

CURRICULUM VITAE

1 PERSONAL INFORMATION

Name: ELIUD NYAGA MWANIKI NJAGI
Address: Department of Biochemistry, Microbiology and Biotechnology,
Kenyatta University,
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Nairobi, Kenya
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2 ACADEMIC QUALIFICATIONS

University Education

- 2016:** MBA in **Strategic Management**, School of Business and Economics, Moi University, Eldoret, Kenya
Factors Influencing Customer Orientation of Frontline Employees in Public Universities: A Case of Kenyatta University.
- 1991:** PhD in **Biochemistry**; University of London, UK
Tryptophan metabolism in Schistosomiasis; Department of Biochemistry and Molecular Biology, University College and the Middlesex School of Medicine, University of London, London, UK.
- 1989:** MSc in **Biochemistry**, University of Nairobi, Nairobi, Kenya
Transport and metabolism of proline and tricarboxylic acid cycle intermediates by isolated flight muscle mitochondria of the Tsetse fly, *Glossina morsitans*; Department of Biochemistry, University of Nairobi, Nairobi, Kenya.
- 1983:** BSc in **Biochemistry & Chemistry**, University of Nairobi, Nairobi, Kenya

Secondary Education

- 1978:** East African Advanced Certificate of Education (EAACE), Thika High School, Thika, Kenya
- 1976:** East African Certificate of Education (EACE), St Paul's High School, Kevote, Embu, Kenya

Primary Education

- 1972:** Certificate of Primary Education (CPE), AC Kathari Primary School, Kyeni, Embu, Kenya

3 EMPLOYMENT HISTORY

2010 to date

Professor, Department of Biochemistry, Microbiology and Biotechnology, Kenyatta University since 23rd December 2010 - PF/No: 5718.

Duties: Preparing course outlines, teaching, setting and marking examinations for under-graduate students taking Biochemistry, Biotechnology, Molecular and Cellular Biology, and Forensic Science as a requirement for their Bachelor of Science (BSc), Bachelor of Medicine and Bachelor of Surgery (MBChB), and Bachelor of Pharmacy (BPharm) degree programmes and post-graduate students taking

Fermentation Technology, Advanced Laboratory Techniques, Laboratory Data Management, Microbial Biotechnology, and Industrial Biotechnology as a requirement for their Master of Science degree programmes (Master of Science in Biochemistry, Master of Science in Medical Biochemistry, Master of Science in Biotechnology); Writing of Research Proposals and Execution, and Writing of Technical and Financial Reports (Accounting for Research Funding); Supervision of Postgraduates; Student Advisor and Mentor; Administration - Member of several Standing and *Ad hoc* University Committees. Programme Leader of Biochemistry.

2003 - 2010

Associate Professor, Department of Biochemistry and Biotechnology, Kenyatta University from 4th September 2003 to 22nd December, 2010 - PF/No: 5718.

Duties: Preparing course outlines, teaching, setting and marking examinations for under-graduate students taking Biochemistry, Biotechnology, Molecular and Cellular Biology, and Forensic Science as a requirement for their Bachelor of Science (BSc), Bachelor of Medicine and Bachelor of Surgery (MBChB), and Bachelor of Pharmacy (BPharm) degree programmes and post-graduate students taking Fermentation Technology, Advanced Laboratory Techniques, Laboratory Data Management, Microbial Biotechnology, and Industrial Biotechnology as a requirement for their Master of Science degree programmes (Master of Science in Biochemistry, Master of Science in Medical Biochemistry, Master of Science in Biotechnology); Writing of Research Proposals and Execution, and Writing of Technical and Financial Reports (Accounting for Research Funding); Supervision of Postgraduates; Student Advisor and Mentor; Administration - Member of several Standing and *Ad hoc* University Committees.

1994 - 2003

Senior Lecturer, Department of Biochemistry and Biotechnology, Kenyatta University from 7th February 1997 to 3rd September, 2003 - PF/No: 5718.

Duties: Preparing course outlines, teaching, setting and marking examinations for under-graduate students taking Biochemistry, Biotechnology, Molecular and Cellular Biology, and Forensic Science as a requirement for their Bachelor of Science (BSc), Bachelor of Medicine and Bachelor of Surgery (MBChB), and Bachelor of Pharmacy (BPharm) degree programmes and post-graduate students taking Laboratory Techniques, Laboratory Data Management, Microbial Biotechnology, and Industrial Biotechnology as a requirement for their MSc degree programmes (Master of Science in Biochemistry, Master of Science in Medical Biochemistry, Master of Science in Biotechnology); Writing of Research Proposals and Execution, and Writing of Technical and Financial Reports (Accounting for Research Funding); Supervision of Postgraduates; Student Advisor and Mentor; Administration - Member of several Standing and *Ad hoc* University Committees.

Senior Lecturer, Department of Biochemistry, University of Nairobi from 13th October 1994 to 6th February, 1997- PF/No: CN/12880/54.

Duties: Preparing course outlines, teaching, setting and marking examinations for under-graduate students taking Biochemistry as a requirement for their Bachelor of Science (BSc), Bachelor of Medicine and Bachelor of Surgery (MBChB), Bachelor of Dental Surgery (BDS), Bachelor of Science in Nursing (BScNur) and Bachelor of Pharmacy (BPharm) degree programmes and post-graduate students taking Biochemistry and Neurochemistry as a requirement for their MSc degree programmes (Master of Science in Biochemistry, Master of Medicine in Psychiatry (Neurochemistry), Master of Science in Animal Production, and Master of Science in Medical Parasitology); Writing of Research Proposals and Execution, and Writing of Technical and Financial Reports (Accounting for Research Funding); Supervision of postgraduates.

1991 - 1994

Lecturer, Department of Biochemistry, University of Nairobi from 26th April, 1991 to 12th October, 1994 - PF/No: CN/12880/54.

Duties: Preparing course outlines, teaching, setting and marking examinations for under-graduate students taking Biochemistry as a requirement for their Bachelor of Science (BSc), Bachelor of Medicine and Bachelor of Surgery (MBChB), Bachelor of Dental Surgery (BDS), Bachelor of Science in Nursing (BScNur) and Bachelor of Pharmacy (BPharm) degree programmes and post-graduate students taking Biochemistry and Neurochemistry as a requirement for their MSc degree programmes (Master of Science

in Biochemistry, Master of Medicine in Psychiatry (Neurochemistry), Master of Science in Animal Production, and Master of Science in Medical Parasitology); Writing of Research Proposals and Execution, and Writing of Technical and Financial Reports (Accounting for Research Funding); Supervision of postgraduates.

1989 - 1991

Tutorial Fellow, Department of Biochemistry, University of Nairobi from 12th September 1989 to 25th April 1991 - PF/No: CN/12880/54.

Duties: Preparing course outlines, teaching, setting and marking examinations for under-graduate students taking Biochemistry as a requirement for their Bachelor of Science degree programmes.

1990

Demonstrator, Department of Biochemistry and Molecular Biology, University College and the Middlesex School of Medicine, University College London, University of London, London, UK from January to March, 1990.

1988 - 1989

Graduate Assistant, Department of Biochemistry, University of Nairobi from 1st November, 1988 to 11th September, 1989.

1988

Demonstrator, Department of Biochemistry and Molecular Biology, University College and the Middlesex School of Medicine, University College London, University of London, London, UK from January to March, 1988.

1986

Demonstrator, Department of Biochemistry, University of Nairobi from July to October, 1986.

4 PATENTS/UTILITY MODELS/INNOVATIONS

WAHOME W AMY, **ELIUD NM NJAGI**, JOSEPH JN NGERANWA and PETER K GATHUMBI (2015) **Herbal Extract for Management of Diabetes. KE/U/2015/552**

5 RESEARCH PUBLICATIONS

5.1 Articles in Refereed Journals

1. KENNEDY K YEGO, **ELIUD NM NJAGI**, GEORGE O ORINDA and JOSEPH K GIKUNJU (2022). Snake-antivenom activities of aqueous extracts of *Amaranthus spinosus* L. against *Naja subfulva* venom. International Journal of Innovative Science and Research Technology, 7 (12): 1489-1493 [December 2022]
2. ROSALINE DAISY KARIMI, JOSEPH JN NGERANWA, **ELIUD NM NJAGI** and SAM KARIUKI (2022). The bacterial flora of *Oreochromis niloticus* and *Clarias gariepinus* from earthen ponds in Sagana and Masinga, Kenya. International Journal of Bonorowo Wetlands, 12: 63-73 [December 2022].
3. WAMBUGU N ENOC, MWONJORIA JK MAINA and **NJAGI ELIUD** (2022). Methanol extracts of *Vernonia amygdalina* Del increase the sex ratio of offspring in *Rattus norvegicus* rats. The Journal of Phytopharmacology, 11 (4): 233-242 [August 2022].
4. REGINA W MBUGUA, **ELIUD M NJAGI**, CHRISPUS M NGULE and PETER G MWITARI (2022). *In vitro* antiproliferative studies of selected medicinal plants on cancerous and normal cells. European Journal of Medicinal Plants, 33(10): 1-10 [August 2022].

5. GUYA SO, **NJAGI ENM**, GUANTAI AN, LANG`AT-THORUWA CC, MURILLA G, KURGAT R, OKOTH S, CHEMULIT J and MULEKE CI (2022). *In vitro* activity of medicinal plant crude extract and *in vivo* toxicity testing of dichloromethane root extract of *Citrus limon* in laboratory rabbits. Journal of Scientific Research & Reports, 28 (8): 25-56 [June 2022].
6. GUYA SO, **NJAGI ENM**, GUANTAI AN, LANG`AT-THORUWA CC, YENESEW A, MDACHI R, AUMA JE, PETER O, CHEMULIT J and MULEKE CI (2022). *In vitro* antiplasmodial activities of crude extracts and compounds derived from selected indigenous medicinal plants used traditionally to treat malaria in Kenya. Journal of Scientific Research and Reports, 28 (5): 35-58 [May 2022].
7. RICHARD M GITIMU, STANLEY K WAITHAKA, JOSEPH K GIKUNJU and **ELIUD NM NJAGI** (2022). Reference intervals for **fasting** lipid profiles for the adult and geriatric population of Taita-Taveta County, Kenya. World Journal of Pharmaceutical and Life Science, 8 (3): 1-14 [April 2022].
8. SUSAN NYAWIRA KIMUNI, STEPHEN MAINA GITAHI, **ELIUD MWANIKI NJAGI**, MATHEW PIERO NGUGI (2021). Antinociceptive potential of methanol leaf extracts of *Cissampelos parreira* (Linn), *Lantana camara* (Linn) and *Ocimum gratissimum* (African Basil). Journal of Advanced Biotechnology and Experimental Therapeutics, 4 (3): 349-364 [July 2021].
9. DINAH J SAWE, **ELIUD NM NJAGI**, ALICE N MUCHUGI, MOSES NDIEMA (2021). *In vivo* hypoglycemic activity of aqueous extracts of *Chasmanthera dependens* in alloxan induced diabetic mice. Open Journal of Applied Sciences, 11: 832-845 [July 2021].
10. REGINA WANGUI KAMUHU, BEATRICE MUGENDI, JUDITH KIMIYWE and **ELIUD NJAGI** (2021). Effects of healthy diet plus peanut consumption on fasting lipid profile on HIV-infected adults in Nyeri County, Kenya: Randomized crossover study. Journal of Nutrition Fasting and Health, 9 (3): 212-220 [May 2021].
11. REGINA KAMUHU, BEATRICE MUGENDI, JUDITH KIMIYWE and **ELIUD NJAGI** (2021). Cardiovascular disease risk factors in HIV-infected adults in Nyeri County, Kenya. International Journal of Health Sciences and Research, 11 (5): 117-124 [May 2021].
12. REGINA KAMUHU, BEATRICE MUGENDI, JUDITH KIMIYWE and **ELIUD NJAGI** (2020). Effect of peanut consumption on nutritional status indices of HIV infected adults in Nyeri County, Kenya. World Journal of Nutrition and Health, 8 (1): 22-27 [December 2020].
13. GABRIEL KISHOYIAN, **ELIUD NM NJAGI**, GEORGE O ORINDA, FRANCIS T KIMANI, KEVIN THIONGO and DAMARIS MATOKE-MUHIA (2020). Efficacy of Artemisinin-Lumefantrine for treatment of uncomplicated malaria after more than a decade of its use in Kenya. Epidemiology and Infection, 149, e27: 1-9 [December 2020].
14. MUNENE I MOSES, **MWANIKI NE NYAGA**, and PIERO N MATHEW (2020). Antinociceptive effects of methanolic extracts of *Pistacia aethiopica* and *Warbugia ugandensis* in mice. The Journal of Phytopharmacology, 9 (5): 300-307 [September 2020].
15. RICHARD M GITIMU, JOSEPH K GIKUNJU, STANLEY K WAITHAKA, and **ELIUD NM NJAGI** (2020). Trimester related reference interval limits for hematological parameters for pregnant women of Taita-Taveta County, Kenya. Advance Medical and Clinical Research, 1 (2): 5-15 [November 2020].
16. RICHARD M GITIMU, JOSEPH K GIKUNJU, STANLEY K WAITHAKA, and **ELIUD NM NJAGI** (2020). Reference intervals for serum biochemistry analytes for pregnant mothers of Taita-Taveta County, Kenya. International Journal of Research and Scientific Innovation (IJRSI), VII (V); 123-131 [May 2020].

17. RICHARD M GITIMU, JOSEPH K GIKUNJU, STANLEY K WAITHAKA, and **ELIUD NM NJAGI (2020)**. Reference interval for body mass index, and vital signs for infants, children, adolescents, adults and geriatric population of Taita-Taveta County, Kenya. *International Journal of Research and Scientific Innovation (IJRSI)*, VII (V): 16-24 [May 2020].
18. GIDEON K NJOROGI, NICHOLAS K GIKONYO, PIERO M NGUGI and **ELIUD NM NJAGI (2020)**. *In vivo* glycemic and toxicity effects of aqueous extracts of *Urtica massaica*. *International Journal of Medicine and Pharmaceutical Sciences (IJMPS)*, 10 (3): 35-44 [June 2020].
19. REGINA KAMUHU, BEATRICE MUGENDI, JUDITH KIMIYWE and **ELIUD NJAGI (2019)**. Proximate analysis of raw and roasted groundnut (*Arachis hypogaea* L.): Red Valencia and manikanta varieties. *International Journal of Food Science and Nutrition*, 4 (4): 191-194.
20. REGINA WACHUKA MBUGUA, **ELIUD MWANIKI NJAGI**, CHRISPUS MUTUKU NGULE and PETER MWITARI (**2019**). Gene expression mediated antiproliferative potential and safety of selected medicinal plants against cancerous and normal cells. *BioRxiv* doi: <https://doi.org/10.1101/578948>
21. GABRIEL KISHOYIAN, **ELIUD NM NJAGI**, GEORGE O ORINDA, FRANCIS T KIMANI, KEVIN THIONGO and DAMARIS MATOKE-MUHIA (**2019**). Molecular monitoring of *Plasmodium falciparum* resistance to Sulfadoxine-Pyrimethamine in Western Kenya, 14 years after its withdrawal. *Annals of Medical and Health Sciences Research*, 9 (4): 633-639.
22. GABRIEL M KISHOYIAN, **ELIUD NM NJAGI**, GEORGE O ORINDA, KEVIN THIONGO, FRANCIS T KIMANI, and DAMARIS MATOKE-MUHIA (**2019**). Clinical efficacy of Artemisinin-Lumefantrine and status of antifolate drug resistance markers in western Kenya. *Research Square*, DOI: 10.21203/rs.2.19382/v1
23. NJANGIRU IK, **NJAGI EMN** and NGERANWA JJN (**2019**). Bioscreening for hypoglycemic potential of aqueous extract of *Tridax procumbens* in mice model. *Journal of Medical Research and Health Sciences*, 2 (10): 726-732.
24. STANLEY K WAITHAKA, **ELIUD N NJAGI** and JOSEPH N NGERANWA (**2019**). Interpretational tool for fertility hormonal profile established from a healthy adult Kenyan population. *Asian Journal of Medical Sciences*, 10 (2): 6-12.
25. LUCY NYOKABI KIMANI, **ELIUD NM NJAGI** and STANLEY KING'E WAITHAKA (**2019**). Reference ranges for glycosylated haemoglobin and the correlation between glycosylated haemoglobin levels and random blood glucose, hemoglobin and its related red blood cell indices. *International Journal of Scientific and Research Publications*, 9 (1): 167-171.
26. KAINYU RM, KIRUKI S, **NJAGI ENM** and GEORGE O (**2019**). Pediatric reference values for some renal biochemistry tests in Meru County, Kenya. *Journal of Biochemistry and Molecular Medicine*, 1 (1): 25-30.
27. NJERU ZG, NJANGIRU IK and **NJAGI ENM (2019)**. Hypoglycemic potential and safety of aqueous extract of *Aspilia mossambicensis* in alloxinised diabetic mice. *Journal of Medical Research and Health Sciences*, 2 (3): 561-570.
28. GABRIEL KISHOYIAN, **ELIUD NM NJAGI**, GEORGE O. ORINDA and FRANCIS T. KIMANI (**2018**). Chloroquine sensitivity and prevalence of Chloroquine-resistant genes *pfcr1* and *pfmdr-1* in Western Kenya after two decades of Chloroquine withdrawal. *Annals of Medical and Health Sciences Research*, 8: 331-335.
29. WABAI W YVONNE, MWONJORIA JK MAINA and **NJAGI E MWANIKI (2018)**. Teratogenic potential of *Urtica massaica* (Mildbr.) and *Croton megalocarpus* (Hutch) in mice. *The Journal of Phytopharmacology*, 7 (6): 460-463.

