

CURRICULUM VITAE:

1. Personal Particulars.

Name and Address	JOSEPH J.N. NGERANWA P. O. Box 43844, Nairobi, Kenya Tel. 0202017985 (Res) Mobile. 0722268093 Email: ngeranwa.joseph@ku.ac.ke
Date of birth:	1958
Place of birth:	Embu, Kenya
Nationality:	Kenyan
Marital status:	Married
Religion	Christian

2. Academic Qualification:

Associate Professor (*Medical Biochemistry*)

University Education

1980 - 1985	University of Nairobi – Bachelor of Veterinary Medicine
1988- 1990	University of Nairobi- [M.Sc- Veterinary Medicine (Parasitology)]
1993-1996	University of Pretoria- [Ph.D. - Parasitology]. My Ph.D is entitled, “characterisation of <i>Anaplasma</i> parasites from elands by Molecular Biology techniques, analysis of wildlife sera for <i>Anaplasma</i> antibodies by competitive inhibition ELISA and pathogenesis studies of these parasites in cattle and sheep.”

3. Scholarship/Fellowship

1994	One year scholarship from the Department of Agriculture, Pretoria-South Africa.
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4. Working Experience:

Current Position

Ass Professor 2013

Previous Positions

1. Jan. 1980 - Oct. 1980 -Teaching as untrained teacher at Nyangwa Secondary School.

2. 1985-1987- CHEMOTHERAPY OF TRYPANOSOMIASIS PROJECT Dealing with Research on drug sensitivity, resistance and survey of trypanosomiasis.

3. October 1988- August 1990. (M.SC. Training – University of Nairobi)

4. 1991 - 1996 -WILDLIFE DISEASE RESEARCH PROJECT this was a branch of Kenya Agricultural Research Institute. Dealing with research on wildlife diseases which also affect Domestic animals, specifically;

1. Characterisation of *Anaplasma* isolated from eland (*Taurotragus oryx*) in relation to *Anaplasma marginale*, *Anaplasma centrale* and *Anaplasma ovis*, its pathogenesis in sheep and cattle,
2. Evaluation of potential *Anaplasma* isolates from eland as vaccine strains and
3. Elucidation of mode of transmission for these *Anaplasma* isolates.
4. Immunisation of cattle by infection and treatment method using buffalo derived *Theileria* isolates

5. 1994- 1996 -(Ph.D Training- University of Pretoria)

1997 – 1999 -KARI East Coast Fever Immunisation Programme based at NVRC Muguga.

January 2000 to 2008 Lecturer at Kenyatta University, Biochemistry Department.

August 2008 to August 2013 Senior Lecturer, Biochemistry and Biotechnology

August 2013 to Date Associate Professor (*Medical Biochemistry*)

5. Teaching Experience

(i). Undergraduate Teaching

1. Biochemical pharmacology I and II
2. Pharmacognosy

3. Analytical Biochemistry
4. Pharmaceutical Chemistry
5. Cellular and Molecular Biology
6. Experimental Animal Science
7. Pharmaceutical Chemistry

(ii). Postgraduate Teaching

1. Molecular Techniques for Mycobacteria
2. Diagnosis of Bacterial Infections
3. Biochemistry of Antimicrobial Action
4. Biochemical Pathology I and II
5. Molecular Aspects of Disease

(iii). Part-time Teaching: *Jomo Kenyatta University of Agriculture & Technology*

<u>Year</u>	<u>Department</u>	<u>Unit</u>
2002	Department of Biochemistry	Endocrinology
2003	Department of Botany	Pharmacology
2004	Department of Botany	Pharmacology
2005	Department of Botany	Pharmacology

6. External Examination

(i). Technical University of Mombasa- **All Biochemistry and Biotechnology**

Programme units

(ii). Jomo Kenyatta University of Agriculture and Technology- **Master of Science Theses**

