10.1155/2020/4945608
15. Mwakha, F. A., Gichimu, B.M., Neondo, J.O., Kamau, P.K, Odari, E. O., Muli, J. K., **Budambula, N.L.M** (2020). Agro-Morphological Characterization of Kenyan Slender Leaf (*Crotalaria brevidens* and *C. ochroleuca*) Accessions. Hindawi, *International Journal of Agronomy Volume 2020*, Article ID 2710907, 10 pages <https://doi.org/10.1155/2020/2710907>
16. M. M. Nzivo , R. M. Lwembe, E. O. Odari, J. M. Kang'ethe, and **N. L. M. Budambula** (2019). Prevalence and Risk Factors of Human Herpes Virus Type 8 (HHV-8), Human Immunodeficiency Virus-1 (HIV-1), and Syphilis among Female Sex Workers in Malindi, Kenya. *Interdisciplinary Perspectives on Infectious Diseases* Volume 2019, Article ID 5345161, 8 pages <https://doi.org/10.1155/2019/5345161>
17. Gatimbu K.K., Ogada M.J. and **Budambula N.L.M.** (2019). Environmental efficiency of smallscale tea processors in Kenya: an inverse data envelopment analysis (DEA) approach. *Environment Development and sustainability*. <https://doi.org/10.1007/s10668-019-00348-x>
18. Gatimbu K.K., Ogada, M.J. **Budambula N.** and S. Kariuki (2018). Environmental sustainability and financial performance of the small-scale tea processors in Kenya. <https://doi.org/10.1002/bse.2243>
19. Ghilamicael A.M., **N. L. M. Budambula**, S.E. Anami, T. Mehari and H.I. Boga (2018). Thermotolerant bacteria of biotechnological potential from hot springs in Eritrea. *African Journal of Microbiology Research* 12(22): 512-524. DOI: 10.5897/AJMR2017.8626.
20. Muli J. K., **N. Budambula**, C. Mweu and S. E. Anami (2018). Drought Response in Selected Tropical Inbred Maize Lines and Relative Expression of PARP2 Gene under Limited Water Conditions. *Plant* 6:8-15. doi: 10.11648/j.plant.20180601.12
21. Ghilamicael A.M., H.I. Boga, S. E. Anami, T. Mehari and **N.L.M. Budambula** (2018). Potential human pathogenic bacteria in five hot springs in Eritrea revealed by next generation sequencing. *PLoS ONE* 13(3): e0194554. <https://doi.org/10.1371/journal.pone.0194554>
22. Koech C.C., Lwembe R.M., Odari E.O., **Budambula N.L.M.** (2018). Prevalence and Associated Risk Factors of HTLV/HIV Co-Infection among People who inject Drugs (PWIDs): A Review. *Journal of Human Virology and Retrovirology* 6(1): 00188. DOI: 10.15406/jhvr.2017.06.00188
23. Nzivo M.M., R. Lwembe, E.O Odari and **N.L.M. Budambula NLM** (2017). Human Herpes Virus Type 8 among Female-Sex Workers. *Journal of Human Virology and Retrovirology* 5(6): 00176. DOI: 10.15406/jhvr.2017.05.00176