30. DAVID NZIOKA MUTUA, **ELIUD NM NJAGI** and GEORGE ORINDA (2018). Hematological profile of normal pregnant women. Journal of Blood and Lymph, 8: 210. doi:10.4172/2155-9538.1000214.
31. DAVID NZIOKA MUTUA, **ELIUD NM NJAGI** and GEORGE ORINDA (2018). Liver function tests in normal pregnant women: A review. Journal of Liver, DOI: 10.4172/2167-0889.1000228.
32. FLORENCE W NGARI, NICHOLAS K GIKONYO, **ELIUD NM NJAGI** and RUTH N WANJAU (2018). The practice of herbal medicine in management of oral health in Nairobi County, Kenya. International Journal of Herbal Medicine, 6 (5): 05-09.
33. STEPHEN M NJOGU, WYCLIFFE M ARIKA, ALEX K MACHOCHO, JOSEPH JN NGERANWA, and **ELIUD NM NJAGI** (2018). *In vivo* hypoglycemic effect of *Kigelia africana* (Lam) studies with alloxan-induced diabetic mice. Journal of Evidence-Based Integrative Medicine, 23: 1-10.
34. KAINYU RM, **NJAGI ENM**, GEORGE O, KIRUKI S (2018). Establishment of reference ranges for liver biochemistry tests in children in Meru County, Kenya. Biochemistry and Analytical Biochemistry, 7: 349. doi:10.4172/2161-1009.1000349.
35. NJERI L KIMANI, NJANGIRU I KINYUA, **ELIUD NM NJAGI** and GEORGE O ORINDA (2018). Antidiabetic activity of administration of aqueous extract of *Berberis holstii*. Journal of Diabetes and Metabolism, 8:11 DOI: 10.4172/2155-6156.1000774.
36. **RICHARD** M GITIMU, JOSEPH K GIKUNJU, STANLEY K WAITHAKA and **ELIUD NM NJAGI** (2017). Thyroid profile reference limits for adult and geriatric population of Taita-Taveta County, Kenya. International Journal of Advanced Biochemistry Research, 1 (1): 47-57.
37. NJERI L KIMANI, **ELIUD NM NJAGI** and GEORGE O ORINDA (2017). *In vivo* oral and intraperitoneal administration of extract from *Vernonia lasiopus*. Medicinal and Aromatic Plants (Los Angeles), 6:6 DOI: 10.4172/2167-0412.1000308.
38. NJERI LK, **ELIUD NM NJAGI** and GEORGE O ORINDA (2017). Antidiabetic activity of aqueous extract of *Sonchus asper* used as anti-hyperglycemic herb in Kenya. Journal of Diabetes and Clinical Studies, 1 (1): 001-007.
39. GITIMU RM, NJANGIRU IK and **NJAGI ENM** (2017). Need for reference ranges for liver function tests in infants and children from Taita Taveta County, Kenya. Journal of Clinical Chemistry and Laboratory Medicine, 1(1): 1000104 (pages 1-6).
40. JOAN M NJAGI, DANIEL N AKUNGA, MARTIN M NJAGI, MATHEW P NGUGI, and **ELIUD MN NJAGI** (2017). Heavy metal concentration in vegetables grown around dumpsites in Nairobi City County, Kenya. World Environment, 7 (2): 49-56.
41. NJOGU M STEPHEN, ARIKA M WYCLIFFE, MACHOCHO K ALEX, NGERANWA JN JOSEPH and **NJAGI NM ELIUD** (2017). *In vivo* antidiabetic activity of aqueous and ethyl acetate leaf extract of *Senna senguena* (Delile) in alloxan induced diabetic mice. The Journal of Phytopharmacology, 6 (2): 97-105.
42. JOSHUA NDUNG'U GIKONYO, JAMES NYANGAO, CECILIA MBAE, CARLENE SANG, **ELIUD NJAGI**, JOSEPH NGERANWA, MATHEW ESONA, MAPASEKA L. SEHERI, GRACE W. GITAU, KEDRA RAINI and SAMUEL KARIUKI (2017). Molecular characterization of group A rotaviruses in Mukuru slums Kenya: detection of novel strains circulating in children below 5 years of age. BMC Research Notes, 10:290 DOI: 10.1186/s13104-017-2611-z
43. MWANGI J MUKUNDI, **NJAGI EN MWANIKI**, NGUGI M PIERO, NJAGI J MURUGI, JUMA K KELVIN, ABDIRAHMAN A YUSUF, MWONJORIA K JOHN, NGETICH K ALEX, AGYIRIFO S

DANIEL, GATHUMBI K PETER and MUCHUGI N ALICE (2017). Potential antidiabetic effects and safety of aqueous extracts of *Urtica dioica* collected from Narok County, Kenya. *Pharmaceutica Analytica Acta*, 8:5 DOI: 10.4172/2153-2435.1000548

44. SORE A MILLYCENT, MWONJORIA K JOHN, JUMA K KELVIN, NGUGI M PIERO and **NJAGI EN MWANIKI** (2017). Evaluation of analgesic, anti-inflammatory and toxic effects of *Lantana camara* L. *International Journal of Phytopharmacology*, 8 (3): 89-97.
45. KOECH SC, OUKO RO, MICHAEL NM, IRERI MM, NGUGI MP and **NJAGI NM** (2017). Analgesic activity of dichloromethanolic root extract of *Clutia abyssinica* in Swiss Albino mice. *Natural Products Chemistry and Research*, 5:2 DOI: 10.4172/2329-6836.1000255.
46. KOECH SC, MAOGA JB, SINDANI AV, IRERI MM, MWONJORIA JK, **NJAGI NM** and NGUGI MP (2017). Anti-inflammatory activity of dichloromethanolic root extract of *Clutia abyssinica* in Swiss Albino mice. *Journal of Pharmacognosy and Natural Products*, 3:1 DOI: 10.4172/2472-0992.1000132.
47. NJERI LK and **ELIUD NM NJAGI** (2017). Antidiabetic activity in mice of *Piper capence* used traditionally in the management of diabetes mellitus in Kenya. *Journal of Diabetes and Metabolism*, 8:4 DOI: 10.4172/2155-6156.1000737.
48. KOECH SC, SINDANI AV, MAOGA JB, OUKO RO, **NJAGI NM** and NGUGI MP (2017). Antipyretic potential of dichloromethanolic root extract of *Clutia abyssinica* in Wistar albino rats. *Medicinal and Aromatic Plants*, 6:1 DOI: 10.4172/2167-0412.1000281
49. NJANGIRU ISAAC KINYUA, GITIMU MAINA RICHARD, and **NJAGI ELIUD NYAGA MWANIKI** (2017). *In vivo* antidiabetic activity of aqueous extracts of *Psidium quajava* in alloxanized diabetic mice. *Journal of Medical, Biomedical and Applied Sciences*, 5 (1): 1-6.
50. NJOROGE GIDEON KIMANI, **NJAGI ELIUD NYAGA MWANIKI**, GIKONYO NICHOLAS KAMINDO and PIERO NGUGI MATHEW (2017). *In vivo* antidiabetic potential and safety of aqueous extracts of *Triticum aestivium* (Wheatgrass). *International Journal for Medicine and Pharmaceutical Sciences*, 7 (1): 77-84.
51. DAVID NZIOKA MUTUA, **ELIUD NYAGA MWANIKI NJAGI**, GEORGE ORINDA, FRANK KANSIIME, JOHN OMARA and JOSEPH KYAMBADDE (2017). Evaluation of organic carbon from anaerobic sequencing batch reactor effluent as a carbon source for denitrification. *Journal of Bioengineering and Biomedical Science*, 7:1 DOI: 10.4172/2155-9538.1000214
52. GITIMU MR, NJANGIRU KI, MUTUA ND, WAITHAKA KS, JUMA KK, NDUNGU WC, MWAWASI J, CHARO MW, PARMAL D, NGERANWA NJ and **NJAGI ENM** (2016). Paediatric and young adults reference values for renal, cardiac and pancreatic function tests for the population of Taita Taveta County. *Biochemistry and Analytical Biochemistry*, 5:3 DOI: 10.4172/2161-1009.1000295.
53. DAVID NZIOKA MUTUA, **ELIUD NYAGA MWANIKI NJAGI**, GEORGE ORINDA, GEOFFRY OBONDI, FRANK KANSIIME, JOSEPH KYAMBADDE, JOHN OMARA, ROBINSON ODONG and HELLEN BUTUNGI (2016). Biological treatment of meat processing wastewater using lab-scale anaerobic-aerobic-anoxic sequencing batch reactors operated in series. *Journal of Bioremediation and Biodegradation*, 7:4 DOI: 10.4172/2155-6199.1000362.
54. NJOGU SM, ARIKA WM, NYAMAI DW, NGUGI MP, MACHOCHO AK, NGERANWA JJN and **NJAGI ENM** (2016). Hypoglycemic effect of aqueous and ethylacetate leaf extract of *Maytenus putterkloides* in alloxan induced diabetic mice. *Journal of Diabetes and Metabolism*, 7:6 <http://dx.doi.org/10.4172/2155-6156.1000685>

55. ARIKA WM, NYAMAI DW, AGYIRIFO DS, NGUGI MP and **NJAGI ENM (2016)**. *In vivo* antidiabetic effect of aqueous leaf extract of *Azadirachta indica* (A juss) in alloxan induced diabetic mice. Journal of Diabetic Complications and Medicine, 1:2 <http://dx.doi.org/10.4172/jdcm.1000.106>
56. MUGWERU FG, NYAMAI DW, ARIKA WM, MWORIA JK, NGUGI MP, **NJAGI ENM** and NGERANWA JJN (2016). *In vivo* safety of aqueous extracts of *Maytenus putterlickoides*, *Senna spectabilis* and *Olinia usambarensis* on mice models. Journal of Clinical Toxicology, 6:3. <http://dx.doi.org/10.4172/2161-0495.1000305>
57. THOMAS M MUSYOKA, NYAMAI W DOROTHY, ARIKA M WYCLIFFE, JUMA K KISAKA, MUTUA D NZIOKA, DAVID MAINA, STANELY K WAITHAKA, MATHEW P NGUGI, GEORGE O ORINDA, GEOFFREY M KARAU and **ELIUD NM NJAGI (2016)**. *In vivo* antianemic effect and safety of aqueous extracts of *Erythrina abyssinica* and *Zanthoxylum usambarensis* in mice models. Journal of Hematology and Thromboembolic Diseases, 4:3 <http://dx.doi.org/10.4172/23290.1000242>
58. DAVID NZIOKA MUTUA, JUMA KK, MUNENE M and **NJAGI ENM (2016)**. Safety, efficacy, regulations and bioethics in herbal medicines research and practice. Clinical Research and Bioethics, 7:2 <http://dx.doi.org/10.4172/2155-9627.1000270>.
59. GIKONYO NDUNG'U JOSHUA, NYANGAO OLUOMO JAMES, MBAE CECILIA, NGERANWA JOSEPH, **NJAGI NYAGA MWANIKI ELIUD** and KARIUKI MUNGAI SAMUEL (2016). Prevalence of group A rotavirus, enteric adenovirus, norovirus and astrovirus infections among children aged five years and below in Mukuru slums, Nairobi, Kenya. African Journal of Health Sciences, 29 (1): 134-145.
60. ARIKA WM, NYAMAI DW, OSANO KO, NGUGI MP and **NJAGI ENM (2016)**. Biochemical markers of *in vivo* hepatotoxicity. Journal of Clinical Toxicity: Review, 6:297 DOI.10.4172/2161-0495.10002297.
61. MUGWERU FG, NYAMAI DW, ARIKA WM, NGUGI MP, GATHUMBI PK, **NJAGI ENM** and NGERANWA JJN (2016). Antimicrobial activity of aqueous extracts of *Maytenus putterlickoides*, *Senna spectabilis* and *Olinia usambarensis* on selected diarrhea causing bacteria. Journal of Bacteriology and Parasitology, 7:2. <http://dx.doi.org/10.4172/2155-95970.1000270>
62. SAFARI VZ, KAMAU JK, NTHIGA PM, NGUGI MP, ORINDA G and **NJAGI EM (2016)**. Antipyretic, anti-inflammatory and antinociceptive activities of aqueous bark extract of *Aloe volkensii* in albino mice. Medicinal and Aromatic Plants, 5:3 <http://dx.doi.org/10.4172/2167-0412.1000240>
63. ARIKA WM, NYAMAI DW, MUSILA MN, NGUGI MP and **NJAGI ENM (2016)**. Hematological markers of *in vivo* toxicity. Journal of Hematology and Thromboembolic Diseases: Review, 4:1. <http://dx.doi.org/10.4172/2329-8790.1000236>
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144. RICHARD O ODOUR, **ELIUD NM NJAGI**, S NDUNG'U and JS MACHUKA (2006). *In vitro* regeneration of dryland Kenyan maize genotypes through somatic embryogenesis. *International Journal of Botany*, **2** (2): 146-151.
145. LE AGOLA, DN MBURU, RJ DEJONG, BN MUNGAI, GM MULUVI, **ENM NJAGI**, ES LOKER, and GM MKOJI (2006). Microsatellite typing reveals strong genetic structure of *Schistosoma mansoni* from localities in Kenya. *Infection, Genetics and Evolution*, **6**: 484- 490.
146. JANE M NGAIRA; **ENM NJAGI**; NK OLEMBO and JJN NGERANWA (2005). The detection of non-RoTat 1.2 *Trypanosoma evansi*. *Experimental Parasitology*, **110**: 30-38.
147. ESTHER N NGUMBI, ADELE J NGI-SONG, **ELIUD NM NJAGI**, RITA TORTO, LESTER J WADHAMS, MICHAEL A BIRKETT, JOHN A PICKETT, WILLIAMS A OVERHOLT and BALDWIN TORTO (2005). Responses of the stem borer larval endoparasitoid *Cotesia flavipes* (Hymenoptera: Braconidae) to plant derived synomones: Laboratory and field cage experiments. *Biocontrol Science and Technology*, **15** (2): 271-279.
148. JAMES N KANYARA and **ELIUD NM NJAGI** (2005). Anti-HIV activities in extracts from some medicinal plants as assessed in an *in vitro* biochemical HIV-1 reverse transcriptase assay. *Phytotherapy Research*, **19**: 287-290.
149. JANE M NGAIRA; **ELIUD NM NJAGI**; JOSEPH JN NGERANWA and NORAH K OLEMBO (2004). PCR amplification of RoTat 1.2 VSG gene in *Trypanosoma evansi* isolates in Kenya. *Veterinary Parasitology*, **120**: 23-33.
150. FRANCIS M WAMAKIMA; SC CHHABRA; **ELIUD NM NJAGI**; CAROLINE C LANG'AT-THORUWA; WILSON M NJUE; ALLOYS SS ORAGO; SA OMAR and ISAIH O NDIEGE (2004). Anti-plasmodial activity of some Kenyan medicinal plant extracts singly and in combination with chloroquine. *Phytotherapy Research*, **18**: 379-384.
151. FRANCIS M WAMAKIMA; SC CHHABRA; **ENM NJAGI**; CAROLINE C LANG'AT-THORUWA; WILSON M NJUE; ALLOYS SS ORAGO; SA OMAR and ISAIH O NDIEGE (2003). *In vitro* anti-plasmodial activity of some plants used in Kisii, Kenya against malaria and their chloroquine potentiation effects. *Journal of Ethnopharmacology*, **84**: 235-239.

152. JANE M NGAIRA; B BETT; SM KARANJA and **ENM NJAGI** (2003). Evaluation of antigen and antibody rapid detection tests for *Trypanosoma evansi* infection in camels in Kenya. *Veterinary Parasitology*, **114** (2): 131-141.
153. MARY W MURIITHI; W-R. ABRAHAM; JONATHAN ADDAE-KYEREME; IAN SCOWAN; SIMON L. CROFT; PETER M GITU; HOWARD KENDRICK; **ELIUD NM NJAGI** and COLIN W WRIGHT (2002). Isolation and *in vitro* anti-plasmodial activities of alkaloids from *Teclea trichocarpa*; *in vivo* anti-malarial activity and X-ray crystal structure of normelicopicine. *Journal of Natural Products*, **65** (7): 956-959.
154. **ELIUD NM NJAGI**; ANTONY M KINYUA; JUSTUS K MUNYUA and MJ MANGALA (2001). EDXRF Analysis of local and imported pica soil samples. *East African Journal of Science*, **3** (1): 19-23.
155. JUSTUS K MUNYUA and **ELIUD NM NJAGI** (1998). Alkaline Phosphatase test for the detection of improper pasteurization of Milk and Dairy Products: A review. *International Journal of BioChemPhysics*, **6 & 7** (1&2): 55-57.
156. **ELIUD NM NJAGI**; JUSTUS K MUNYUA and AG MARK (1998). Physicochemical characterization of oils from some Kenya plants. *International Journal of BioChemPhysics*, **6 & 7** (1 & 2): 58-62.
157. **ELIUD NM NJAGI**; KENNETH N LEMA and JUSTUS K MUNYUA (1994). *Schistosoma mansoni*: Effects on Glucose metabolism in mice. *International Journal of BioChemPhysics*, **3**: 64-68.
158. DAVID A BENDER and **ELIUD NM NJAGI** (1993). The metabolism of Amino Acids in mice infected with *Schistosoma mansoni*. *The Proceedings of the Nutritional Society*, **52**: 7a.
159. **ELIUD NM NJAGI**; NORAH K OLEMBO and DAVID J PEARSON (1992). Proline transport by Tsetse fly, *Glossina morsitan* Flight Muscle Mitochondria. *Comparative Biochemistry and Physiology*, **102B** (2): 579-584.
160. **ELIUD NM NJAGI**; DAVID A BENDER and GIDEON BA OKELLO (1992). Tryptophan metabolism and vitamin B6 nutritional status in patients with *Schistosomiasis mansoni* and infected mice. *Parasitology*, **104**: 433-484.
161. **ELIUD NM NJAGI** and DAVID A BENDER (1990). Tryptophan metabolism in mice infected with *Schistosoma mansoni*. *Experimental Parasitology*, **70**: 43-54.
162. DAVID A BENDER; **ELIUD NM NJAGI** and PAUL S DANIELIAN (1990). Tryptophan metabolism in vitamin B6 deficient mice. *British Journal of Nutrition*, **63**: 27-36.