(iii) **Mount Kenya University- Master of Science Thesis**

7. Formulation and Review of Programs

A . Formulation

1. **Bachelor of Science in Biotechnology (2002).**
2. **Bachelor of Science in Medical Laboratory Sciences(2002)**
3. **Bachelor of Science Forensic Science (2008)**
4. **Bachelor of Science Molecular Cell Biology (2008)**
5. **Diploma in Forensic Science (2011)**
6. **Postgraduate Diploma in Forensic Science (2011)**

B. Review

1. Bachelor of Biochemistry (2007, 2012)
2. Bachelor of Biotechnology (2007, 2012)
3. Master of Science Biochemistry (2007, 2012)
4. Master of Science Medical Biochemistry (2007, 2012)
5. Master of Science Biotechnology (2007, 2012)

8. Postgraduate Supervision and Research Activities

A. Successful Supervision

(i) MSc

1. **Lucy Nyokabi Mimano (Reg. I56/8872/1999): (MSc.- Graduated 2003). Title:** “Diarrhoea causing organisms in human population of Mathare, Nairobi, Kenya.”
2. **Stanley King’e Waithaka (Reg. I56/9085/2000): (MSc.- Graduated 2004). Title:** “The establishment of reference ranges for some routinely analysed biochemical parameters for adult Kenyan population at Kenyatta National Hospital.”
3. **Mambo Lucy A. Reg. No. I56/7270/2002 (MSc.- Graduated 2005). Title:** “Establishing realistic antiser concentrations and conditions in the control of bacterial contamination in selected export vegetables at Homegrown prepared packaging house.”
4. **Gathua W. Susan Reg. No. I56/7123/2001 (MSc.- Graduated 2005) Title:** “Isolation and identification of multidrug resistant (MDR) strains of *Mycobacterium tuberculosis* using rifampicin as a surrogate marker.”
5. **Sophei Matu Reg. No. I56/7259/2002 (MSc. – Graduated 2005). Title:** “Determination of the Biocidal Performance of Sodium Hypochlorite in Smear Microscopy for Diagnosis of Tuberculosis in absence of a Safety Cabinet”
6. **Ngugi Mathew Piero Reg. No. I56/7212/2002 (MSc.- Graduated 2006). Title:** ” Evaluation of hypoglycaemic activity of some Kenyan plants used in traditional medicine for treatment of diabetes mellitus.”
7. **Murugi Joan Njagi Reg. No. I56/7257/2002 (MSc.- Graduated 2006). Title:** “Hypoglycemic effects of some antidiabetic plants used in traditional medicine in Kenya.”
8. **Cromwel Kibiti Reg No. I56/7263/2002 (MSc.- Graduated 2006). Title:** “Determination of hypoglycaemic potentials from some Kenyan plants used in traditional medicine”
9. **Mwangi Julia Wangui Reg No. I56 (MSc.- Graduated 2006). Title:** “The effects of cyclic adenosine monophosphate (cAMP) modulators on activity of selected anti-malarial drugs.”
10. **Karanaja Peter Kamau Reg. No. I56/7273/2002 (MSc. Graduated 2007). Title:**

“Assessment of Bacteriological and Physico-Chemical qualities of Standpipe water stored in food kiosks in Huruma, Nairobi, Kenya.”