24. Muli J.K., C. Mweu, **N. Budambula** and S.E. Anami (2017). Yeast Extract Peptone Based Cocultivation Media Promotes Transient GUS Expression in Tropical Maize Genotypes. *Asian Journal of Crop Science* 9:
25. Ghilamicael A.M., **N. L. M. Budambula**, S. E. Anami, T. Mehari and H. I. Boga (2017). Evaluation of Prokaryotic Diversity of Five Hot Springs in Eritrea. *BMC Microbiology* 17:203. <https://doi.org/10.1186/s12866-017-1113-4>.
26. Ghilamicael A.M., H.I. Boga, S. E. Anami, T. Mehari and **N.L.M. Budambula** (2017). Physical and Chemical Characteristics of Five Hot Springs in Eritrea. *Journal of Natural Sciences Research* 7(12): 88-94.
27. Budambula V. and **N. L. M. Budambula** (2017). Chasing the Dragon: Drug Use and Abuse. ISBN: 9789966103024
28. Imbo M.C., **N. L. M. Budambula**, C.M. Mweu, J. K. Muli and S. E. Anami (2016). Genetic Transformation of Sweet Potato for Improved Tolerance to Stress: A Review. *Advances in Life Science and Technology* 49:67-76
29. Muli J.K., N. L. M. Budambula, C. Mweu, M. C. Imbo and S. E. Anami (2016). Genetic Improvement of African Maize towards Drought Tolerance: A Review. *Advances in Life Science and Technology* 48: 1-9.
30. Muwawa E.M, **N. L. M. Budambula**, Z. L. Osiemo, H. I. Boga and H.M. Makonde (2016). Isolation and characterization of some gut microbial symbionts from fungus-cultivating termites (Macrotermes and Odontotermesspp). *African Journal of Microbiology Research* 10:994-1004 DOI: 10.5897/AJMR2016.8060.
31. Missiani O., J. H. Kimotho, J. Oyugi, F. Okoth, H. Kioko, S. Mining, **N. L. M. Budambula**, E. Giles, A. Andonov, E. Songok and C. Osiowy (2016). Hepatitis B infection is highly prevalent among patients presenting with jaundice in Kenya. *BMC Infectious Diseases* 16:101 DOI 10.1186/s12879-016-14092
32. Kerosi D.O., **N. L.M. Budambula**, E. Odari, R. Lihana, S. Osman, A. Omire, H. Langat, R. Aman and R. Lwembe (2015). Human Immunodeficiency Virus -1 and Hepatitis B Virus Co-Infections among Injecting Drug Users in Malindi, Kenya. *Journal of Biology, Agriculture and Healthcare* 5 (22): 45-50
33. Kiama C., **N. L.M Budambula**, S. Okoth, R. Kagali and V. Matiru (2015). Cultural Characterization of Fungi Isolated From Oil Contaminated Soils. *Journal of Biology, Agriculture and Healthcare* 5: 16-21
34. Onchwari R. G., **N. L. M. Budambula**, H.M. Makonde, J. Mugweru, V.N. Matiru (2015). Potentially beneficial rhizobacteria associated with banana plants in Juja, Kenya. *Journal of Biodiversity and Environmental Sciences* 7:181-188
35. Webale M.K., V. Budambula, R. Lihana, F.O. Musumba, A. K. Nyamache, **N. L. M. Budambula**, A. A. Ahmed, C. Ouma and T. Were (2015). Hepatitis B virus sero-profiles and genotypes in HIV-1 infected and uninfected injection and Non-injection drug users from coastal Kenya. *BMC Infectious Diseases* 15:299. DOI 10.1186/s12879-015-1060-3
36. Odari E.O, **N.L.M Budambula** and H. Nitschko (2014). Evaluation of an Antigen-Antibody “Combination” Enzyme Linked Immunosorbent Assay for Diagnosis of Hepatitis C Virus Infections. *Ethiopian Journal of Health Sciences* 24: 343-352.
37. Omire A., **N. Budambula**, W. Ochieng, C. Baliach, D. Kerosi, H. Langat, M. Okemwa, L. Kirumbi, R. Aman, B. Ogutu and R. Lwembe (2014). Assessment of Risk Predisposition to Human Papilloma Virus through Cervical Infections Screening of Women Attending an Outpatient Health Facility in Nairobi, Kenya. *Journal of Biology, Agriculture and Healthcare* 4: 28-36
38. Muwawa E.M., H.M. Makonde, **N.L.M. Budambula**, Z.L. Osiemo and H.I. Boga (2014). Chemical properties associated with guts, soil and nest materials of *Odontotermes* and *Macrotermes* species from Kenya. *Journal of Biodiversity and Environmental Sciences* 4: 253-263