5.1.1 Articles in Conference Proceedings

1. REGINA W KAMUHU, JUDITH KIMIYWE, **ELIUD NM NJAGI** and BEATRICE MUGENDI (2015). Effect of peanut supplementation on cardiovascular disease markers in HIV-infected adults with normal and hyperlipidemia attending Nyeri Level-5-Hospital, Kenya. Federation of African Nutrition Societies (FANUS); 3rd Conference; 25th-29th May, 2015; Ngurdoto Hotel, Arusha City, Tanzania.
2. JANE B MUGENDI and **ELIUD NM NJAGI** (2010). Effects of processing Mucuna bean, *Mucuna pruriens* L. on protein quality and antinutrient content. Proceedings of the **Tropentag 2010** Conference on International Research on Food Security, Natural Resource Management and Rural Development; ETH Zurich, September 14th to 16th 2010. pp 1- 8.
3. OGAO AA, MULI FW, OKEM PO, **NJAGI ENM** and NDIEGE IO (2004). *In vitro* activity of selected medicinal plants against some pathogenic bacteria. In: BOGA H I, WANJOHI W J, OKEMO P O, MACHUKA J, MULI F W, MONDA E and SIBOE G (Eds); Recent Advances in Microbial Research and the Implications to Health, Agriculture and Environment; Proceedings of the 2nd Regional

Microbiology Conference held at Kenya School of Monetary Studies, Nairobi, Kenya from 16th- 19th March 2004. pp 71-80.

4. FIDALIS MN, HOEVEN E, GEERTS S, DIALLO B, SOWE JM, COLY R, SANGARE N, ALEMU T, **NJAGI ENM**, LEAK S, HANOTTE O and HAN J (2004). Genetic characterization of the West African Dwarf (WAD) goat. Proceedings of **the 29th International Society of the Animal Genetics** held in Tokyo, Japan from 11th - 16th September, 2004. pp 60-68.

5.2 Other Publications

5.2.1 University Level Book(s)

LUCY MIMANO, **ELIUD NJAGI** and RONALD MAATHAI (2012). **Diarrhea causing pathogens in Mathare, Nairobi, Kenya, 2003**; LAP LAMBERT Academic Publishing. ISBN 978-3-8484-2562-4 (2012-03-08)

5.2.2 Book Chapters in a University Level Scholarly Book

1. DAVID A BENDER and **ELIUD NM NJAGI** (1992). Tryptophan metabolism in patients with Bilharzia and in mice infected with *Schistosoma mansoni*. In: Ishguro I; Kido R; Nagastu T; Nagamura Y and Ohta T (Eds); **Advances in Tryptophan Research**; Fujita Health University Press, Toyoake, Japan. pp 157-160.
2. DAVID A BENDER; **ELIUD NM NJAGI** and PAUL S DANIELIAN (1991). Comparison of Tryptophan metabolism *in vivo* and isolated hepatocytes. In: Schwarcz, R; Young, S.N. and Brown, R.R. (Eds); **Kynurenine and Serotonin Pathways**; Plenum Press, New York. pp 497-500.
3. **ELIUD NM NJAGI** and DAVID A BENDER (1991). *Schistosoma mansoni*: Effects of Tryptophan metabolism in mice. In: Schwarcz R; Young SN and Brown RR (Eds); **Kynurenine and Serotonin Pathways**; Plenum Press, New York. pp 359-368.
4. KENNETH N LEMA; **ELIUD NM NJAGI** and JUSTUS K MUNYUA (1998). Effects of *Schistosoma mansoni* infection on mammalian host glucose metabolism. In: JAMES O OCHANDA; JOB K KIAIRA; DOMINIC W MAKAWITI (Eds); Proceedings of the First Meeting of **Federation of African Societies of Biochemistry and Molecular Biology (FASBMB)**. pp 351-354.

5.2.3 Scholarly Presentations at Conferences/Workshops/Seminars

5.2.3.1 Participation in Conferences

2010

BIO-EARN 2010 Conference “A Decade of Bioscience Development in Eastern Africa” and launching of “Bio-resources Innovation Network for Eastern Africa Development (Bio-Innovate)”; Hilton Hotel, Nairobi, Kenya; 29th to 31st March 2010.

2008

First BIO-EARN/VICRES Scientific Conference “Harnessing Bio-Resources for Social Economic Transformation for Eastern Africa”; Speke Resort Munyonyo, Kampala, Uganda; 24th to 26th November 2008.

2006

Regional Conference on Better Air Quality in Sub-Saharan African Cities (BAQ-SSA 2006); UNEP Headquarters, Gigiri Road, Nairobi, Kenya; 25th to 28th July, 2006.

2005

Kenya Coalition for Action in Nutrition (K-CAN's) Congress: "Food and Nutrition Security for Health and Development"; The Kenya School of Monetary Studies, Nairobi, Kenya; 21st to 23rd February, 2005.

2004

10th Symposium of the Biochemical Society of Kenya **Annual Symposium held at the** Department of Biochemistry and Molecular Biology, Egerton University, Njoro, Kenya; 9th to 11th September, 2004.

2003

24th African Health Sciences Congress "**Challenges and strategies in combating health problems in Africa towards development efforts**"; **Addis Ababa, Ethiopia**; 28th September to 2nd October, 2003.

9th Symposium of the Biochemical Society of Kenya **Annual symposium held at the** Department of Biochemistry and Biotechnology, Kenyatta University, Kenya **from 14th to 15th August, 2003.**

2000

6th Biochemical Society of Kenya Annual Conference **meeting on** Biochemistry and Biotechnology for improving of Health and Food Resources **held at the** Department of Biochemistry, University of Nairobi, Kenya **from 2nd to 3rd October, 2000.**

1996

First Pan-African Conference on Biochemistry and Molecular Biology at UNEP, **Nairobi, Kenya from 2nd to 6th September 1996 incorporating the** launching of Federation of African Societies of Biochemistry and Molecular Biology (FASBMB).

British Section of the Society of Protozoology (BSSP), Annual Spring Meeting, **Imperial College at Silwood Park, London, UK from 10th to 12th April 1996.**

1995

5th Biochemical Society of Kenya Annual Symposium: Advances in Biochemical research and applications **in Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, from 5th to 6th October, 1995.**

1993

Fourth Biochemical Society of Kenya Annual Symposium: Biochemistry in Food Production and Health **in the Department of Biochemistry, Nairobi University from 29th to 30th November, 1993.**

International Meeting of Neuroscience **at KEMRI from 8th to 13th March 1993.**

1987

Eighth Annual Medical Scientific Conference of KEMRI and KETRI **at KEMRI from 2nd to 6th February 1987.**

1985

The Seventh International Congress of Protozoology **at KICC from 22nd to 29th June 1985.**

5.2.3.2 Participation in Workshops

2018

Stakeholders Training on Climate Change (Variation), Regional Centre of Expertise (RCE) for Greater Nairobi [NEMA-Kenyatta University], Central Park Hotel Ltd, Nairobi; 26th June, 2018.

2015

Stakeholder Curriculum Development Workshop; Department of Pure and Applied Sciences, Faculty of Applied and Health Sciences, Technical University of Mombasa (TUM); MSc/PhD in Biotechnology Curriculum; 25th-26th May, 2015; TUM's Kiziwi Hospitality & Conference Centre.

2014

Certificate and Diploma Curricula Review Technical Working Group Work Retreat for **Kenya Medical Laboratory Technicians and Technologists Board (KMLTTB)**, P.O. Box 20889-00202, Nairobi sponsored by **University of Maryland** and **University of Nairobi** at **The Legacy Hotel & Suites, Maralal Road, Off Mburu Gichua Road, P.O. Box 1649-20100, Nakuru** from **23rd June to 27th June, 2014**.

2012

Participatory Plant Breeding (PPB) workshop organized by **Capacitate (Developing Capacity for Participatory and Marker Assisted Plant Breeding to Mitigate Low Crop Productivity and Poor Food Security) East Africa Project** held at **Kenyatta University Conference Centre (KUCC), Kenyatta University** from **22nd to 29th June, 2012**.

2010

First Open Access Africa Workshop: An event from BioMed Central the Open Access Publisher; **Kenyatta University Conference Centre (KUCC), Nairobi, Kenya;** **10th to 11th November 2010.**

2009

Family Health International (FHI), Kenyatta University (KU) and NASCOP facilitator for Data for Decision (D4D) Making Training Workshop; **Wagon Hotel, Eldoret, Kenya;** **2nd to 6th November 2009.**

Family Health International (FHI), Kenyatta University (KU) and NASCOP facilitator for Data for Decision (D4D) Making Training Workshop; **Royal Court Hotel, Haile Selassie Road, Mombasa, Kenya;** **12th to 16th October 2009.**

Family Health International (FHI), Kenyatta University (KU) and NASCOP facilitator for Data for Decision (D4D) Making Training Workshop; **Great Rift Valley Lodge and Golf Resort, Naivasha, Kenya;** **19th to 24th June 2009.**

2008

BIO-EARN Regional Planning Meeting; **Speke Resort Munyonyo, Kampala, Uganda;** **27th to 28th November 2008.**

BIO-EARN Financial Management and Reporting Training Workshop; **Imperial Resort Beach Hotel, Entebbe, Uganda;** **14th to 16th, April 2008.**

2007

BIO-EARN Regional Workshop; **White Sands Hotel Ltd, Off Bagamoyo Road, Dar-Es-Salaam, Tanzania;** **3rd to 5th, December, 2007.**

BIO-EARN National Workshop on PDP Analysis; **KARI Headquarters, Nairobi;** **30th November 2007.**

Life Science Research Solutions from Sigma-Aldrich seminar; **ILRI, Nairobi;** **7th February 2007.**

2006

BIO-EARN Project 3 Material Transfer Agreement and Research Collaboration Agreement Finalization Workshop meeting; **KARI Headquarters, Kaptagat Road, Nairobi;** **13th December 2006.**

BIO-EARN Programme Product Development Pathways (PDP)/Intellectual Property (IP) Workshop; **Panari Hotel, Panari Sky Centre, Off Mombasa Road, Nairobi, Kenya;** **29th October to 1st November, 2006.**

BIO-EARN Project 3 Management Workshop Meeting; **Imperial Hotel, Off Bode and Amiche Road, Addis Ababa, Ethiopia;** **20th to 22nd November, 2006.**

BIO-EARN Programme Good Project Management Practice Course and Workshop; Silver Springs Hotel, Argwings Kodhek Road; Nairobi, Kenya; 4th to 7th September, 2006.

BIO-EARN Programme Kick-Off Workshop Meeting; Nairobi Safari Club, Lilian Towers, University Way, Nairobi, Kenya; 20-21 April, 2006.

5.2.3.3 Participation in Seminars

2006

Overview of **Intellectual Property Rights** and Importance of **IP Policy** in Public Universities at Kenyatta University, at AVU Centre on 30th March, **2006**.

Family Health International Workshop on the **Impact, Achievements and Constraints of HIV programs** in Kenya at Kenyatta University, AVU Centre from 6th to 10th March **2006**.

5.2.4 Presentation of Papers at Academic and Professional Conferences

2017

NJOROGE GK, **NJAGI ENM**, GIKONYO KN and PIERO NM (**2017**). *In vivo* antidiabetic potential and safety of *Triticum aestivum* (Wheatgrass). 4th University of Nairobi and Kenyatta National Hospital International Scientific conference. "Transforming Healthcare through research and innovation" 14th -16th June, 2017. Abstract 60.

2010

MUGENDI JB and **NJAGI ENM** (2010). Effects of processing Mucuna bean (*Mucuna pruriens* L.) on protein quality and anti-nutrient content" for presentation at the Tropentag 2010, to be held September 14th to 16th at the ETH Zurich "World Food System-A Contribution from Europe".

MAMBO LA, **NJAGI ENM**, and ORINDA GO (2010). Determination of pesticide poisoning incidence and butyrylcholinesterase activity patterns using an experimental monitoring program in a horticultural farm. Risk assessment and toxicological aspect. 6th European conference on pesticide and related organic micropollutants in the environment; 12th Symposium on Chemistry and fate of modern pesticides. Pesticides 2010-Matera 5th to 10th September 2010.

2009

MBUGUA FM, OKOTH F, BORUS P, MUCHAI P, KOMBICH J, NJUGUNA M, LANGAT A, KAMAU T, **NJAGI ENM**, NGERANWA JJN and KHAMADI S (2009). Genetic characterization of wild-type measles viruses circulating in Kenya. "Climate change, environment and health"; 3rd East African Health and Scientific Conference; Kenyatta International Conference Centre; Nairobi, Kenya; 25th to 27th March 2009. Abstract pp16.

NJOROGE GK, **NJAGI ENM** and SEKADDE-KIGONDU CB (2009). Environmental pollution and impact to public Health: A case study of the Dandora waste dumping site. "Climate change, environment and health"; 3rd East African Health and Scientific Conference; Kenyatta International Conference Centre; Nairobi, Kenya; 25th to 27th March 2009. Abstract pp54.

NJOROGE GK, **NJAGI ENM** and SEKADDE-KIGONDU CB (2009). General public and occupational exposure to lead in selected places in Nairobi. "Climate change, environment and health"; 3rd East African Health and Scientific Conference; Kenyatta International Conference Centre; Nairobi, Kenya; 25th to 27th March 2009. Abstract pp55.

MAMBO LA, **NJAGI ENM**, ORINDA GO and NGERANWA JJN (2009). Establishing realistic chlorine concentrations and conditions in the control of bacterial contamination in selected vegetables within a prepared packaging house in Homegrown. "Climate change, environment and Health"; 3rd East African Health and Scientific Conference; Kenyatta International Conference Centre; Nairobi, Kenya; 25th to 27th March 2009. Abstract pp101.

2008

DAVID N MUTUA, GEORGE O ORINDA, **ELIUD NM NJAGI**, FRANK KANSIIME and JOSEPH KYAMBADDE (2008). Biological treatment of meat processing wastewater using anaerobic/anoxic sequence batch reactors operated in series. First BIO-EARN/VICRES Scientific Conference "Harnessing Bio-resource for social economic transformation for Eastern Africa"; Speke Resort Munyonyo, Kampala, Uganda; 24th to 26th November 2008. Abstract pp70.

JOAN M NJAGI, JOSEPH JN NGERANWA and **ELIUD NM NJAGI** (2008). Hypoglycemic effects of some Kenyan plants that traditionally manage diabetes mellitus. "Physiological Sciences and Development in Africa". 5th International congress of the African Association of Physiological Sciences (AAPS); Chiromo Campus, College of Health, Veterinary, Biological and Physical Sciences, University of Nairobi, Kenya; 27th July to 1st August 2008.

STANELY W KING'E, **ELIUD NM NJAGI**, JOSEPH JN NGERANWA and CHRISTINE B SEKADDE-KIGONDU (2008). Reference ranges for some biochemical parameters in adult Kenyans. Kenyatta National Hospital Inaugural Scientific Research Conference; College of Health Sciences, University of Nairobi, Nairobi; 15th to 19th September 2008.

DANIEL M MUTURI, **ELIUD NM NJAGI**, JOSEPH JN NGERANWA, GEORGE O ORINDA and SETH MCLIGEYO (2008). Subclinical nephrotoxicity caused by occupational silica exposure and smoking among Kenyan Industrial workers. Kenyatta National Hospital Inaugural Scientific Research Conference; College of Health Sciences, University of Nairobi, Nairobi; 15th to 19th September 2008.

GIDEON K NJOROGE, **ELIUD NM NJAGI**, GEORGE O ORINDA, CHRISTINE B SEKADDE-KIGONDU and JOHN K KAAYIMA (2008). General public and occupational exposure to lead in Olkaou and selected places in Nairobi. Kenyatta National Hospital Inaugural Scientific Research Conference; College of Health Sciences, University of Nairobi, Nairobi; 15th to 19th September 2008.

2005

ALICE MUCHUGI, ARD GLENGKEEK, CAROLINE AC AGUFA, GEOFFREY M MULUVI, **ELIUD NM NJAGI** and IAN K. DAWSON (2005). Genetic variation in the threatened medicinal tree *Prunus africana* in Cameroon and Kenya: implications for current management and evolutionary history. FAO workshop on biodiversity: The role of biotechnology; Villa Gualino, Turin, Italy, from 5th to 7th May 2005. pp 188 - 190.

JAYNE BINOTT, **ELIUD NM NJAGI**, JM SONGA, JANE ININDA and JESSE S MACHUKA (2005). Regeneration potential of parental inbred lines and their respective single cross hybrids via somatic embryogenesis; **Opportunities and Challenges for transforming Agriculture in Africa**. Proceedings of the 7th African Crop Science Society conference at Entebbe, Uganda from 5th to 9th December 2005.

2004

JANE M NGAIRA; **ELIUD NM NJAGI**; JOSEPH JN NGERANWA and NORAH K OLEMBO (2004). The occurrence of non-RoTat 1.2 *Trypanosoma evansi* in Kenya. The 9th Symposium of the Biochemical Society of Kenya **Annual Symposium; 14th to 15th August 2003; Department of Biochemistry, Kenyatta University**. Abstract pp23.

ODUOR RO, NDUNG'U S, **NJAGI ENM** and MACHUKA J (2004). *In vitro* regeneration of popular Kenyan dryland maize hybrids. The 10th symposium of the **Biochemical Society of Kenya** held in Egerton University, Njoro, Kenya from 9th to 11th September 2004.