11. **Maina George Gachara. Reg. No. I56/5746/2003. (M.Sc. Graduated 2007).**Title: “Antigenic and Molecular Characterization of Influenza Viruses Isolated from Patients with Respiratory tract Infections in Nairobi”
12. **Kimani Thuo Francis Reg. No. I56/6232/2003. (M.Sc. Graduated)**
Title:”Characterization of antimalaria Drug resistant *Plasmodium falcipurum* isolates using dot blot hybridization technique”
13. **Karanja W.S.M. Reg. No. I56/6539/2003. (M.Sc. Graduated).** Title: “Adaptation of an Enzyme Immunoassay for the detection of Diminazene Aceturate in animal tissues”
14. **Mbugua Francis Muturi Reg. No. I56/11496/2004 (M.Sc. Graduated).** Title: “Genetic characterization of wild-type measles viruses from Kenya”.
15. **Kimani Peter Chege Reg. No. I56/6236/2003 (M.Sc. Graduated).** Title: “evaluation of trypanocidal activity of some selected Kenyan medicinal plants on *T. evansi* “
16. **Nyakundi,Ruth Kerubo. Reg. No. I56/5751/03 (MSc. Graduated).** Title: “ Characterization of Immunoglobulin G antibodies in Baboons Infected with Schistosomiasis during Vaccination and Chemotherapy”
17. **Muriuki Kimiru Reg. No. I56/11302/2004 (M.Sc. Graduated).** Title: “Pheotypic characterization of HIV-1 isolates in patients from Nairobi, Kenya
18. **Robin C.A. Omedo Reg. No. I56/7332/2002 (M.Sc. Graduated).** Title: “Analysis of hepato-intestinal pathology of *Schistosoma mansoni* in baboons (*Papio anubis*) vaccinated with genes encoding antioxidant enzymes”.
19. **Kinyua Felix Reg. No. I56/7711/2002 (M.Sc. Graduated).** Title: “The Causes and Effects of Pica in Pregnant Mothers in Msambweni, Kwale District, Kenya.”
20. **Basiye Lusasi Frank Reg. No. I56/11309/2004 (M.Sc. Graduated).** Title: “Development Of Standard Protocols for Sample Storage for *Trypanosoma* and *Leishmania* Research”.
21. **Kabiru P. N. Reg. No. I56/11301/2004 (M.Sc. Graduated).** Title: “Antimicrobial Susceptibility pattern of Compylobacter Isolates from Nairobi.”
22. **Ouko Tom Turbine Reg. No. I56/11303/2004 (M.Sc. Graduated).** Title: “ Resistant *Staphylococcus aureus* among HIV infected patients in Kenya”.

23. **Inonda Rose Reg. No. I56/6238/2003** (M.Sc. Graduated). Title: “Determination of pesticide residues in locally consumed vegetables and their physiological effects”.
24. **Kibugu James Karuku Reg. No. I56/5757/2003** (MSc. Graduated). Title: “Effects of Mycotoxins on the pathogenesis and Curative Treatment of *Trypanosoma rhodesiense* in Mice.”
25. **Kihara Mary Wangari Reg. No. I56/6515/2003** (MSc. Graduated). Title: “ In Vitro Evaluation of Antimicrobial Activity of Aqueous Leave Extract of *Azadiracta indica* “
26. **Nyakoe Nancy Reg. No. I56/11081/2004** (MSc. Graduated). Title: “Complement Utilization in Children with Severe *Plasmodium falcipurum* Malaria”.
27. **Simon Ndung’u Gachigua Reg. No. I56/CE/12254/2004** (MSc. Graduated). Title: “Prevalence of human brucellosis determined by slide test, standard agglutination test and ELISA in Nyandarua District, Kenya.”
28. **Amy W. Wahome Reg. No. I56/10877/2004** (MSc. Graduated). Title: Toxicity studies of some Kenyan plants with hypoglycaemic activity used in traditional medicine”
29. **Patrick Kiarui Nding’uri Reg. No. I56/13073/2005** (MSc. Graduated). Title: “Passive immunity to Schistosomiasis in mice transfused with hyperimmune baboon serum”
30. **Sadiki Frank Materu Reg. No. I56/1136/04** (MSc. Graduated). Title: “ Isolation and characterization of Neisseria Meningitidis implicated in an outbreak of Meningitis in West Pokot District, Kenya and South Sudan-April 2006”
31. **Kishoyian G. Manyara Reg. No. I56/7277/2002 (M.Sc. Graduated)**. Title: “Prevalence of iodine excretion among Primary school children in Makina and Kilimani Schools, Nairobi”.
32. **Alice Atieno Juma Reg. No. I56/11310/2004** (MSc. Graduated). Title: “ Establishment of reference values for some analyzed Biochemical parameters in adult population in North-Rift Valley, Kenya.”
33. **Wamonje Francis Onono Reg. No. SC-306-0058/2006 [JKUAT]** (MSc. Graduated). Title: “Immunomodulatory effects of Brucella on cytokine production that promote spontaneous abortion in mice”
34. **Elizabeth W. Mwaura Reg. No. 156/10897/2007. (M.Sc.Graduated)**. Title: ”Isolation and Identification of Fungal Dermatological Agents among Patients attending Thika District Hospital Thika, Kenya.”

