

CURRICULUM VITAE

Prof. Nancy L.M. Budambula

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 10th Anniversary Edition of 2008-2009
Contact: Email budambula.nancy@embuni.ac.ke or 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. Jelagat, J., **Budambula, N. L.**, Ngari, M., & Budambula, V. (2023). Polydrug Use among Students in a Public University in a Lower Middle-Income Country. *BioMed Research International*. <https://doi.org/10.1155/2023/8085588>
2. Nzivo M. M., C.N. Waruhiu,²J. M. Kang'ethe,³and **N. L. M. Budambula** (2023). HIV Virologic Failure among Patients with Persistent Low-Level Viremia in Nairobi, Kenya: It Is Time to Review the >1000 Virologic Failure Threshold. *BioMed Research International* <https://doi.org/10.1155/2023/8961372>
3. Muli J.K., Neondo J.O., Kamau P.K., Michuki G.N., Odari E. and **N.L.M. Budambula** (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>
4. 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>
5. 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>
6. 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>
7. 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>
8. 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>
9. 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> .

10. 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>.
11. 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> .
12. 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>.
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* doi: 10.32859/era.20.4.1-15.
14. 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
15. 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
16. 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
17. 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>
18. 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>
19. 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>
20. 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>
21. 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.
22. 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

23. 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>
24. 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
25. 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
26. 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:
27. 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>.
28. 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.
29. Budambula V. and **N. L. M. Budambula (2017)**. Chasing the Dragon: Drug Use and Abuse. ISBN: 9789966103024
30. 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
31. 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.
32. 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.
33. 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
34. 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
35. 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
36. 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
37. 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
38. 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.
 39. 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
 40. 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
 41. 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.
 42. 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
 43. 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.
 44. 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.
 45. 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.
 46. 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
 47. 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.
 48. 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.
 49. 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.
 50. **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.
 51. **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.
 52. **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.

53. **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 2nd Regional Microbiology Conference Recent advances in microbial research and their implications to Health, Agriculture and Environment.* Pages 181-190.
54. **Budambula N and P. Wangari (1998)** *Proceedings of the International workshop on Women and Desertification.* Environmental Liason International Centre.
55. **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
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. 3rd 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 Kenyatta National Hospital.

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.