39. Odari E. O., S. G. Odhiambo and **N. L. M. Budambula (2014)**. Laboratory surveillance of cholera in Nyanza Province. *Journal of Agriculture, Science and Technology*. 16 (1):79-91.
40. Njire M.M., **N. L. M. Budambula** and J. Kiiru (2014). Antimicrobial activity of *Warbugia ugandensis* against Gram-negative Multi-drug resistant bacteria. *Journal of Agriculture, Science and Technology*. 16(2): 45-57
41. Ogot H. A, H. I Boga, **N. Budambula**, M.Tsanuo, D.O. Andika and H. J, Ogola (2013). Isolation, characterization and identification of roundup degrading bacteria from the soil and gut of *Macrotermes michaelseni*. *International Journal of Microbiology and Mycology* 1:31-38.
42. Ogot H.A., H. I Boga, **N. Budambula**, M. Tsanuo and D.O.Andika (2013). Isolation, characterization and identification of Diazinon degrading bacteria from the soil and gut of *Macrotermes* *Journal of Biodiversity and Environmental Sciences* 3: 70-79.
43. Ronoh R.C., **N.L.M.Budambula**, R.K. Mwirichia and H.I. Boga (2013). Isolation and Characterization of Actinobacteria from Lake Magadi, Kenya. *African Journal of Microbiology Research* 7: 4200-4206.
44. Kwange S.O., **N. L.M. Budambula**, M. K. Kiptoo, F. Okoth, M. Oduor, J. M. Ochwoto and J. H. Kimotho (2013). Hepatitis B virus subgenotype A1, occurrence of subgenotypeD4 and S gene mutations among voluntary Blood Donors in Kenya. *Virus Genes* 47: 448-455
45. Muhonja C., **N. Budambula**, J. Kiiru and S. Kariuki (2012). Characterization of antibiotic resistance in environmental enteric pathogens from Kibera slum in Nairobi-Kenya. *Journal of Bacteriology Research* 4: 46-54.
46. Kwange S.O. and **N.L.M. Budambula (2010)**. Effectiveness of antituberculosis treatment among patients receiving highly active antiretroviral therapy at Vihiga District Hospital in 2007. *Indian Journal of Medical Microbiology* 28: 21-25.
47. Mwirichia R.K., **N. M.Budambula** and H.I. Boga (2009). Isolation, characterization and identification of *Enterobacteriaceae* from well water in Juja Town in Kenya. *Journal of Tropical Microbiology and Biotechnology* 5:31-36.
48. **Budambula** N.L.M., E.C. Mwachiro and N.M. Gitonga (2006). Antibiotic resistance of bacteria isolated from Nairobi River. *Asian Journal of Microbiology, Biotechnology and Environmental Science* 8: 912.
49. **Budambula** N.L.M. and E.C. Mwachiro (2006). Isolation and characterization of naphthalene utilising bacteria from Nairobi River. *Asian Journal of Microbiology, Biotechnology and Environmental Science*. 8: 1-8.
50. **Budambula** N.L.M and E.C. Mwachiro (2006). Metal status of Nairobi River Waters and Bioaccumulation of Metals in *Labeo Cylindricus*. *Water, Air and Soil Pollution* 169:275-291.
51. **Budambula** N.L.M.,E.C. Mwachiro, N.M. Gitonga and S. Kariuki (2004). Isolation of Mercury, Zinc and Cadmium resistant bacteria from Nairobi River. *Proceedings of the 2<sup>nd</sup> Regional Microbiology Conference Recent advances in microbial research and their implications to Health, Agriculture and Environment*. Pages 181-190.
52. **Budambula** N and P. Wangari (1998) *Proceedings of the International workshop on Women and Desertification*. Environmental Liason International Centre.
53. **Budambula** N. (1995). *Implementing the Desertification Convention: The Kenyan Experience*. The Network.