35. **Irungu John Reg. No. I56/5740/03 (MSc. Graduated)** Title: “ Prevalence and co-infection of Cassava mosaic geminiviruses and Cassava brown streak virus in popular cassava cultivars in western Kenya.”
36. **Pius Mutisya Kimani Reg. No. I56/CE/12511/2004 (M.Sc. Graduated).** Title: “Determination of aflatoxin levels in maize and flour at different storage conditions in Kitui,
37. **Julius K. Kibe Reg. No. I56/6513/2003 (M.Sc. Graduated).** Title: “Effect of Immunosuppression and Passage on Virulence of Lentogenic Vaccine Strain of Newcastle Disease Virus”
38. **Humprey Gaya Cyprian Reg. No. I56/10671/2007 (M.Sc. Graduated).** Title: “Evaluation of active ingredients in *Zanthoxylum gillettii* (De Wild waterman) extracts across different geographical regions in Kenya”
39. **Peninah Njoki Gatuthu Reg. No. I56/11314/2004 (M.Sc. Graduated December 2011).**
Title: “Biochemical Profiles in Children I With HIV at Gertrude’s Children’s Hospital Comprehensive Care Centre, Nairobi, Kenya”
40. **Njeru John Mwaniki Reg. No. I56/10660/2007 (M.Sc. Graduated).** Title: “Molecular Characterization of Antibiotic Resistance in *Shigella* Species Isolated from Diarrhoeic Stool Samples of Patients Attending Kwale District Hospital, Kenya”
41. **Konongoi Samson Limbaso Reg. I57/11026/2004 (M.Sc. Graduated in June 2012)**
Title: “ Influenza Virus Subtypes in Wild Birds within Selected Sites along Major Migratory Fly-ways in Kenya”.
42. **Elisha Muchunga Mugo Reg. No. I56/10099/2008 (M.Sc. Graduated in June 2012)**
Title:“Functional Analysis of a Midgut Proteolytic Gene in Tsetse Fly (*Glossina pallidipes*) by RNA Interference”
43. **Mburu Margaret Ciina Reg. I57/OL/0256/2004 (MPH. Graduated in June 2012).**
Title: “Evaluation of Genotype® MTBDRPLUS Assay as a Screening Tool for Multi-Drug Resistant Tuberculosis Surveillance Among Patients at High Risk in Nairobi”
44. **Njagi Samuel Maina Reg. No. I56/1132/2004 (M.Sc. Graduated in June 2012).**
Title: “The Prevalence of Diabetes Mellitus and Pancreatitis Complications in HIV Infected Individuals in Nyeri District”.
45. **Ngugi Cecilia Njoki Reg. No. I56/12255/2009(M.Sc. Graduating in Dec. 2012).**
Title: “Entomopathogenic Nematodes *Heteroharbitis indica* and *Steinernema kari* as Biological Control Agents of Legume Pod Borer *Maruca vitrata* *Syn. tessulatis* in cow pea”.
46. **Ashiemi Seruya Nyakowa Reg. I56/5755/2003 (Graduated July 2013).** Title: Use

of cELISA in Verification of Trypanocidal Drug use a Cause of Treatment Failure in Lamu, Kenya.