2003

BEN N MUNGAI; **ELIUD NM NJAGI**; FAITH W MULI; ERIC L AGOLA; JAT MORGAN; RJ DEJONG; DMS KARANJA; GM MUCHEMI; ES LOKER and GM MKOJI (2003). The presence of *Schistosoma rodhaini* in western Kenya and its implication on the epidemiology of *Schistosoma mansoni*. **24th African Health Sciences Congress "Challenges and strategies in combating health problems in**

Africa towards development efforts”; Addis Ababa, Ethiopia; 28th September to 2nd October 2003. Abstract pp121.

JOAN E AUMA; SIMON P MURIUKI and **ELIUD NM NJAGI** (2003). The effect of *Trypanosoma brucei* infection on biochemical parameters in rats. The 9th Symposium of the Biochemical Society of Kenya **Annual Symposium; 14th to 15th August 2003; Department of Biochemistry, Kenyatta University.** Abstract pp24.

JIMMY H KIHARA; MT MWANJE; AE ODEK; **ELIUD NM NJAGI**; EU KENYA; FREDRICK W THIONG'O; JOHN H OUMA; GV DAM; AI KAHAMA and JW KAZURA (2003). Clearance of soluble egg antigen in *Schistosoma haematobium* infection in relation to sex and age of Kenyan school children after Praziquantel treatment. The 9th Symposium of the Biochemical Society of Kenya **Annual Symposium; 14th to 15th August 2003; Department of Biochemistry, Kenyatta University.** Abstract pp29.

LUCY N MIMANO; **ELIUD NM NJAGI** and JOSEPH JN NGERANWA (2003). Diarrhoea causing organisms in the human population of Mathare, Nairobi, Kenya. The 9th Symposium of the Biochemical Society of Kenya **Annual Symposium; 14th to 15th August 2003; Department of Biochemistry, Kenyatta University.** Abstract pp9.

RM KIBAYA; CW GICHUKI; **ELIUD NM NJAGI**; EM SONGOK; P TUKEI and H ICHIMURA (2003). The effect of short term Zidovudine treatment on selection of HIV-1 during vertical transmission. The 9th Symposium of the Biochemical Society of Kenya **Annual Symposium; 14th to 15th August 2003; Department of Biochemistry, Kenyatta University.** Abstract pp17.

2000

NJUE MW; CHHABRA SC; NDIEGE IO; LANG'AT CC; **NJAGI ENM**; and ORAGO ASS (2000). A survey of medicinal plants traditionally used for the cure of **Highland Malaria** from some parts of Rift Valley, Eastern and Western Kenya. First African Congress on Biology and Health: Biological and Pharmacological activities of natural substances; April 23rd to 25th, **2000**; Arts Centre, Setif, Algeria. Abstract pp11.

OKECH GBA; ANJILI CO; IRUNGU LW; MUNYUA JK; **NJAGI ENM** and RUKUNGA GM (2000). *In vitro* activity of total aqueous and ethanol leaf extracts of *Ricinus communis* on *Leishmania major* promastigotes. 21st African Health Sciences Congress. Abstract.

SIMON KANG'A; PH NILSSON; K ROTTENGATTER; T GOLDAMMER; CD KIM; K SRINIVAS; F IRAQ; J MWAKAYA; D MWANGI; M SCHERIN; A GELHAUS; **ELIUD NM NJAGI**; R HORSTMANN; J WOMACH; J GIBSON and O HANOTTE (2000). Comparative mapping of Cattle trypanotolerance quantitative trait locus region on *Bos taurus* chromosome-7. Animal Genomics: Synthesis of the past, present and future direction. The 27th Conference on Animal Genetics; July 22nd to 26th, **2000**; Minneapolis, Minnesota. pp 7-8.

1999

OKECH GBA; ANJILI CO; IRUNGU LW; MUNYUA JK; **NJAGI ENM** and RUKUNGA GM (1999). *In vivo* effects of the total aqueous leaf extracts and seed oil of *Ricinus communis* (Euphorbiaceae) on *Leishmania major* infections in In-bred Balb/c mice. "Health Research and Development in Africa: Meeting the Challenges of the Year 2000 and Beyond"; 20th African Health Sciences Congress and 20th Anniversary celebration of the Noguchi Memorial Institute for Medical Research, April 19th to 23rd, 1999 Accra-Ghana. Abstract pp 24.

1996

KENNETH N LEMA; **ELIUD NM NJAGI** and JUSTUS K MUNYUA (1996). Effects of *Schistosoma mansoni* infection on host mammalian glucose metabolism. **First Pan-African Conference on Biochemistry and Molecular Biology, September 2-6, 1996, Nairobi, Kenya incorporating the launching of Federation of African Societies of Biochemistry and Molecular Biology (FASBMB).** Abstract pp 239.

ELIUD NM NJAGI; TIM M PAGET and SIMON L CROFT (1996). *In vitro* activity and mechanism of action of the hydroxynaphthoquinones, buparvaquone and plumbagin on *Leishmania major*. First Pan-African Conference on Biochemistry and Molecular Biology, September 2nd to 6th, 1996, Nairobi, Kenya incorporating the launching of **Federation of African Societies of Biochemistry and Molecular Biology (FASBMB)**. Abstract pp 218.

6 QUALITY OF TEACHING AND LEARNING

6.1. Student Evaluation of Instructor and Course including Lecture Notes, Student Advising and Mentoring [70% and above = 5 points; 60-69% = 4 points; 50-59% = 3 points; 40-49% =2 points; 30-39% = 1 point; below 30% = 0 points]

Year	Unit Code	Unit Name	Score (%)	Grade
2015	SBC 270	Advanced Proteins and Enzymes	90	A
2014	SBC 426N	Environmental Biotechnology	90	A
2014	SBC 534	Industrial Biotechnology	96	A
2014	SBC 290	Proteins and Enzymes II	96	A
2014	SBC 801	Protein and Enzyme Technology	93	A
2014	SBC 878	Laboratory Data Management	92	A
2014	SBC 201	Proteins and Enzymes II	91	A
2014	SBC 301	Metabolism and Respiration In Plants	91	A
2013	SBC 426	Environmental Biotechnology	92	A
2013	HMB 107	Amino Acid Catabolism	90	A

6.2 Training in Higher Education Teaching (Professional Qualification)

2018

Train the Trainer workshop on Applied Entrepreneurship (Entrepreneurship and Innovation) Education Programme; Chandaria Business, Innovation and Incubation Centre, Kenyatta University; 8th-10th May, 2018 & 12th-14th June, 2018 [**Certificate awarded on 1st November, 2018**].

2017

Collaborative Institutional Training Initiative (CITI Program) Course [**Biomedical Research-Biomedical Responsible Conduct of Research**]: **CITI** Certificate (Record ID 23856518); Kenya Medical Research Institute; 13 July, 2017.

2013

Teaching Methodology covering **Teaching methodology, Setting of Examinations, Administration of Examinations, Marking and Analysis of Scores**; 28th May, 2013 to 14th November, 2013; Centre for Teaching Excellence & Evaluation; Kenyatta University.

2011

Basic Skills in Teaching Methodology and Course Examination held on 29th July 2011. **Regional Centre for Capacity Development**; Kenyatta University.

2010

Patent Drafting Training Course [**Kenya Intellectual Property Institute (KIPI)**; Kenyatta University AVU Lecture Hall; Nairobi, Kenya] held between 8th to 9th September, 2010 organized by **Intellectual Property Rights Unit**; Kenyatta University

2009

Family Health International (FHI), Kenyatta University (KU) and NASCOP Data for Decision (D4D) Making **Training of Trainers (TOT) Workshop**; Great Rift Valley Lodge and Golf Resort, Naivasha, Kenya; 5th to 9th April 2009.

6.3 Postgraduate Supervision

6.3.1 Doctor of Philosophy (PhD) Supervision (Completed)

1. Richard Gitimu (2023). PhD thesis entitled “**Reference ranges for triage room, biochemical, hematological and tumor marker parameters for Taita-Taveta County, Kenya**”. Department of Biochemistry, Microbiology and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/31987/2015
2. Njoroge Gideon Kimani (2021): PhD thesis entitled “**In vivo hypoglycemic activity and safety of Triticum aestivum, Hordeum vulgare, Urtica massaica and Cynanchum viminalis**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/27460/2014
3. Mwavita Amos Lewa (2018): PhD thesis entitled ‘**Phytochemical composition, efficacy and safety of herbal formulations used for management of HIV/AIDS in Mombasa County, Kenya**’. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/10953/2007.
4. Regina W Kamuhu (2016): PhD thesis entitled “**Impact of peanut supplementation on cardiovascular disease markers in HIV-infected with dyslipidemia attending Nyeri level-5 hospital, Kenya**”. Department of Foods, Nutrition and Dietetics, Kenyatta University, Nairobi, Kenya - H87/23272/2010
5. Geoffrey M Karau (2014): PhD thesis entitled ‘**Antidiabetic activities of ethylacetate and aqueous extracts of Pappea capensis, Senna spectabilis, Maytenus obscura, Ocimum americanum and Launaea cornuta**’. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/20608/2010.
6. Joan M Njagi (2013): PhD thesis entitled “**Assessment of heavy metal concentration in the environment and associated health risks: the case of Kadhodoke dumpsite in Dagoretti, Kenya**”. Department of Environmental Health, Kenyatta University, Nairobi, Kenya - P97/12738/2009.
7. Florence W Waiganjo (2013): PhD thesis entitled “**Safety and antimicrobial activities of herbal materials used in management of oral health by traditional medical practitioners in Nairobi County, Kenya**”. Department of Pharmacy and Complementary and Alternative Medicine, Kenyatta University, Nairobi, Kenya - P97/14538/ 2009
8. Alfred O Abiba (2013): PhD thesis entitled “**Antibacterial efficacy and safety of selected Kenyan medicinal plants**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/7602/1998.
9. Stanely K Waithaka (2012): PhD thesis entitled “**Reference ranges for biochemical parameters, creatinine clearance, oral glucose tolerance test, lipids, tumor markers and hormones for adult Kenyans**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/11233/2006.
10. Silas Kiruki (2012): PhD thesis entitled “**Molecular characterization of enteropathogenic bacteria and protozoa and their anti-microbial resistance levels in River Njoro and Nakuru Municipal waters**”. Department of Biochemistry and Molecular Biology, Egerton University, Njoro, Kenya - SD14/0115/2004.
11. Lucy A Mambo (2011): PhD thesis entitled “**Determination of the incidence of pesticides poisoning and butyrylcholinesterase activity patterns using an experimental monitoring programme in a horticultural farm**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/10035/2008

12. Jane BW Mugendi (2008): PhD thesis entitled “**Assessment of the effect of processing methods for 3, 4-Dihydroxy-1-Phenylalanine (L-DOPA) reduction on *Mucuna pruriens* (L.) protein quality**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/15117/2004.
13. Jane M Ngaira (2006): PhD thesis entitled “**Isolation and characterization of predominant Variant Antigen Types (pVATs) of *Trypanosoma evansi* stocks in Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/7611/1998. Email: jngaira@jkuat.ac.ke
14. Simon Kanga (2003): PhD thesis entitled “**Development and application of genetic markers linked to quantitative trait loci (QTL) controlling resistance to Trypanosomosis on Bovine chromosome-7**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/7676/2000.

6.3.2 Doctor of Philosophy (PhD) Supervision (*On Going*)

6.3.2.1 Thesis Writing

1. Wilfred K Gatua (2023): PhD thesis proposal entitled “**Relationship and agreement between arterial and venous blood gas and routine biochemistry analytes in diabetic ketoacidosis and chronic kidney disease patients**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/23321/2013.
2. Rose A Nyanga (2018): PhD thesis proposal entitled “**Comparative analysis of the impact of the implementation of biotechnology policies on the competitiveness of biotechnology sector**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/11234/2006.
3. Stephen M Njogu (2013): PhD thesis proposal entitled “Biological and phytochemical studies of *Erythrina abyssinica*, *Kigelia africana*, *Maytenus putterkloides*, *Ocimum kilimandscharicum*, and *Senna senguena* from Eastern Kenya used in the management of diabetes mellitus”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/11236/2006.

6.3.2.2 Data Collection

4. Lucy Kimani Wangai (2016): PhD thesis proposal entitled “**Optimization and comparison of production process for fuel bioethanol from wet and dry coffee pulp for cooking in rural Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/31988/2013
5. Kimuni Susan Nyawira (2016): PhD thesis proposal entitled “**Antipyretic, antinociceptive and anti-inflammatory properties of methanolic extracts of *Osyris lanceolata*, *Cissampelos pareira* and *Vernonia branchycalyx* in rat models**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/31988/2015
6. Gabriel M Kishoyian (2013): PhD thesis proposal entitled “**Use of molecular markers in monitoring Artemether Lumefantrine drug resistance to *Plasmodium falciparum* causing uncomplicated malaria in Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/13056/2009.
7. Rachel W Nambafu (2011): PhD thesis proposal entitled “**Effect of zinc supplementation on serum protein and lipids in PLWHA in Busia County, Western Kenya**”. Department of Chemistry, Kenyatta University, Nairobi, Kenya - I84/26947/2011

8. James N Kanyara (2009): PhD thesis proposal entitled “**Bioassay guided screening of some Kenyan medicinal plants for anti-HIV replication activity**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/7675/2000.

6.3.3 Master’s (MSc/MPHE) Supervision (Completed)

1. Wambugu Enoc Njoroge (2023): MSc thesis entitled “**Evaluation of sex selection activity and safety of *Vernonia amygdalina* (Del), *Rubia cordifolia* (Linn) and *Asparagus racemosus* (Willd) in rats**”. Department of Biochemistry, Microbiology and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CTY/PT/38030/2017
2. Katoo Alexander Athanas (2022): MSc thesis entitled “**Genetic and morphological characterization of Pigeon pea (*Cajanus cajan* L) using simple sequence repeat markers**”. Department of Biochemistry, Microbiology and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CE/24523/2012.
3. Stephen Mugambi Maithulia (2022): MSc thesis entitled “**In vitro antimicrobial activity and toxicity of selected medicinal plants used to manage bacterial gastroenteritis in Meru County, Kenya**”. Department of Biochemistry, Microbiology and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CE/25999/2011
4. Awino Duncan (2020): MSc thesis entitled “**Reference intervals for commonly requested hematological parameters in adolescents living in Kilifi County, Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/25502/2011
5. Samuel O Guya (2020): MSc thesis entitled “**Antiplasmodial activities and in vivo safety of extracts and compounds of seven indigenous medicinal plants used traditionally to treat malaria**”. Department of Biochemistry, Microbiology and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/8873/1999.
6. Yego K Kimurgor (2019): MSc thesis entitled “**Snake-antivenom activity of selected medicinal plants extracts from Turkana and Uasin-Gishu Counties of Kenya**”. Department of Biochemistry, Microbiology and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CE/22443/2010.
7. Munene Rhoda Kainyu (2019). MSc thesis entitled “**Establishment of reference ranges for biochemical parameters in children and adolescents of ages 1-17 years in Meru County, Kenya**” - I56/CE/22438/2010
8. Regina Wachuka Mbugua (2019). MSc thesis entitled “**Antiproliferative activity, gene expression profiles and toxicity of selected medicinal plants against cancerous and normal cells**”. Department of Biochemistry, Microbiology, and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CTY/PT/37688/2016.
9. Ileri Moses Munene (2019): MSc thesis entitled “**Analgesic and anti-inflammatory potential of methanolic extracts of *Pistacia aethiopica* Kokwaro and *Warbugia ugandensis* Sprague in mice models**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CE/26199/2014
10. George Musyoki Kakuta (2019): MSc thesis entitled “**Determination of reference intervals for selected biochemical parameters for adolescents in Kilifi County, Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/20543/2012.
11. Njeru Z Gitonga (2019): MSc thesis entitled “**Pharmacological and toxicological study of five selected medicinal plants with traditionally perceived hypoglycemic activity in Embu County**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CE/22441/2010.