## SELECTED CONFERENCE PAPERS

1. Wasonga M.A., E.E. Arunga, J.K. Muli and **N.L.M. Budambula (2022)**. Improvement of Edible *Crotalaria Spp* Through Artificial Pollination. The 8<sup>th</sup> International Conference on Agricultural and Biological Sciences (ABS 2022) & (ABB 2022) the 5<sup>th</sup> International Conference on Applied Biochemistry and Biotechnology.
2. Poster Presentation: Nzivo, M.M, Lwembe, R.M., Odari, E.O and **Budambula N.L.M. (2019)**. Prevalance and Risk factors of Human Herpes Virus Type 8, Human Immunodeficiency Virus and Syphilis among Female Sex Workers in Malindi Sub-County, Kenya. 3<sup>rd</sup> Annual Early-Career Health Researchers' Symposium.
3. Poster presentation: Nzivo, M.M, Lwembe, R.M., Odari, E.O and **Budambula N.L.M. (2017)**. Correlates of HHV-8, HIV and syphilis among female sex workers in Malindi Sub-County,
4. Kinyua D.M and **N.L.M Budambula (2013)**. Antibiotic resistance of metal tolerant bacteria isolated from soil in Juja, Kenya. JKUAT Scientific, Technological and Industrialization Conference November
5. Njire M.M., **N.L.M. Budambula** and J.N. Kiiru (2010). Antimicrobial effects of selected herbal extracts on Multi-drug resistant Gram-negative bacterial strains. Proceedings of the 2010 JKUAT Scientific, Technological and Industrialization Conference. Pages 131-138
6. Ndegwa D.W, **N.L.M. Budambula**, S. Kariuki, G.Revathi and J.N. Kiiru (2010). Aminoglycoside modifying enzymes detected in strains of *Escherichia*, *Klebsiella*, *Pseudomonas* and *Acinetobacter* implicated in invasive infections in Nairobi Kenya. Proceedings of the 2010 JKUAT Scientific, Technological and Industrialization Conference. Pages 109 -119
7. Wahiu F. W. and **N.L.M. Budambula (2007)**. Characterization of bacterial contaminants in milk hawked at Kahawa West. Proceedings of the 2007 JKUAT Scientific, Technological and Industrialization Conference. Pages 292-302.
8. Nzau B., S. Kariuki and **N.L.M .Budambula (2007)**. Antimicrobial resistance in *Salmonella enterica* serotype typhimurium and *Salmonella enterica* serotype enteritidis. Proceedings of the 2007 JKUAT Scientific, Technological and Industrialization Conference. Pages 227-233.

## STUDENT/THESES SUPERVISION

### Doctor of Philosophy Students

#### 1. **Amanuel Menghs Ghilamicael Graduated**

Prokaryotic Diversity and Thermozyms from Thermophilic Bacteria from Hot Springs in Eritrea.

#### 2. **Kiende Karambu Gatimu Graduated**

Sustainability of the Small-Scale Holder Tea Enterprise in Kenya

#### 3. **Peter Onkware on going**

Mycobacteria and bacterial coinfections among patients at Kenyatta National Hospital and their susceptibility to antibiotics and selected plant extracts.

#### 4. **Joshua Kiilu Muli Graduated**

Genetic Diversity of *Crotalaria Brevidens* (Mitoo), an Economically Important Medicinal Vegetable.

#### 5. **Samwel Morris Lifumo Symekher on going**

Molecular Epidemiology and Evolution of Human Influenza B Viruses from Patients With Acute Respiratory Infections in Nairobi, Kenya, 2005 – 2016.