- 47. Sara Naulikha Kituyi Reg. I56/20979/2010 (Graduated December 2013)**
Title: Comparative Parasite Load Determination by Microscopy, Antigen detection and Real-Time-Quantitative PCR in Children with Mild and Severe Malaria, in Kisumu, Kenya.
- 48. Kimuni N.Susan Reg.I56/13078/2005 (Graduated December 2013)** Title: Biological Studies of Some Plants used Traditionally to Manage Diabetes Mellitus in Kenya.
- 49. Kipng'etich Ngeny Chris Reg. I56/CE/11948/2008 (Graduated December 2013)**
Title: Effects of HAART on Integrity of Liver and Kidney in HIV Patients at Coast Provincial General Hospital Kenya
- 50. Mwangemi Arthur Mwanjulu Reg. I56/12259/2009 (Graduated December 2014)**
Title: The use of *Mundulia sericia* to control *Culex quennefasciatus* in Kebera slums.
- 51. Gitonga Godfrey Mutuma Reg. I56/CE/14402/2009 (M.Sc. Graduated July 2015)** Title: Effects of Khat (*Catha edulis*) Extract on Liver and Kidney of Albino Mice when Administered Orally.
- 52. Susan Nyawira Nyagah Reg. I56/10892/2007 (Graduated July 2015).** Title: Evaluation of Serum Agglutination and Rose Bengal Tests Against Immunofluorescence Antibody Assay in Diagnosis of Brucellosis in Narok and Kiambu Counties, Kenya.
- 53. Tarwish B. Reg. I56/11583/2007 (Graduated December 2015).** Title: Larvicidal Activity of Phytochemicals from *Vernonia lasiopus*, *V. Auricurifera* and *V. Galamensis* Against the Malaria vector, *Anopheles gambiae*.
- 54. Seraphine Nekesa Nebere Reg. I56/22674/2012 (Graduated December 2015).** Title: Interferon-gamma, Interleukin-10 and Adiponectin as Disease Progression Markers in HIV-1 and Tuberculosis Co-infected Non-injection drug Users from Mombasa, Kenya.
- 55. Francis Gitau Mugweru Reg. I56/211577/2007 (Graduated July 2016).** Title: *In Vitro* Antibacterial activities and Safety of Aqueous Extraction of Selected Kenyan Medicinal Plants Against Diarrhea Causing Bacteria.
- 56. Gacheru Stephen Gitau Reg. I57/6472/2003 (Graduated July 2016).** Title: Assessment of Healthcare Providers Knowledge and Capacity to Detect Rift Valley Fever Infections in Maragua Sub-County of Murang'a County of Kenya.
- 57. Joseph Kiambi Mworira I56/CE/24613/2012 (Graduated July 2016).** Title: Antinociceptive Activities of Acetone Leaves Extract of *Carissa spinarum* and *Caesalpinia vokensi* in Mice.
- 58. Isaac Kinyua Njangiru Reg. I56/CE/22527/2011 (Graduated July 2017).** Title: PHARMACOLOGICAL AND Toxicological Study of five Medicinal Plants Traditionally Used in Management of Diabetes in Nakuru County Kenya.

59. Caroline Mercy Kinya Reg. P150/20439/2010 (Graduated December 2018). Title: Comparative Study of Hepatitis B and Hepatitis C Viruses Among HIV-Infected Intravenous Drug Users and Non-Users in Mombasa County.

60. Audrfey Chepkemmi Reg. I56/27773/2014 (Graduated in December 2019). Title: Antiinflammatory, Antinociceptive and Antipyretic Activities of Acetone Stem bark Extracts of *Pappea capensis* (Litchi) in Animal Models.