12. Dinah J Sawe (2019): MSc thesis entitled "***In vivo* hypoglycemic activity and safety of selected medicinal plants used in the management of diabetes mellitus in Elgeiyo-Marakwet County, Kenya**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/25195/2011.
13. Kimani Lucy Njeri (2017): MSc thesis entitled "**Antidiabetic activity of aqueous extracts of *Piper capense*, *Berberis holstii*, *Sonchus asper*, *Vernonia lasiopus* and *Galinsoga parviflora* in alloxan induced diabetic mice**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CE/26258/2011
14. Njangiru K Isaac (2017): MSc thesis entitled "**Pharmacological and toxicological study of five selected medicinal plants with traditionally perceived hypoglycemic activity in Nakuru County**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CE/22527/2011.
15. Samson Koech Cheruiyot (2017): MSc thesis entitled "**Analgesic, antipyretic and anti-inflammatory potential of Dichloromethane root extract of *Clutia abyssinica* in rats and mice models**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/28505/2014.
16. Lucy Nyokabi Kimani (2017): MSc thesis entitled "Evaluation of glycosylated hemoglobin in healthy individuals and diabetes mellitus patients in Thika level five hospital". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/24140/2013.
17. Emelda G Nyairo (2017): MSc thesis entitled "Changes in immunological, biochemical, hematological and virological parameters of HIV positive patients on antiretroviral therapy in Mbagathi District Hospital, Nairobi". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/10274/2007.
18. Victoria Zawadi Safari (2016): MSc thesis entitled "**Antipyretic, anti-inflammatory and antinociceptive activities of four selected medicinal plants in mice models**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CTY/PT/24941/2013.
19. Otieno O Gordon Felix (2016): MSc thesis entitled "**Genetic diversity of *Dacryodes edulis* provenances from Cameroon used in controlled breeding trials**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/23057/2011.
20. Makori Wycliffe Arika (2016): MSc thesis entitled "**Bioprospecting for hypoglycemic activities and safety of selected plants traditionally used in the management of diabetes mellitus**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/20181/2012.
21. Jim M Njagi (2015). MSc thesis entitled "**Determination of hematological effects of methanolic leaf extracts of *Vernonia lasiopus* (O. Hoffman) and seed extracts of *Solanum incanum* (Linnaeus) in normal mice**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/10104/2008.
22. Abdirahman Y Ahmed (2015): MSc thesis entitled "***In vivo* hypoglycemic activity and safety of five selected medicinal plants traditionally used to manage diabetes mellitus in Machakos County, Kenya**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56F/24335/2011.
23. Mwangi J Mukundi (2015): MSc thesis entitled "***In vivo* hypoglycemic activity and safety in mice of five aqueous plants extracts from Liota Division, Narok County**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/14405/2009

24. Rosaline Daisy Karimi (2015): MSc thesis entitled "**The bacterial flora of Tilapia, *Oreochromis niloticus* and Catfish, *Clarias gariepinus* from earthen ponds in Sagana fish farm and Masinga dam**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7076/2001.
25. Richard M Gitimu (2015): MSc thesis entitled "**Establishment of reference values for some routinely analyzed biochemical parameters for infants and children in Taita Taveta County, Kenya**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CE/22439/2010.
26. Benjamin M Kimeu (2014): MSc thesis entitled "**Evaluation of molluscicidal and anti-schistosomal activities of selected medicinal plants traditionally used in Makueni County, Kenya**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7256/2002.
27. Odipo R Ochieng (2014): MSc thesis entitled "**Characterization of extracellular cellulolytic and xylolytic enzymes from organic waste degrading bacteria**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7333/2002.
28. Shem J Ochieng (2014): MSc thesis entitled "**Molecular characterization of composting bacteria from municipal solid waste disposal sites in Nairobi and Kisumu County, Kenya**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/5764/2003.
29. Susan N Kimuni (2013): MSc thesis entitled "**Pharmacological and toxicological studies of selected medicinal plants used traditionally to manage diabetes mellitus in Kenya**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/13078/2005.
30. Mwebia M Bundi (2012): MSc thesis entitled "**Characterization of toxigenic *Vibrio cholerae* isolates from Kenya, 2007-2010**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/10098/2008.
31. Joshua Ndungu Gikonyo (2012): MSc thesis entitled "**Identification of diarrhoea causing viral agents and molecular characterization of group A rotavirus in children below five years from Mukuru slums, Nairobi County**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CE/11243/2008.
32. Julius Osaso (2012): MSc thesis entitled "**Gene expression profiling during early stages of infection of bovine lymphocytes by the parasite *Theileria parva***". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/5767/2003.
33. Lucy K Mwangi (2012): MSc thesis entitled "**Potential of using Maize stalks grown in Kenya for fuel ethanol production**". Department of Energy Engineering, Kenyatta University, Nairobi, Kenya - I56/5005/2003.
34. Joshua M Njiru (2011): MSc thesis entitled "**The potential of *Agrobacterium* mediated transformation of farmer preferred Sweet Potato genotypes in Kenya**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/10700/2006.
35. Mary K Musyoki (2011): MSc thesis entitled "**The effect of organic and mineral fertilizer on soil microbial communities in Kabete long term experiment, Kenya**". Department of Environmental Sciences, Kenyatta University, Nairobi, Kenya - N50/11298/2004.
36. David N Mutua (2011): MSc thesis entitled "**Development and evaluation of pilot anaerobic and aerobic sequence batch reactors for treating slaughterhouse effluent**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/6512/2003.

37. Wilton M Mbinda (2010): MSc thesis entitled "**Transcriptional profiling of sorghum midge defense responses in sorghum using c-DNA-AFLP**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/11080/2004.
38. Moses Y Otiende (2010): MSc thesis entitled "**Evaluation of Epstein Barr viral load and antibodies in children living in the malaria holoendemic Lake Victoria basin**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/10381/2006.
39. Evans O Omwango (2010): MSc thesis entitled "**Nutrient enrichment of pineapple waste through fungal fermentation for utilization as animal feed to improve livestock production**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/5743/2003.
40. Wilfred K Gatua (2010): MSc thesis entitled "**Evaluation of urinary tubular enzymes as screening markers of renal dysfunction in patients suffering from diabetes mellitus type 2**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/11313/2004.
41. Alice A Juma (2010): MSc thesis entitled "**Establishment of reference values for some analyzed biochemical parameters in adult population in North Rift Valley, Kenya**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/11310/2004.
42. Mary M Masakha (2010): MSc thesis entitled "**Hypoglycaemia in the newborn at Kenyatta National Hospital and response to glucose supplementation in low birth weight**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/5766/2003.
43. Amy W Wahome (2010): MSc thesis entitled "**Toxicity studies of some Kenya plants with hypoglycemic activity used in traditional medicine**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/10877/2004.
44. Kagunda J Kimani (2009): MSc thesis entitled "**Kenya black population forensic data on a sixteen loci microsatellite system**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/5179/2003.
45. Jackson I M'rama (2009): MSc thesis entitled "**Use of full haemogram in monitoring antiretroviral regimen in patients infected with HIV-1**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7267/2002.
46. Sifuna A Wawire (2009): MSc thesis entitled "**Microbiological quality and safety of *Rastrineobola argentea* retailed in Kisumu town markets, Kenya**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/5748/2003.
47. Felix Kinyua (2009): MSc thesis entitled "**The causes and effects of pica habit of pregnant women in Msambweni division, Kwale district, Coast Province, Kenya**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7711/2002.
48. Kishoyian G Manyara (2009): MSc thesis entitled "**Prevalence of iodine deficiency disorders and urinary iodine excretion among primary school children in Makina and Kilimani Schools, Nairobi**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7277/2002.
49. Patrick M Kisabei (2009): MSc thesis entitled "**Assessment of performance of prevention of mother-to-child HIV transmission programme and effects of antiretroviral drugs on selected hematological and biochemical parameters**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/11312/2004.

50. Francis M Mbugua (2008): MSc thesis entitled "**Genetic characterization of wild-type measles viruses from Kenya**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/11496/2004
51. Daniel M Mwangi (2008): MSc thesis entitled "**Subclinical nephrotoxicity caused by occupational silica exposure and smoking among Kenyan Industrial workers**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/6512/2003.
52. Njuguna B Mungai (2008): MSc thesis entitled "**Development and evaluation of a PCR-based procedure for differentiating between *Schistosoma mansoni* and *Schistosoma rodhaini***". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/9082/2000.
53. Maina J Kimando (2008): MSc thesis entitled "**Isolation, characterization and antibiograms of urinary tract infection bacteria from outpatients at the Kenyatta University Health Services Clinic**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7488/2002.
54. Martin N Matu (2008): MSc thesis entitled "***Lactobacilli* species: colonization after treatment for bacterial vaginosis (BV) and their inhibitory potential to BV associated bacteria**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/11305/2004.
55. Andes Z Imbanga (2008): MSc thesis entitled "**Evaluation of the performance and the effects of the antiretroviral programme in Machakos and Mbagathi district Hospitals**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/11316/2004.
56. Rose N Inonda (2008): MSc thesis entitled "**Determination of pesticide residue levels in locally consumed vegetables and their biological effects**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/6238/2003.
57. Carolyne M Kifude (2007): MSc thesis entitled "**Prevalence of hemoglobinopathies in children living in malaria holoendemic Lake Victoria basin**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/5750/2003.
58. Njoroge G Kimani (2007): MSc thesis entitled "**General public and occupational lead exposure in Olkalou, Nyandarua district and selected areas in Nairobi, Kenya**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7709/2004.
59. Ako E Onyango (2007): MSc thesis entitled "**Performance of a 2-element plane reflector augmented flat-plate collector for solar water pasteurization**". Department of Engineering and Technology, Kenyatta University, Nairobi, Kenya - I56/5743/2003.
60. Waweru J Gathirwa (2007): MSc thesis entitled "**Anti-malarial drug interaction of medicinal plants used in the preparation of herbal medicines for malaria**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7260/2002.
61. Charles N Muthaura (2007): MSc thesis entitled "**Evaluation of anti-malarial activity of some Kenyan medicinal plants used in traditional medicine**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/6510/2003.
62. Joan M Njagi (2006): MSc thesis entitled "**Hypoglycemic effects of some Kenyan plants used traditionally in the management of diabetes mellitus in Gachoka division, Mbeere district**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7257/2002.
63. Mwiti C Kibiti (2006): MSc thesis entitled "**Hypoglycemic potential of some Kenyan plants used in traditional medicine in Laikipia and Mbeere districts and Nairobi Province**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7263/2002.

64. Mathew P Ngugi (2006): MSc thesis entitled "**Hypoglycemic activity and histological effects of some Kenyan plants traditionally used to manage Diabetes mellitus in Eastern Province**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7212/2002.
65. Julia W Mwangi (2006): MSc thesis entitled "**The effect of c-AMP modulators on the activity of selected antimalarial drugs**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/6118/2003.
66. John K Sitienei (2006): MSc thesis entitled "**Tissue culture responses of elite Kenyan maize inbred lines via somatic embryogenesis**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7490/2002.
67. Jane J Binott (2006): MSc thesis entitled "**Transformability of Kenyan maize genotypes using *Agrobacterium tumefaciens***". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7481/2002.
68. Lucy A Mambo (2005): MSc thesis entitled "**Establishing realistic sanitiser concentrations and conditions in the control of bacterial contamination in selected export vegetables at Homegrown Prepared Packinghouse**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7270/2002.
69. Mujibi N Fidalis (2005). MSc thesis entitled "**Genetic characterization of West African Dwarf (WAD) goats using microsatellite markers**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7068/2002.
70. Agola L Eric (2005): MSc thesis entitled "**Analysis of genetic diversity of *Schistosoma mansoni* in Kenya using microsatellite markers**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7078/2002.
71. Richard O Oduor (2005): MSc thesis entitled "***In vitro* regeneration of popular Kenyan dryland maize hybrids**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7261/2002.
72. Susan W Gathua (2005): MSc thesis entitled "**Prevalence of *Mycobacterium tuberculosis* and multidrug resistant (MDR) strains of *Mycobacterium tuberculosis* using rifampicin as surrogate marker by Bactec and PCR in Nairobi Hospital**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7123/2001.
73. Anderson N Wambugu (2005): MSc thesis entitled "**Development and evaluation of an improved epitope specific enzyme-linked immunosorbent assay for detecting antibodies to Contagious *Caprine pleuropneumonia***". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7269/2002.
74. Allan J Mgtu (2004): MSc thesis entitled "**Ascertaining metabolic pathway sites in *Orobanchae aegyptiaca pers.* that can be inhibited using anti-metabolites *in vitro***". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/8673/1999.
75. Stanley W King'e (2004): MSc thesis entitled "**The establishment of reference values for some Biochemical parameters for the adult Kenyan population at Kenyatta National Hospital**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/9085/2000.
76. Festus M Tolo (2003): MSc thesis entitled "**A herbal remedy for Herpes simplex virus infection**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya.

77. Rukia M Kibaya (2003): MSc thesis entitled "**Effects of short-term Zidovudine treatment of mother-to-child HIV-1 transmission**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/8871/1999.
78. Lucy N Mimano (2003): MSc thesis entitled "**Isolation, identification and prevalence of diarrhea causing organisms among the population of Mathare North, Nairobi, Kenya**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/8872/1999.
79. Hussein J Kihara (2003): MSc thesis entitled "**Clearance of soluble egg antigen in *Schistosoma haematobium* infection in children after Praziquantel treatment**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/9084/2000.
80. Kigano R Waithira (2003): MPHE thesis entitled "**A survey of factors that drive females to commercial sex work and males to seek sexual services from commercial sex workers (CSW)**". Department of Zoology, Kenyatta University, Nairobi, Kenya.
81. Wamakima F Muregi (2002): MSc thesis entitled "**Anti-plasmodial activities in some Kenyan plants used in Traditional Medicine**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya.
82. Esther N Ngumbi (2002): MSc thesis entitled "**An assessment of kairomones for use as monitoring tool for *Cotesia flavipes***". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya.
83. Muchugi M Alice (2001): MSc thesis entitled "**Genetic variation in the threatened medicinal tree *Prunus africana* in Kenya and Cameroon**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya.
84. Francis M Kinoti (1997): MSc thesis entitled "**The potential of condensed Camel milk in contributing to food security in Greater Baragoi, Samburu district**". Department of Food Science and Technology, University of Nairobi.
85. Kenneth N Lema (1993): MSc thesis entitled "**Glucose Metabolism in *Schistosoma mansoni* infected mice**". Department of Biochemistry, University of Nairobi, Nairobi, Kenya.

6.3.3.1 Master's (MSc/MPHE) Supervision (On Going)

6.3.3.1.1 Thesis Writing

- Warui Lucy Waithera (2019): MSc thesis entitled "**Bioefficacy of dichloromethane-methanolic extracts of *Zingiber officinale* and *Caspsicum frutescent* against *Callosobruchus masculatus***". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CTY/PT/20189/2012.
- Ng'ang'a Murunga Nancy (2016): MSc thesis proposal entitled "**Determination of phytochemical parameters of honey for *Apis mellifera* and *Apis meliponini* from West Pokot County, Kenya**". Department of Chemistry, Kenyatta University, Nairobi, Kenya - I56/CE/27100/20141.
- George Mussa (2014): MSc thesis proposal entitled "**Statistical assessment of Laboratory performance for routine analytical methods Liver and Kidney function tests at Sekou-Toure Hospital, Mwanza, Tanzania**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/10275/2007.
- Mbugua C Kabiro (2013). MSc thesis entitled "**Molecular sex typing of *Allanblackia stuhlmannii* (Engl.)**". Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/11178/2008.

Allan K Wabomba (2016): MSc thesis entitled “**Prevalence of Human papilloma genotypes among the HIV positive and HIV negative women in Nairobi**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/11494/2004.

Saul P Tabu (2010): MSc thesis entitled “**Identification and definition of dynein light chain components of *Schistosoma* species**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/10834/2006.

Gachagua G Wanjiru (2009): MSc thesis entitled “**Antifertility effects of some Kenyan medicinal plants on male albino rats**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/5737/2003.

Kiguru P Kimani (2009): MSc thesis entitled “**The effect of Effective Microorganisms (EM) on sewage water and the environment**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7274/2002.

Lynus JM M'Rewa (2009): MSc thesis entitled “**Specific humoral responses to *Schistosoma mansoni* crude and cloned antigens in primary School children in Makeni District, Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/7120/2001.

Gladys N Wachira (2009): MSc thesis entitled “**Development of an inactivated vaccine for Nairobi sheep disease**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/5745/2003.

6.3.3.1.2 Data Collection

Bunei Kefa (2019): MSc thesis proposal entitled “**Hepatoprotective and nephroprotective activity of Pumpkin and Hyacinth beans against Acetaminophen-induced hepatotoxicity in swiss albino mice**”. Department of Biochemistry, Microbiology and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/37690/2016.

Milka B Ayega (2012): MSc thesis proposal entitled “**Establishment of hematinic activity and safety in some selected medicinal plants used traditionally in the management of anemia in Bomet County**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CE/22446/2010.

Rosemary W Mwangi (2012): MSc thesis proposal entitled “**Toxicity studies of some Kenya plants with hematinic activity used in ethnomedicine in Central Province, Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CE/11626/2008.

Kinyungu C Gitonga (2010): MSc thesis proposal entitled “**Pharmacological and toxicological study of selected Kenyan plants with traditionally perceived hypoglycemic activity in experimental hyperglycemia**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/5763/2003.

Kurui B Kipkosgei (2010): MSc thesis proposal entitled “**Evaluation of serum free baby hamster kidney cell culture media for the production of Foot and Mouth Disease vaccine**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/11490/2004.

Peter M Kaiguri (2009): MSc thesis proposal entitled “**Seroprevalence of Hepatitis B and Hepatitis B surface antibody in voluntary blood donors in Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/11495/2004.

6.4 External Examiner (National)

2020

External Examiner, Department of Medical Biochemistry, School of Health Sciences, Alupe University College, Moi University, P.O. Box 845-50400, Busia, Kenya; 13th November 2017 [27th October 2020] (2019/2020 Academic Year: 16th November 2020 to 20th November, 2020).

2019

External Examiner, Department of Medical Biochemistry, School of Health Sciences, Alupe University College, Moi University, P.O. Box 845-50400, Busia, Kenya; 13th November 2017 (2018/2019 Academic Year: 12th May 2019 to 23rd May, 2019).

2017

External Examiner, Department of Medical Biochemistry, School of Health Sciences, Alupe University College, Moi University, P.O. Box 845-50400, Busia, Kenya; 13th November 2017 (2017/2018 Academic Year: 13th November 2017 to 12th November 2017).

2015

External Examiner, Department of Medical Biochemistry, **School of Medicine and Health Sciences, Kenya Methodist University**, Meru Campus, P.O.Box 267-60200, Meru, Kenya; **6th June 2015** (2013/2014 Academic Year: 5th July 2015 to 10th July 2015).

External Examiner, Department of Biochemistry and Biotechnology, **School of Biological and Health Sciences, Technical University of Kenya**, Haile Selassie Avenue, P. O. Box 52428-00200, Nairobi; **6th June 2015** (2013/2014 Academic Year: 8th June 2015 to 13th June 2015).

External Examiner, Department of Biochemistry, **College of Health Sciences, University of Nairobi**, P.O.Box 30197-00100, Nairobi; **16th March 2015** (2014/2015 Academic Year: 7th May 2015 to 14th May 2015).

External Examiner, Department of Biochemistry, **College of Health Sciences, University of Nairobi**, P.O.Box 30197-00100, Nairobi; **11th December 2014** (2014/2015 Academic Year: 5th January 2015 to 9th January 2015).

2014

External Examiner, Department of Biochemistry, **College of Health Sciences, University of Nairobi**, P.O.Box 30197-00100, Nairobi; **30th October 2014** (2014/2015 Academic Year: 13th November 2014 to 17th November 2014).