**6. Jusine Majau Miriti on going**

Effectiveness of f Performance Appraisal on Employee Performance. A Case of Management Employees in Public Teachers' Training Colleges in Kenya

**7. Agnes Omire on going**

Diversity and salinity induced transcriptomics in doum palm (*Hyphaene compressa*)

**8. Edinah Ongaga on going**

Microbial Diversity and Bioactivity of Kenyan *Crotalaria* Species

**Master of Science Students****1. Romano K. Mwirichia graduated**

Isolation and Characterization of Enterobacteriaceae from Well water in Juja town and its

**2. Ogot O. Hellen graduated**

Isolation, characterization and identification of pesticide degrading bacteria isolated from the soil and intestinal

**3. Eddy Okoth Odari graduated.**

Evaluation of a “combination” Elisa Kit and genotyping performance of restriction fragment length polymorphism among Hepatitis C virus infected patients' sera.

**4. Moses Mucugi Njire graduated**

Antimicrobial effects of selected herbal extracts on clinical multi-drug resistant Gram-negative bacteria.

**5. Doris Wangari Ndegwa graduated**

Characterisation of aminoglycoside resistant bacterial strains implicated in invasive infections in Kenya.

**6. Regina Ronoh graduated**

Genetic diversity of actinobacteria in Lake Magadi.

**7. Christabel Muhonja graduated**

Characterisation of antibiotic resistance among environmental enteric pathogens in Gatwekera village of Kibera slum-Kenya.

**8. Simeon Kwange Owour graduated**

Distribution of Hepatitis B virus genotypes and frequency of its mutants among Blood Donors in selected regional blood transfusion centres in Kenya

**9. Edith Mnyazi Muwawa graduated**

Assessment of dynamics of nitrogen species and microsymbionts in soils, guts and nest materials of termites.

**10. Agnes Omire graduated**

Genetic variability of the Human Papillomavirus among HIV positive and HIV negative women attending reproductive health clinic at KenyattaNationalHospital.

**11. Ruth Gechemba Onchwari graduated**

Isolation and characterization of Rhizosphere bacteria from banana plants within juja with potential to improve plant growth.

**12. Kerosi Danvas Ongwacho graduated**

Genetic variability of Human immunodeficiency virus and Hepatitis B among HIV/Hepatitis BC coinfecting intravenous drug users in Malindi.

**13. Paulyne Akoth graduated**

Genetic Diversity and Distribution of Termites in Taita Taveta County.

**14. Joshua Kiilu Muli graduated**

Transgenic maize overexpressing PARP hairpin construct for drought stress tolerance.

**15. Mary Claire Imbo graduated**

Competence to agrobacterium mediated transformation and expression analysis of NUDX gene in eight selected farmer preferred sweet potato genotypes.

**16. Mirriam Nzivo graduated**

Characterization of Human Herpes Virus Type 8 among Female Commercial Sex Workers in Malindi, Kenya. Kenya.

**18. Caroline Koech graduated**

Characterization of human T-cell lymphotropic virus among intravenous drug users in Malindi, Kenya.

**19. Grace Mutua on going**

Relationship between genital Human Papillomavirus infections and prostate cancer in patients attending the urology clinic at Kenyatta National Hospital.

**20. Fridah Mwakha graduated**

Agro-morphological characterization of *Crotalaria spp* accessions and their ability to induce suicidal germination of *Striga hermonthica* seeds.

**21. Susan Muriuki graduated**

Bacterial food contaminants in fast food and the surrounding environment in Embu Town, Kenya.

**22. Mercy Wasonga graduated**

Inheritance patterns of morphological characters and the karyotype of *Crotalaria* species in Kenya.

**23. Brenda Odoi ongoing**

The Prokaryotic Seed Microbiome of *Crotalaria* Species in Kenya.

**III) TWENTY FIVE (35) BACHELOR OF SCIENCE RESEARCH PROJECTS**

Details available on request.

**IV) POSTGRADUATE EXAMINER**

of more than 85 postgraduate theses. **details available on request**

**V) UNDERGRADUATE EXTERNAL EXAMINER**

for one of the old public universities in Kenya. **details available on request**

**VI) JOURNAL ARTICLE REVIEWER**

Article reviewer for several journals from different publishers, details are available on request.