External Examiner, Department of Biochemistry and Biotechnology, School of Biological and Health Sciences, Technical University of Kenya, Haile Selassie Avenue, P. O. Box 52428-00200, Nairobi; **21st September 2014** (2013/2014 Academic Year: 6th October 2014 to 17th October 2014).

External Examiner, Department of Biochemistry, **College of Health Sciences, University of Nairobi**, P.O.Box 30197-00100, Nairobi; **4th August 2014** (2013/2014 Academic Year: 12th August 2014 to 18th August 2014).

External Examiner, Department of Medical Biochemistry, **School of Medicine and Health Sciences, Kenya Methodist University**, Meru Campus, P.O.Box 267-60200, Meru, Kenya; **4th July 2014** (2013/2014 Academic Year: 12th July 2014 to 17th July 2014).

External Examiner, Department of Biochemistry, **College of Health Sciences, University of Nairobi**, P.O.Box 30197-00100, Nairobi; **7th April 2014** (2013/2014 Academic Year: 5th May 2014 to 9th May 2014).

2013

External Examiner, Department of Biochemistry, **College of Health Sciences, University of Nairobi**, P.O.Box 30197-00100, Nairobi; **5th December 2013** (2013/2014 Academic Year: 16th December 2013 to 23rd December 2013).

External Examiner, Department of Biochemistry, **College of Health Sciences, University of Nairobi**, P.O.Box 30197-00100, Nairobi; **14th October 2013** (2012/2013 Academic Year: **13th November 2013** to **20th November 2013**).

External Examiner, Department of Medical Biochemistry, **School of Medicine and Health Sciences, Kenya Methodist University**, Meru Campus, P.O.Box 267-60200, Meru, Kenya; **11th July 2013** to **10th July 2016**.

External Examiner, Department of Biochemistry, **College of Health Sciences, University of Nairobi**, P.O.Box 30197-00100, Nairobi; **30th April, 2013** (2012/2013 Academic Year: **16th May 2013** to **20th May 2013**).

2011

External Examiner, Department of Biochemistry and Biotechnology, **Technical University of Kenya** previously '**Kenya Polytechnic University College, University of Nairobi**', Haile Selassie Avenue, P.O.Box 52428-00200 Nairobi, from **15th September 2011**.

2004

External Examiner, Department of Biochemistry, **Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000, Nairobi, from **2nd August 2000** to **1st August 2004**.

2005-2006

External Examiner, Department of Zoology (Applied Physiology and Cellular Biology), College of Biological and Physical Sciences, **University of Nairobi**, P.O.Box 30197, Nairobi; **11th February 2005** to **10th February 2006**.

External Examiner for postgraduate thesis, **Mount Kenya University**, P. O. Box 342-01000, Thika, Kenya since **17th June, 2015**.

Viz:

2016

Kenneth Kipruto Kimengech: MSc thesis entitled "**Determination of errors that compromise the quality of laboratory service delivery at Kenyatta National Hospital, Kenya**". Department of Medical Laboratory Sciences, School of Health Sciences, Mount Kenya **University**, P.O. Box 342-01000, Thika, Kenya (**10th May 2016**) - MMLS/2013/54726.

2015

Wamiti Lawrence Githendu: MSc thesis entitled "**Interaction between entomopathogenic fungus *Metarhizium anisopliae*, *Trypanosoma congolense* and Tsetse fly *Glossina fuscipes fuscipes***". Department of Medical Laboratory Sciences, School of Health Sciences, Mount Kenya **University**, P.O. Box 342-01000, Thika, Kenya (**17th June 2015**) - MMLS/2013/45439.

External Examiner for postgraduate thesis, Graduate School, **University of Nairobi**, P. O. Box 30197-00100, Nairobi, Kenya since **1997**.

Viz:

2020

David Kayaja Wafula: MSc thesis entitled "**Effects of adulterated and reused cooking fat on metabolic syndrome in male Sprague-Dawley rats**". School of Biological Sciences, College of Biological and Physical Sciences, **University of Nairobi**, P.O. Box 30197-00100, Nairobi, Kenya (**21st January 2020**).

2012

Veronica W Kamau: MSc thesis entitled "**Genetic characterization and viral tropism of HIV-1 among patients at Kenyatta National Hospital**". Department of Biochemistry, **University of Nairobi**, P.O. Box 30197-00100, Nairobi, Kenya (**7th June 2012**).

2009

Bosire Carren Moraa: MSc thesis entitled "**A toxicological study of *Millettia usambarensis* stem bark extracts on the mosquito *Aedes aegypti*, Locust *Schistocerca gregaria* and mouse *Mus musculus***". School of Biological Sciences, **University of Nairobi**, P.O. Box 30197-00100, Nairobi, Kenya (27th August 2009).

2008

Selieli Wasike: MSc thesis entitled "**Genetic characterization of selected East African indigenous cattle**". Department of Animal Production, University of Nairobi, P.O.Box 30197-00100, Nairobi, Kenya (29th May 2008).

2006

Joseph Muiruri Kamau: MSc thesis entitled "**Fine mapping of Trypanosomosis resistance loci in murine by haplotype approach**". Department of Biochemistry, **University of Nairobi**, P.O. Box 30197-00100, Nairobi, Kenya.

Sewe Fredrick Osiang'o: MSc thesis entitled "**Use of radioisotopes in detecting allelic variants of MSP2 gene of *Plasmodium falciparum*: A case comparison with agarose gel electrophoresis**". Institute of Nuclear Science, University of Nairobi, P.O. Box 30197-00100, Nairobi, Kenya (13th July 2006).

Kang'ethe Lucy Nyambura: MSc thesis entitled "**Synergistic effects of *Artemisia annua* phytochemicals against *in vitro* cultures of *Plasmodium falciparum***". Department of Zoology, **University of Nairobi**, P.O. Box 30197-00100, Nairobi, Kenya (15th March 2006).

2005

Ogila Omondi Kenneth: MSc thesis entitled "**Studies on the pharmacological potential and toxicological evaluation of the crude extracts of *Asparagus africanus* and *Caesalpinia volkensii***". Department of Zoology, **University of Nairobi**, P.O. Box 30197-00100, Nairobi, Kenya.

Mala George Otieno: MSc thesis entitled "**Elution, purification and partial characterization of immunoglobulin-G bound to normal and pathological human placentae**". Department of Biochemistry, **University of Nairobi**, P.O. Box 30197-00100, Nairobi, Kenya (4th February 2005).

Amos Kung'u Mbugua: MSc thesis entitled "**Isolation and characterization of a *Trypanosoma congolense* gene encoding an antigen recognized by infection serum from Cape Buffalo**". Department of Zoology, **University of Nairobi**, P.O. Box 30197-00100, Nairobi, Kenya.

1997

Onyango David Odongo: MSc thesis entitled "**Evaluation of a simple method of storing mosquito bloodmeals for human DNA profiling**". Department of Zoology, **University of Nairobi**, P.O. Box 30197-00100, Nairobi, Kenya.

External Examiner for postgraduate thesis, **Jomo Kenyatta University of Agriculture and Technology**, P. O. Box 62000-00200, Nairobi, Kenya since 1997.

Viz:

2016

Rutayisire Robert: MSc thesis entitled "**Establishment of adult reference values for some biochemical analytes in a Rwandan population [TM300-1178/2012]**". Department of Medical Laboratory Sciences, School of Biomedical Sciences, College of Health Sciences, **Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya (**14 July 2016**).

2011

Eliud N Mwangi: MSc thesis entitled “**Prevalence and correlates of hyperlactatemia among HIV infected patients on combination antiretroviral therapy containing a nucleoside reverse transcriptase inhibitor**”. Institute of Tropical Medicine, **Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya (23 May 2011).

2010

Eva Kalemera Aluvaala: MSc thesis entitled “**Probing the trans-Sialidase activity of the neuraminidase derived from human influenza A (H3N2) virus**”. Institute of Tropical Medicine, **Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya (21st September 2010).

2009

Robert Were Omenge: MSc thesis entitled “**Toll-like expression and function in the Genital tract of HIV-1 resistant commercial sex workers in Nairobi**”. Institute of Tropical Medicine, **Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya (1st April 2009).

2007

Lawrence Guantai M’Itonga: MSc thesis entitled “**Validity of *Helicobacter pylori* stool antigen test in dyspeptic patients presenting at Kenyatta National Hospital, Nairobi, Kenya**”. Institute of Tropical Medicine, **Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya (5th March 2007).

2005

Osman Abdirarim Abdullah: MSc thesis entitled “**The descriptive epidemiology of *Streptococcus pneumoniae* nasopharyngeal carriage in Kilifi district**”. Institute of Tropical Medicine, **Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya (16th March 2005).

6.5 External Examiner (International)

2019

Appointed as an **External Examiner**, Oluwafunmilayo Dorcas Adegbaaju (2019): PhD thesis entitled “**Nutritional and pharmacological evaluation of *Celosia argentea* (L.) Kuntze: An endangered wild vegetable in the Eastern Cape Province of South Africa**”. **Department of Botany, Faculty of Science and Agriculture, University of Fort Hare, Alice Campus, Alice 5700, South Africa (29th May, 2019).**

2017

Appointed as an **External Examiner**, Jeremiah Oshiomame Unuofin (2017): PhD thesis entitled “**Pharmacological investigation of *Kedrostis africana* (L.) Cogn and *Vernonia mespilifolia* Less used for the management of obesity in the Eastern Cape, South Africa**”. **Department of Botany, Faculty of Science and Agriculture, University of Fort Hare, Alice Campus, Alice 5700, South Africa.**

2015

Appointed as an **External Examiner**, P Arunagiri (2015): PhD thesis entitled “**Effect of Omega-3 fatty acids in combination with Lithium and Aripiprazole in an animal model of mania**”. **Department of Biochemistry and Biotechnology, Annamalai University, Annamalainagar -608 002 Tamil Nadu, India.**

2009

Appointed as an **External Examiner**, Daniel Fitamo Arficho (2009): PhD thesis entitled “**Status, distribution and phytoavailability of heavy metals and metalloids in soils irrigated with wastewaters from Akaki River, Ethiopia: implications for environmental management of heavy metal-metalloid contaminated soils**”. **Department of Biology, Addis Ababa University, Ethiopia.**

2004-2007

Appointed as an **External Examiner**, **Department of Biochemistry, Faculty of Science, Makerere University, P.O Box 7062, Kampala, Uganda** since 22nd June 2004 to 21st June 2007.

6.6 External Peer Reviewer and Examiner (National)

2023

Appointed as an **External Peer Reviewer and Panelist** to assist in reviewing the application and recommending the suitability or otherwise of the candidate for the position of Professor in **Masinde Dedan Kimathi University of Technology, Private Bag 10143; Dedan Kimathi, Nyeri, Kenya (Prof Esther N Magiri)**; 16th February 2023.

2021

Appointed as an **External Peer Reviewer and Panelist** to assist in reviewing the application and recommending the suitability or otherwise of the candidate for the position of Professor in **Masinde Muliro University of Science and Technology, P.O. Box 190-50100; Kakamega, Kenya (Prof Hassan Karakacha Were)**; 25th February 2021.

2014

Appointed **External Reviewer and Panelist** for **MSc Proposal Defense & Seminar** on 22nd to 23rd September 2014 by the Department of Medical Laboratory Sciences, School of Health Sciences, **Mount Kenya University**, P.O. Box 342-01000, Thika, Kenya; 3rd September 2014.

External Reviewer for the 2013 Kenyatta University (KU) Vice-Chancellor's Research Grant proposal entitled '**Identification and determination of potent medicinal plants used against MDR *Mycobacterium tuberculosis* by selected marginalized communities in Kenya**'; Kenyatta University, P.O. Box 43844-00100, Nairobi, Kenya; 27th May 2014.

External Reviewer for PhD Research Proposal for Mr Kennedy Muna Kuria, (Reg/No: PHD/2013/5433) entitled '**Role of cytokines and hormones in the manifestation of gestational diabetes mellitus in pre- and post-natal women attending antenatal clinics in Kiambu County**'; **Mount Kenya University (MKU)**; P.O. Box 342-01000, Thika, Kenya; 9th March 2014 (**22nd May 2014**).

External Reviewer for the 2013 Kenyatta University (KU) Vice-Chancellor's Research Grant proposal entitled '**Assessing the productivity and safety of urban Agriculture in Nairobi County, Kenya**'; Kenyatta University, P.O. Box 43844-00100, Nairobi, Kenya; 17th March 2014.

2017

Appointed as an **External Peer Reviewer and Panelist** to assist in reviewing the application and recommending the suitability or otherwise of the candidate for the position of Associate Professor in **Pwani University, P.O. Box 195-80108; Kilifi, Kenya (Dr Joseph Omar Suhaila)**; 3rd May 2017.

2013

Appointed as an **External Peer Reviewer and Panelist** to assist in reviewing the applications and recommending the suitability or otherwise of the candidate for the position of Associate Professor in **Masinde Muliro University of Science and Technology, P.O. Box 190-50100; Kakamega, Kenya (Dr Hassan Karakacha Were)**; 12th November 2013.

2009

External Reviewer, Jomo Kenyatta University of Agriculture and Technology, P.O. Box 62000-00200, Nairobi, Kenya proposal entitled "**Molecular characterization of wild *Pleurotus* species in Kenya**".

External Examiner for **REPUBLIC OF KENYA, Ministry of Health, Kenya Laboratory Technicians and Technologists Board** (Bachelor of Medical Laboratory Sciences), P.O.Box 20889-00202, Nairobi; 13th July 2009

2008

External Reviewer, Jomo Kenyatta University of Agriculture and Technology, P.O. Box 62000-00200, Nairobi, Kenya proposal entitled “**Improving Kenyan basmati rice quality and production through physico-chemical and molecular characterization**”.

External Examiner for REPUBLIC OF KENYA, Ministry of Health, **Kenya Laboratory Technicians and Technologists Board** (Bachelor of Medical Laboratory Sciences), P.O.Box 20889-00202, Nairobi; 16th December 2008

External Examiner for REPUBLIC OF KENYA, Ministry of Health, **Kenya Laboratory Technicians and Technologists Board** (Bachelor of Medical Laboratory Sciences), P.O.Box 20889-00202, Nairobi; 24th July 2008.

6.7 External Supervision (National)

Silas Kiruki (2008): PhD thesis proposal entitled “**Molecular characterization of enteropathogenic bacteria and protozoa and their antimicrobial resistance levels in river Njoro and Nakuru town tap water**”. Department of Biochemistry and Molecular Biology, **Egerton University**, Njoro, Kenya - SD14/0115/2004.

6.8 Part-Time Lecturer

2005

Appointed **Part-Time Lecturer** in the **Department of Biochemistry, Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya to teach **SBH 3103 Advanced Protein Biochemistry and Enzymology**; 1st November 2005.

Appointed **Part-Time Lecturer** in the **Department of Biochemistry, Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya to teach **SBH 2321 Metabolism and Respiration in Plants**; 15th September 2005.

Appointed **Part-Time Lecturer** in the **Department of Horticulture, Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya to teach **AHS 3104 Advanced Biochemistry**; 2nd September 2005.

2004

Appointed **Part-Time Lecturer** in the **Department of Biochemistry, Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya to teach **SBH 3103 Advanced Protein Biochemistry and Enzymology**; 11th November 2004.

2003

Appointed **Part-Time Lecturer** in the **Department of Biochemistry, Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya to teach **SBH 2400 Metabolic Regulation and Metabolism in mammalian Tissues, SBH 3103 Advanced Protein Biochemistry and Enzymology**, and **SBH 2300 Immunochemistry**; 13th June 2003.

Appointed **Part-Time Lecturer** in the **Department of Biochemistry, Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya to teach **SBH 2400 Metabolic Regulation and Metabolism in Mammalian Tissues and SBH 3103 Advanced Protein Biochemistry and Enzymology**; 19th May 2003.

2002

Appointed **Part-Time Lecturer** in the **Department of Biochemistry, Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya to teach **SBH 2203 Basic Metabolism I and SBH 3102 Advanced Biochemical Techniques and Instrumentation**; 21st August 2002.

Appointed **Part-Time Lecturer** in the **Department of Biochemistry, Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya to teach **SBH 2402 Biochemistry of Microorganisms**; 30th May 2002.

Appointed **Part-Time Lecturer** in the **Department of Biochemistry, Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya to teach **SBH 2300 Basic Metabolism I** and **SBH 3103 Proteins and Advanced Enzymology**; 19th April 2002.

2001

Appointed **Part-Time Lecturer** in the **Department of Biochemistry, Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya to teach **SBH 2401 Biochemical Techniques and Instrumentation III** and **SBH 3102 Advanced Biochemical Techniques and Instrumentation**; 27th August 2001.

2000

Appointed **Part-Time Lecturer** in the **Department of Biochemistry, Jomo Kenyatta University of Agriculture and Technology**, P.O. Box 62000-00200, Nairobi, Kenya to teach **SBH 2304 Protein and Enzymes II**; 4th May 2000.

6.9 External Peer Reviewer and Examiner (International)

2022

Appointed as an **External Peer Reviewer** to assist in reviewing the applications and recommending the suitability or otherwise of candidates for positions of Associate Professor in **University of Cape Coast, Cape Coast, Ghana**; (Dr Foster Kyei; Department of Molecular Biology and Biotechnology); Fax: 233-3321-32484 Email: uccappb@yahoo.com; dhr.sm-appb@ucc.edu.gh; Tel: 03321-32480/3 Direct: 03321-32139, 03321-30863 ext 267/205; 2nd August 2022.

2022

Appointed as an **External Peer Reviewer** to assist in reviewing the applications and recommending the suitability or otherwise of candidates for positions of Associate Professor in **University of Cape Coast, Cape Coast, Ghana**; (Dr Enoch Thaddaeus Quayson; Department of Biochemistry); Fax: 233-3321-32484 Email: uccappb@yahoo.com; dhr.sm-appb@ucc.edu.gh; Tel: 03321-32480/3 Direct: 03321-32139, 03321-30863 ext 267/205; 22nd March 2022.

2020

Appointed as an **External Peer Reviewer** to assist in reviewing the applications and recommending the suitability or otherwise of candidates for positions of Associate Professor in **Makerere University, P.O. Box 7062, Kampala, Uganda** (Dr Hashim F Hawumba; Department of Biochemistry and Sports Science, School of Biosciences, CoNAS); 1st December 2020.

2014

Appointed as an **External Peer Reviewer** to assist in reviewing the applications and recommending the suitability or otherwise of candidates for positions of Associate Professor in **University of Cape Coast, Cape Coast, Ghana**; (Dr Isaac Kojo Angnangsoore Galyuon); Fax: +233-3321-32484; Email: registrar@ucc.edu.gh; Tel: +233 [03321]-32139 vc@ucc.edu.gh; Tel: +233 [03321]-32378/32050; 4th February 2014.

7 PROFESSIONAL/CONSULTANCY

7.1 Networking and Collaborating with External Organizations

2009-2012: Co-Principal Investigator

National Consortium for Health Research (NCHR) Research Leadership Grant Application (RLGA) of **Kenya shillings fourteen million (Ksh 14,000,000/=)** for three years to conduct research on a project

entitled “**Development of New Diagnostic Platform for Comprehensive Pneumonia Diagnosis in Kenya** (Ref No RLGA-09-001/021)” (Participating Institutions Kenyatta University and Kenya Medical Research Institute; Prof Eliud NM Njagi was the Principal Co-Investigator and Coordinator of the Kenyatta University component).

2006-2009: Co-Principal Investigator

East African Regional Programme and Research Network for Biotechnology, Biosafety, and Biotechnology Policy Development (BIO-EARN) grant of **US\$ 1.8 million** to conduct strategic research on “**Development of Efficient Technologies for Sustainable Treatment of High Strength Wastewater in Eastern Africa**” for the period 2006-2009 (Participating Institutions included Kenyatta University, Kenya; Addis Ababa University, Ethiopia; Makerere University, Uganda; and Dar-Es-Salam University, Tanzania; Prof Eliud NM Njagi was the Principal Co-Investigator and Coordinator of the Kenyatta University component).

7.2 Being a Referee for Professional Periodical or Being an Invited Member of an Editorial Board

7.2.1 Review of Professional Periodicals

2022

Reviewer “Journal of Advances in Biology & Biotechnology(JABB)” since 7th April 2022.

Antimicrobial evaluation of biologically synthesized silver nanoparticles using aqueous peel extracts of guava (*Psidium guavaja*) and pumpkin (*Cucurbita pepo*).

2020

Education Editor, “Evidence-Based Complementary and Alternative Medicine” since July, 2020.

2020

Reviewer (After Revision), ‘Evidence-Based Complementary and Alternative Medicine’ since 6th February, 2020.

In vivo antimalarial evaluation of crude extract, solvent fractions and TLC isolated compounds from *Olea europaea* Linn subsp. *cuspidata* (Oleaceae) - 6731485; 7th April 2020.

Reviewer, ‘Evidence-Based Complementary and Alternative Medicine’ since 6th February, 2020.

In vivo antimalarial evaluation of crude extract, solvent fractions and TLC isolated compounds from *Olea europaea* Linn subsp. *cuspidata* (Oleaceae) - 6731485; 6th February 2020.

2014

Reviewer of Abstracts for African Society for Laboratory Medicine (ASLM); 12th May 2014 to 26th May 2014.

2013

Reviewer, ‘Microbiology Research International’ since 14th February, 2013.

The hygienic quality of Camel Milk marketed from North Eastern Province Kenya - MRI-2013-012; 14th February 2013.

2012

Reviewer, “African Journal of Biochemistry Research” since 24th September 2012.

Isolation, purification and biochemical characterization of sailidase from the blood stream form of *Trypanosoma brucei* - AJBR-12-063; 24th September 2012.

Reviewer, “International Journal of Biochemistry and Biotechnology” since 14th September 2012.

Haematological parameters of albino rats fed *Rana galamensis*-based diet - IJBB-12-113; 14th September 2012.

Reviewer, “African Journal of Environmental Science and Technology” since 4th September 2012.

Mass of *Prunus africana* stem barks on Tchabal Mbabo and Tchabal Gang Daba mountain forests, Cameroon - AJEST-11-241; 4th September 2012.

Reviewer, "Journal of Soil Science and Environmental Management" since 19th July 2012.

A study of physico-chemical characteristics of overburden dump materials from selected coal mining areas of Raniganj Coal Fields, Jharkhand, India - JSSEM-12-057; 19th July 2012.

2000

Reviewer, Journal of the Kenya Chemical Society in 2000.

1994-1995

Reviewer, "Comparative Biochemistry and Physiology" in 1994.

7.2.2 Appointed to Membership of Editorial Boards

2018

Member of the Editorial Board of the "**International Journal of Biochemistry and Biomolecules (IJBB)**" from 2nd June, 2018

2017

Member of the Editorial Board of the "**Journal of Advances in Microbiology and Biotechnology (JAMB)**" from 30th July, 2017

1999-2004

Member of the Editorial Committee of the "**International Journal of BioChemiPhysics**" from 1999-2004.

1999-2002

Member of the Editorial Committee of the "**East African Journal of Science**" from April 1999 to February 2002.

7.2.3 Appointment to National, Regional or International Boards as a Consultant

7.2.3.1 Appointment to Membership of National Boards

2005-2008

Appointed by **Minister for Education** as a **Member** of the **Board of Governors** of **Kinthithe Secondary School, P.O. Box 397, Runyenje's, Embu** from 21st April 2005 to 20th April 2008.

2002-2003

Member of the PTA of **Kirwara High School, Thika** from 23rd March 2002 to December 2003.

1999-2003

Member of the Board of Governors of **St. Mary Goretti Girls School-Rukuriri, P.O. Box 125, Runyenje's, Embu** Tel. 0161-62527 from 4th January 1999 to 4th December 2003.

7.3 Consulting for External Academic/Professional Organizations/Institutions

2012

External Consultant for writing the **Strategic Plan** for **Kenya Medical Laboratory Technicians and Technologists Board (KMLTTB)** from 5th to 9th March 2012.

7.4 Membership to Academic/Professional Bodies

1996 to date

Member of the Federation of the African Societies of Biochemistry and Molecular Biology (FASBMB) since 1996.

1993 to date

Member of the Society of Neuroscience for Africa since 1993.

1991 to date

Member of the Biochemical Society of Kenya since 1991.

8 ADMINISTRATIVE HISTORY AND RESPONSIBILITIES

8.1 Recognized University Administrative Positions (such as Registrar; Dean & Associate Dean of a School; Chairperson/Head of Department; Campus Deputy Director; Director of a Unit/Centre/Programme; Examination Co-ordinator at the Departmental/School Level; Head of Section/Unit; Chairman of Senate /University Standing or Ad-Hoc Committee; Members of a Senate Committee or University Board)

At Kenyatta University

Chairman, Department of Biochemistry, Kenyatta University from 1st March 1997 to 6th January, 2000.

As an acting Chairman,

I was teaching, doing research and other duties as well as:

- Being the **Chairman of Departmental Board Meetings**;
- Being the **Chief Examinations Officer** of the Department;
- Making **recommendations with respect to probation, advancement and promotion of academic staff** within the Department;
- Representing the Department on the appropriate **University Committees and other bodies** as required;
- At all times used my best endeavor to ensure that **proper and acceptable standards of teaching and instruction** were maintained in the Department;
- Serving as the **Executive Officer** of the Department of Biochemistry and Biotechnology in the **implementation of Departmental Policy**, as determined by the **Departmental Board** and other **University Authorities** and being **responsible for the day-to-day administration** of the Department.

8.2 Other Responsibilities in the University (such as Warden, Departmental Time-Table, Mentor, Counsellor, Academic Advisor, Campus Programme Coordinator, Initiating New Academic Programmes in the School or Department, Appointment to Acting Positions for Cumulatively not less than six months, Patron or Matron of a Professional or Academic Body)

Appointed by the **Chairman**, Department of Biochemistry, Microbiology and Biotechnology as an **Academic Advisor** to **Masters of Science** and **PhD** in Biochemistry students with effect from 1st January, **2021 (8th January, 2021)**.

Member of the Committee for Disbursement of Kenyatta University Internal Bursary Scheme appointed by the **Vice Chancellor**, Kenyatta University from **6th April 2022** to **5th April 2024**.

Member of the Committee for Disbursement of Kenyatta University Internal Bursary Scheme appointed by the **Vice Chancellor**, Kenyatta University from **20th January 2020** to **5th April, 2022**.

Member, Adhoc Committee appointed by the Chairman, Department of Biochemistry, Microbiology and Biotechnology, Kenyatta University to develop a Diploma Programme in Biotechnology from 12th December, 2019.

Coordinator: Coordinates the **Teaching, Setting, Marking** and **Moderation** of Biochemistry Examinations to Bachelor of Medicine and Bachelor of Surgery, and Bachelor of Pharmacy degree students, Kenyatta University from **30th October 2009** to **2nd April, 2014**.

Member of a Committee appointed by the **Vice Chancellor**, Kenyatta University on **BIOSECURITY** and **BIOPREPAREDNESS** from 14th June to 31st August, **2018**.

Member, School of Pure and Applied Sciences Journal, Editorial Board from 10th October, **2012**.

Member, Adhoc Committee appointed by the **Vice-Chancellor**, Kenyatta University for the establishment of a **“Reference Molecular Diagnostic Laboratory”** via an **MOU** between **Kenyatta University (KU)** and **Family Health International-360 (FHI-360)** from 14th February 2012 to 30th November, **2012**.

Chairman, Adhoc Committee appointed by the **Vice-Chancellor**, Kenyatta University to Develop a **Policy for Checking of Duplication** on **“New and Revised Programmes”** from 1st August to 26th August, 2011.

Member, Adhoc Department of Biochemistry and Biotechnology Committee appointed by the Departmental Chairman, Kenyatta University to develop the **Diploma, and Postgraduate Diploma** programmes and **review the Bachelor’s program** in **Forensic Science** from 1st April to 30th August, 2011.

Member, Adhoc Committee appointed by the **Vice Chancellor**, Kenyatta University on **“Rapid Results Initiative: Fast Tracking Acquisition of PhDs by non-PhD Lecturers”** from 1st June to 10th September, 2011.

Chairman, Adhoc Committee appointed by the **Vice-Chancellor**, Kenyatta University to spearhead collaboration with **Government Chemist, Kenya Bureau of Standards (KEBS)**, and **Kenya Plant Health Inspectorate Service (KEPHIS)** from 18th May 2011 to 30th August, 2011.

Member, Kenyatta University Senate since 23rd December, 2010.

Member, Adhoc Committee appointed by the **Vice-Chancellor**, Kenyatta University to formulate the **Bachelor of Science in Military Studies** degree programme at North Coast Beach Hotel, Kikampala, Mombasa from 1st April, 2010 to 6th April, **2010**.

Member, School of **Pure and Applied Sciences Scholarships and Travel Grants Committee** appointed by the Dean, Kenyatta University from 15th May **2006** to **date**.

Chairman, Adhoc Committee appointed by the **Vice-Chancellor**, Kenyatta University to formulate the **“Sorghum/Alcohol project”** in **2007**.

Member, “Adhoc **Documentation Committee**” appointed by the **Vice-Chancellor**, Kenyatta University to **formulate documents** needed to **inform** and **advertise** University programs in **2007**.

Chairman, Department of Bio**chemistry** and Biotechnology **Strategic Plan Committee**, Kenyatta University since 15th May **2006**.

Member, School of Pure **and Applied Sciences Strategic Plan Committee** appointed by the Dean, Kenyatta University since 15th May, **2006**.

Member, Adhoc Committee **appointed by the Vice-Chancellor**, Kenyatta University to formulate the **“Kenyatta University Strategic Plan 2005-2015”** at North Coast Beach Hotel, Kikampala, Mombasa in **2005**.

Chairman, Adhoc Committee appointed by the **Vice-Chancellor** of Kenyatta University on the **“Appeal of Review of Classification by Isaas Oundo Odwori”** in **2004**.

Member, School of Pure and Applied **Sciences Academic Board** since 4th September, 2003.

Member, Adhoc Committee **appointed by** the **Vice-Chancellor** of Kenyatta University to formulate a proposal for the establishment of An “**Alternative Medicine Research Institute** (The Centre for Complementary Medicine and Biotechnology)” in 1999.

Acting Chairman, Faculty of Science, Faculty Board of Postgraduate Studies Committee, Kenyatta University, from 18th November 1998 to 27th January, 1999.

Member, Adhoc Committee **appointed by** the **Vice-Chancellor**, Kenyatta University to develop a proposal entitled “**Development of bioactive compounds from Kenyan Plants for the management of Human and Plant Diseases: a sustainable approach**” in 1998.

Member, Adhoc Committee **appointed by** the **Vice-Chancellor** of Kenyatta University to formulate a proposal for the creation of an “**Industrial Estate between Kenyatta University and Capital Normal University of China**” in the Faculty of Science in 1998.

Member, Faculty of Science, Income **Generating Committee**, Kenyatta University from January 1998 to November, 2001.

Member, Faculty of Science Executive Committee, Kenyatta University from 1st March 1997 to 6th January, 2000.

Member, Kenyatta University **Senate** from 1st March 1997 to 6th January, 2000.

Member, Senate Committee on Printing and Publications, Kenyatta University from 1st March 1997 to 6th January, 2000.

Member, Senate Committee on Students Disciplinary, Kenyatta University from 1st March 1997 to 6th January, 2000.

Member, Council Committee on Staff Appointments and Promotions (Academic/Non-Academic Appointments and Promotions), Kenyatta University from 1st March 1997 to 6th January, 2000.

Member, Council Committee on the Senior/Junior Board of Discipline, Kenyatta University from 1st March 1997 to 6th January, 2000.

At University of Nairobi

8.3 Recognized University Administration Positions (such as Registrar; Dean & Associate Dean of a School; Chairperson/Head of Department; Campus Deputy Director; Director of a Unit/Centre/Programme; Examination Co-ordinator at the Departmental/School Level; Head of Section/Unit; Chairman of Senate /University Standing or Ad-hoc Committee; Members of a Senate Committee or University Board)

Acting Chairman, Department of Biochemistry, University of Nairobi, from 1994 to 1995.

8.3.1 Other Responsibilities in the University (such as Warden, Departmental Time-Tabler, Mentor, Counsellor, Academic Advisor, Campus Programme Coordinator, Initiating New Academic Programmes in the School or Department; Appointment to Acting Positions for Cumulatively not less than six months, Patron or Matron of a Professional or Academic Body)

Elected Faculty of Medicine Representative, University of Nairobi Senate from 1994 to 27th February, 1997.

Coordinator of the teaching of Biochemistry to the Master of Science in Animal Production students, Department of Biochemistry, University of Nairobi in 1994.

Coordinator of the teaching of Biochemistry to the Master of Science in Biochemistry course entitled “**Biochemistry of Mammalian Parasites**” in the Department of Biochemistry, University of Nairobi from 1991 to 1997.

Member, Faculty of Science Environmental Studies Committee, University of Nairobi from 1991 to 1997.

8.4 Initiating/Developing New Teaching/Academic Programmes in Departments/School/University

- 2011-2012: Participated in the development of:
Diploma in Forensic Science
Postgraduate Diploma in Forensic Science
- 2010: Participated in the development of:
Bachelor of Science in Military Studies
- 2007-2008: Initiated and participated in the development of:
Bachelor of Science in Forensic Science;
Bachelor of Science in Cell and Molecular Biology
- 2002: Initiated and participated in the development of:
Bachelor of Science in Biotechnology;
Bachelor of Science in Medical Laboratory Sciences.
- 1997 - 2000: Initiated, developed and implemented new under - and post-graduate programs in the Department of Biochemistry and Biotechnology, Kenyatta University from 1st March, 1997 to 6th January, 2000.
viz:
Bachelor of Science in Biochemistry;
Master of Science in Biochemistry;
Master of Science in Medical Biochemistry
Master of Science in Biotechnology;
Master of Science in Infectious Disease Diagnosis;
Recruited **19** Lecturers to teach under- and post-graduate programs.

9 COMMUNITY ENGAGEMENT AND OTHER CONTRIBUTIONS

9.1 Attracting Research and Development Funding

9.1.1 External Grants

1. 2016: Co-Principal Investigator

National Commission for Science, Technology and Innovation (NACOSTI) **Grant of Kenya Shillings One Hundred and sixty Thousand only (Ksh 160,000/=) for one year** to conduct research on a project entitled “**Pharmacological and toxicological study of five selected medicinal plants with traditionally perceived hypoglycemic activity in Embu County**” (Ref No NACOSTI/RCD/ST&I/7TH CALL/MSc/175) 25TH APRIL 2016^{GZN}

2. 2016: Co-Principal Investigator

National Commission for Science, Technology and Innovation (NACOSTI) **Grant of Kenya Shillings One Hundred and Ninety Thousand only (Ksh 190,000/=) for one year** to conduct research on a project entitled “**Pharmacological and toxicological study of five selected medicinal plants with traditionally perceived hypoglycemic activity in Nakuru County**” (Ref No NACOSTI/RCD/ST&I/7TH CALL/MSc/176) 25TH APRIL 2016^{KN}

3. 2015: Co-Principal Investigator

National Commission for Science, Technology and Innovation (NACOSTI) **CHAIRSHIP Grant of Kenya Shillings Seventy Five Million only (Ksh 75,000,000/=) for five years to conduct research on a project entitled “Production of bottled biomethane and organic fertilizer from biomass waste for wealth creation and biodiversity conservation in rural communities” [Defended & corrections effected; awaiting the final verdict]**.

4. 2016: Co-Principal Investigator

National Commission for Science, Technology and Innovation (NACOSTI) **Grant of Kenya Shillings Nine Hundred and Fifty Thousand only (Ksh 950,000/=) for three years to conduct research on a project entitled “In vivo hypoglycemic activity and safety of *Triticum aestivum*, *Hordeum vulgare*, *Urtica massaica* and *Cyananchem viminalis* (Ref No NACOSTI/ST&I/15TH CALL PhD/091)^{GKN}**.

5. 2014: Co-Principal Investigator

National Commission for Science, Technology and Innovation (NACOSTI) **Grant of Kenya Shillings Seven Hundred Thousand only (Ksh 700,000/=) for three years to conduct research on a project entitled “Use of molecular markers in monitoring Artemether-Lumefantrine drug resistance to *Plasmodium falciparum* causing uncomplicated malaria in Kenya (Ref No NACOSTI/ST&I/7TH CALL PhD/008)^{GKI}**.

6. 2011: Co-Principal Investigator

National Council for Science and Technology (NCST) **Innovation Grant of Kenya Shillings One Million and Fifty-Nine Thousand only (Ksh 1,059,000/=) for three years to conduct research on a project entitled “Determination of HIV genotypes and subtypes among refugees in Kenya (Ref No NCST/5/003/3rd CALL PhD/128)^{AI}**.

7. 2010: Co-Principal Investigator

National Council for Science and Technology (NCST) **Innovation Grant of Kenya Shillings One Million Two Hundred Thousand only (Ksh 1,200,000/=) for three years to conduct research on a project entitled “Bioprospecting of antidiabetic compounds from five selected Kenyan medicinal plants used traditionally in the management of diabetes mellitus (Ref No NCST/5/0032/2nd CALL PhD/102 – RIG/03A)^{GMK}**.

8. 2009-2012: Co-Principal Investigator

National Consortium for Health Research (NCHR) Research Leadership Grant Application (RLGA) of Kenya Shillings Fourteen Million only (Ksh 14,000,000/=) for three years to conduct research on a project entitled “Development of New Diagnostic Platform for Comprehensive Pneumonia Diagnosis in Kenya (Ref No RLGA-09-001/021)”.

9. 2006-2009: Co-Principal Investigator

East African Regional Programme and Research Network for Biotechnology, Biosafety, and Biotechnology Policy Development (BIO-EARN) grant of US\$ 1.8 million to conduct strategic research on “Development of Efficient Technologies for Sustainable Treatment of High Strength Wastewater in Eastern Africa” for the period 2006-2009.^{FK}

10. 2005-2008: Co-Principal Investigator

International Atomic Energy Agency (IAEA) research grant of US\$ 12,000 to conduct collaborative research between Kenya Medical Research Institute and the Department of Biochemistry and Biotechnology, Kenyatta University on a project entitled “Bioassay guided screening of some Kenyan Medicinal plants for anti-HIV replication activities” for one year (1/6/2005-31/5/2008)^{JK}.

11. 2007-2008: Principal Investigator

AICAD research and development support for poverty reduction of US\$ 20,000 for one year to conduct research on the project entitled “Consumptive waste management for sustainable Urban Agriculture (Ref No B/FS/EC/CD/036/K)^{ENMN}.

12. 2005-2006: Principal Investigator

AICAD research and development support for poverty reduction of **US\$ 18,000** for one year to conduct research on the project entitled “**Consumptive waste management for sustainable Urban Agriculture** (Ref No B/FS/EC/CD/036/K)”^{ENMN}.

13. 2005: Principal Investigator

EM Technologies limited research and development support of **US\$ 4,000** to conduct research on the “**Assessment of EM technology impacts on the environment**”^{ENMN}.

14. 1999: Co-Principal Investigator

The African Academy of Sciences Capacity Building in Forestry Research Grant of **US\$ 11,600** to train Alice Muchugi Mwangi for the degree of MSc in Biotechnology in the Department of Biochemistry, Kenyatta University on the “**Effects of methods of propagation on Nodulation and N-fixation in *Calliandra calothyrsus* (Meissn) *Calliandra***”^{AMM}.

9.1.2 Internal Grants

15. 2000: Principal Investigator

Kenyatta University Vice Chancellor’s Research Grant of **Ksh 500,000/=** to conduct research on the project entitled “**Maize-legume improvement in Eastern Kenya by use of boma manure (farm yard manure) as rock phosphate solubilizing agent**”^{ENMN}.

16. 1998-1999: Co-Principal Investigator

Kenyatta University Vice Chancellor's Research Grant of **Ksh 500,000/=** to conduct research on the “**Exploitation of some Kenyan medicinal plants for anti-malarial and larvicidal activity**”^{ION}.

9.2 Community Service and Outreach (such as Member of School Board, Community Based Projects Appointment to National/Regional/International Boards)

9.2.1 Appointment to Membership of School Boards

2005-2008

Appointed by **Minister for Education** as a **Member** of the **Board of Governors** of **Kinithie Secondary School, P.O. Box 397, Runyenje’s, Embu** from 21st April 2005 to 20th April 2008.

2002-2003

Member of the PTA of **Kirwara High School, Thika** from 23rd March 2002 to December 2003.

1999-2003

Member of the **Board of Governors** of **St. Mary Goretti Girls School-Rukuriri, P.O. Box 125, Runyenje’s, Embu** Tel. 0161-62527 from 4th January 1999 to 4th December 2003.

9.2.2 Appointment to Membership of Institutional Welfare Associations

2021

Elected **Chairman** of **Kenyatta University Embu Staff Welfare Association (KUESWA)** from **19th November, 2021** to **Present**.

2019

Elected **Chairman** of **Kenyatta University Embu Staff Welfare Association (KUESWA)** from **12th October, 2019** to **18th November 2021**.

2017

Elected **Chairman** of **Kenyatta University Embu Staff Welfare Association (KUESWA)** from **19th September, 2017** to **12 October, 2019**.

2015

Elected **Vice-Chairman** of **Kenyatta University Embu Staff Welfare Association (KUESWA)** from **19th September, 2015** to 18th September, 2017.

2013

Elected **Vice-Chairman** of **Kenyatta University Embu Staff Welfare Association (KUESWA)** from **14th September, 2013** to **18th September, 2015**.

9.2.3 Appointment to Membership of Community Based Organization(s)

2000

Chairman of the Board of Advisors of **Families, Orphans and Children Under Stress (FOCUS)**, a Community Based Organization (CBO) in Ruiru Municipality in Thika District since 2000 to 2010.

9.2.4 Recognition, Awards and Honours

1996

British Council Technical Training Development Award for Postdoctoral training in the Department of Medical Parasitology, London School of Hygiene and Tropical Medicine, University of London, London, UK.

British Council Technical Training Development Award for Postdoctoral training as a Visiting Research Fellow in the Department of Biology, BirkBeck College, University of London, London, UK.

1987 - 1991

British Council Technical Training Development Award for training for the Doctor of Philosophy degree in Biochemistry in the Department of Biochemistry and Molecular Biology, University College and the Middlesex School of Medicine, University College London, University of London, London, UK.

1983 - 1987

German Academic Exchange Service (DAAD) Scholarship for training for the Master of Science degree in Biochemistry in the Department of Biochemistry, University of Nairobi, Kenya.

1979 - 1983

Government of Kenya Scholarship for undergraduate training for the Bachelor of Science degree in Biochemistry & Chemistry in the University of Nairobi, Kenya.

9.3 Any Other Sub-Category as Determined by Individual Universities (being Invited to a Conference as Guest Speaker/Discussant, Motivational Speaker, being Invited as an Adjudicator at County level and above in Music/Film/Science/Drama Festival/Art Exhibition/Sports and Games Competition/Food Tasting Event; Initiating and/or Leading Research Project/or Developing Programmes External to the University

9.3.1 Initiating/Leading Research Project

2007-2008: Principal Investigator

AICAD research and development support for poverty reduction of **US\$ 20,000** for one year to conduct research on the project entitled "**Consumptive waste management for sustainable Urban Agriculture** (Ref No B/FS/EC/CD/036/K)".

2005-2006: Principal Investigator

AICAD research and development support for poverty reduction of **US\$ 18,000** for one year to conduct research on the project entitled "**Consumptive waste management for sustainable Urban Agriculture** (Ref No B/FS/EC/CD/036/K)".

2005: Principal Investigator

EM Technologies limited research and development support of US\$ 4,000 to conduct research on the “**Assessment of EM technology impacts on the environment**”.

9.3.2 Current Research Interests

Schistosomiasis: Chemotherapy, Pathology, Biotechnology and Biochemistry; Biochemistry, Chemotherapy and Pathogenesis of Protozoans, Bacteria and Viruses; Nutritional Biochemistry; Traditional and Modern Biotechnology; Environmental Biotechnology.

9.4 Development of Programmes External to Kenyatta University

2014

External Consultant for the Development of a Core curriculum for Bachelor of Science in Medical Laboratory Sciences (BSc MLSc) for Kenya Medical Laboratory Technicians and Technologists Board (KMLTTB) sponsored by **Partnership for Advanced Clinical Education (PACE)** Project, Department of Clinical Medicine and Therapeutics, **University of Nairobi**, Kenyatta National Hospital, P.O. Box 19676-00200, Nairobi, Kenya in collaboration with **Kenya Medical Laboratory Technicians and Technologists Board (KMLTTB)**; 8th July, 2014 (8th July 2014 to 3rd September 2014).

2011

External Reviewer, Bachelor of Science in Medical Laboratory Sciences (BSc MLSc) and LOG BOOKS for Kenya Medical Laboratory Technicians and Technologists Board (KMLTTB) sponsored by **University of Maryland** and **University of Nairobi** at **Enashipai Resort and Spa, Moi South Lake Road, Naivasha** (P.O. Box 75332-00200, Nairobi) from 30th November to 2nd December 2011.

9.5 Convening and Coordinating Conferences

2000

Member of the Organizing Committee of the 5th Biochemical Society of Kenya Annual Conference meeting on Biochemistry and Biotechnology for Improvement of Health and Food Resources held at the, Department of Biochemistry, University of Nairobi, Kenya from 2nd to 3rd October 2000.

1996

Member of the Local Conference Organizing Committee of the First Pan-African Conference on Biochemistry and Molecular Biology at UNEP, Nairobi, Kenya from 2nd to 6th September, 1996 incorporating the launching of the Federation of African Societies of Biochemistry and Molecular Biology (FASBMB).

9.6 Other Appointments

9.6.1 Internal Examination

Jackson Ireri Mrama (2019): **PhD** thesis entitled “**Changes in serum levels of erythropoietin, C-reactive protein, tumour necrosis factor- α , and interleukin-6 in HIV infected patients**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/25779/2011

Makori Wycliffe Arika (2019): **PhD** thesis entitled “**Phytochemical profile, antiobesity, cognitive enhancing, neurobehavioral and antioxidant effects of dichloromethane leaf extract of Gnidia glauca (Fresen)**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/37010/2016.

Wilfred Kimani Gatua (2019): **PhD** thesis entitled “**Evaluation of acid-base balance and routine biochemistry parameters in patients with chronic kidney disease and diabetic ketoacidosis**”. Department of Biochemistry, Microbiology and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/23321/2013.

Jackson Ireri Mrama (2018): **PhD** thesis entitled “**Changes in serum levels of erythropoietin, C-reactive protein, tumour necrosis factor- α , and interleukin-6 in HIV infected patients**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/25779/2011.

Joshua Mugendi Njiru (2015): **PhD** thesis entitled “**Genetic engineering approach in the control of Cassava brown streak and bacterial blight disease**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/24429/2011.

Lydia Nanjala Wamalwa (2015): **PhD** thesis entitled “**Genetic transformation of selected African sweet potatoes (*Ipomoea batatas*) to enhance Weevil resistance and evaluate post-harvest toxic fungal infection to damaged roots**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/11942/2007.

Odeny P Ojola (2014): **PhD** thesis entitled “**Evaluation of enhanced resistance against *Colletotrichum gloeosporioides* pathogen in Cassava over-expressing Rice thaumatin-like protein (PR-5) gene**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/23206/2010.

Lydia U Kaduka (2012): **PhD** thesis entitled “**The use of novel biochemical markers in coronary heart disease risk assessment among an urban population in Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/15694/2005.

Silas Kiruki (2011): **PhD** thesis entitled “**Molecular characterization of enteropathogenic bacteria and protozoa and their anti-microbial resistance levels in river Njoro and Nakuru town tap water**”. Department of Biochemistry and Molecular Biology, Egerton University, Njoro, Kenya - SD14/0115/2004.

Allan J Mgtutu (2011): **PhD** thesis entitled “**Development of maize streak virus (MSV) disease resistance in tropical maize using peptide aptamers**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/15303/2005.

Alakonya E Amos (2011): **PhD** thesis entitled “**Use of RNA interference and overexpression of purple acid phosphatase genes in management of parasitic plants**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/10948/2007.

Mebeaselassie Andargie (2010): **PhD** thesis entitled “**Development of a genetic linkage map and quantitative trait loci (QTL) analysis in cowpea, *Vigna unguiculata* (L.)**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/11235/2006.

Jane BW Mugendi (2008): **PhD** thesis entitled “**Assessment of the effects of processing methods for 3, 4-Dihydroxy-L-Phenylalanine (L-DOPA) reduction on *Mucuna pruriens* L. protein quality**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I84/15117/2004.

Jane M Ngaira (2005): **PhD** thesis entitled “**Isolation and characterization of predominant Variant Antigen Types (pVATs) of *Trypanosoma evansi* stocks in Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya.

Simon Kanga (2003): **PhD** thesis entitled “**Development and application of genetic markers linked to quantitative trait loci (QTL) controlling resistance to Trypanosomosis on bovine chromosome-7**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya.

Keziah Moraa Omenge (2018): **MSc** thesis entitled “**Impact of phytoplasma infection on phytohormone levels and phloem mass flow in Nap[er] grass in Western Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/33259/2015

Mweu Shadrack Muindu (2017): **MSc** thesis entitled “**Lipid profile in normal pregnancy and in pregnancy induced hypertension**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CE/26251/2011.

Onyango Tony Omondi (2017): **MSc** thesis entitled “**Effects of Maalox Plus antacid and Purecal calcium supplements on liver and kidney function following heavy alcohol intake in rats**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CTY/PT/24940/2013.

Peter Nthiga Mwangi (2016): **MSc** thesis entitled “**Antipyretic and antinociceptive properties of methanolic extracts of *Harrisonia abyssinica* Oliv. and *Landolphia buchananii* (Hallier f.) stapf in animal models**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/27046/2014.

Abuto John Otieno (2016): **MSc** thesis entitled “**Phytochemical profiles and antimalarial activity of *Warburgia ugandensis* extracts from different populations across the Kenyan Rift Valley**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/23055/2011.

Albina Thira Waitthaka (2016): **MSc** thesis entitled “**Impact of child malnutrition on *P. falciparum* specific IgG antibody and T-cell responses in Kilifi County, Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/21022/2012.

Ibrahim Ndungu Mwangi (2016): **MSc** thesis entitled “***Schistosoma mansoni* susceptibility to Praziquantel in endemic localities in Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CE/26257/2011.

Mwangi Boniface Maina (2015): **MSc** thesis entitled “**Antinociceptive and anti-inflammatory potential of dichloromethane methanolic extract of *Caesalpinia volkensii* and *Maytenus obscura* in animal models**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CE/24661/2012.

Juma Kelvin Kisaka (2015): **MSc** thesis entitled “**Effects of *Urtica dioica* on liver function following Acetaminophen induced hepatotoxicity in mice**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CE/24334/2011.

Ouma Seth Otieno (2015): **MSc** thesis entitled “**Physico-chemical and bacteriological quality of water from five selected rural catchment areas of Lake Victoria basin in Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/20570/2010.

Mutegi Sammy Muraguri (2015): **MSc** thesis entitled “**Genetic characterisation of *Populus ilicifolia* populations in Kenya as revealed by amplified fragment length polymorphism (AFLP) markers**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/21178/2012.

Crispus Musyoki Mbaluto (2014): **MSc** thesis entitled “**Characterisation and development of propagation spawns for selected wild edible mushrooms from Aberdare National Forest, Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/20401/2010.

Kambona Carolyn Mukiri (2014): **MSc** thesis entitled “**Beta-glucan trait inheritance in *Hordeum vulgare* L. (Barley) using recombinant inbred lines populations**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/CE/14404/2009.

Chaptoo Tracey (2014): **MSc** thesis entitled “**Evaluation of quantity and quality characteristics of biodiesel produced from *Jatropha curcas* in Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/12923/2009.

Munyasya Joan Ndumi (2014): **MSc** thesis entitled “**Biochemical effects of sewage pollution on the benthic organism *Nerita polita***”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/23065/2011.

Joseph Fulakeza (2014): **MSc** thesis entitled “**Evaluation of the effectiveness of antimalarial interventions during pregnancy in Blantyre, Malawi**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56F/21877/2010.

James K Karanja (2013): **MSc** thesis entitled “**Evaluation of nutritional composition of pumpkin, *Cucurbita spp* collected from Eastern and Central Kenya**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/10110/2008.

Mercy W Macharia (2012): **MSc** thesis entitled “**Population structuring and diversity of East African Taro, *Colocasia esculenta* (L.) Schott**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/12254/2009.

Celestine K Dwini (2012): **MSc** thesis entitled “**Protein-protein interactions associated with *Trypanosoma brucei* splicing factor SF3a60**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/12253/2009.

Ashiemi S Nyakowa (2012): **MSc** thesis entitled “**Use of cELISA in verification of trypanocidal drug use as a cause of treatment failure in Lamu district**”. Department of Biochemistry and Biotechnology, Kenyatta University, Nairobi, Kenya - I56/5755/2003.

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