(ii) Ph.D

- 1. Ngaira Jane Mudeisi Reg. No. I84/7611/98 (Ph.D- Graduated 2006).** Title: “Isolatin and characterisation of variable antigen type (PVATS) of *Tryoanosoma evansi* stocks in Kenya.”
- 2. Leonard K. Munga Reg.I84/0040/2003 (Ph.D -Graduated 2010).**Title: “ Field Studies On Influence of Environmental Factors and Susceptibility to trypanosomosis of the Boran And Boran-N’dama Crossbreed Cattle in Kenya”.
- 3. Stanley King’e Waithaka Reg. I84/11233/2006 (Graduated December 2012).** Title: “ National reference ranges for routinely analyzed biochemical parameters, creatinine clearance,oral glucose tolerance test, lipids, tumour markers and hormones for adult Kenyans”.
- 4. Daniel Otieno Okun Reg.I84/10258/2007 (Graduated December 2012).** Title: “ Distribution and Molecular Characterization of Toxigenic and Atoxigenic Isolates of *Aspergillus* section Flavi in Kenya.”
- 5. Agyirifo Daniel Sakyl Reg. I84F/24679/2011 (Graduated December 2015)** Title: Metagenomic Analysis of Ghanian Cocoa Beans Fermentation
- 6. Johg King’ori Mwonjoria Reg.I84/25778/2011 (Graduated December 2016)** Title: Anticociceptive. Anti-Inflammatory and Antipyretic Effects of *Solanum incunum*(Linnaeus), *Craterostigma pumilum*(Hochst) and *Euclea divinorum*(Hiern) in Animal Models.
- 7. Gathua Susan Wamani Reg. I84/10950/2007 (Graduated July 2018)** Title: “ Occurrence, Antibiotics and Disinfectants Resistance of Extended Spectrum B-Lactamses Producing *E. Coli* and *K. pneumonia* and the Genes Encoding for the Resistance in Kenya.”
- 8. Jackson Ireri Mrama Reg. I84/25779/2011 (To graduate July 2021)** Title:” Changes in Serum levels of Haematological and Biochemical Parameters, Erythropoietin and Pro-inflammatory Cytokines in HIV-infected Patients at Kenyatta National Hospital-Kenya.”

B. Supervision in Progress

(i) Masters (9)

1.

(ii) Ph.D (6)

9. Conferences Seminars/Workshops:

1. District Focus for Rural Development at Kenya Institute of Administration from 5th to 19th August 1985.
2. Participative Training Techniques course at Kenya Agricultural Research Institute headquarters 2nd- 6th February 1997.
3. Trypanosomiasis Seminar in Antwerp, Belgium from 9th to 14th December 1991. Presented a poster entitled "Pathogenesis of *T. (brucei) evansi* in Small East African Goats".
4. Infectious diseases of wildlife workshop at Skukuza in Kruger National Park from 23rd to 24th October 1992.
5. 3rd International wildlife Ranching Symposium in Pretoria from 27th to 30th November 1992.
6. 16th WAAVP conference at Sun City, Republic of South Africa from 10-15th August 1997. Presented a paper entitled, "Characterisation of *Anaplasma* isolates from eland (*Taurotragus oryx*): Pathogenesis in cattle and sheep and DNA profile analysis".
7. 5th International Congress of the African Association of Physiological Sciences (AAPS) from 27th July-1st August 2008. Presented a poster entitled "Hypoglycemic effects of some Kenyan plants that traditionally manage Diabetes mellitus".
8. 1st East African Regional Scientific Conference, School of Pure and Applied Sciences 10th -14th August 2010
9. "Interaction of Cassava mosaic disease and Cassava brown streak disease in *Nicotiana benthamiana*" 2010. Irungu J., Miano, D., **Ngeranwa J.J.**, E. Mbogo, K. Monjero, and S.T.Gichuki at the 12th KARI Biennial Scientific Conference held on 8th -12th November 2010, at KARI Headquarters, Nairobi Kenya.

10. “Incidence of Cassava Brown Streak Virus and Cassava Mosaic Geminiviruses in local cassava landraces” 2012. Irungu, J., **Ngeranwa, J. J** , Miano, W. D, Mbogo, E. Scientific paper presented at the Science and Technology innovation week on 7th – 11th may 2012 at KICC, Nairobi, Kenya.

10. Publications and Presentations:

A1: All Publications

1. **NGERANWA, J.J.N., SHOMPOLE, S.P., VENTER, E.H., WAMBUGU, A. , CRAFFORD, J.E. AND PENZHORN, B.L. (2008).** Detection of Anaplasma Antibodies in wildlife and domestic species in wildlife-livestock interface areas of Kenya by major surface protein 5 competitive inhibition enzyme-linked Immunosorbent assay. *Onderstepoort Journal of Veterinary Research*, **75**: 199-205.
2. **NGERANWA, J.J.N., VENTER, E.H., PENZHORN, B.L., SOI, R.K., MWANZIA, J. AND NYONGESA. (1997).** Characterisation of *Anaplasma* isolates from eland (*Taurotragus oryx*): Pathogenicity in cattle and sheep and DNA profile analysis. *Veterinary Parasitology*, **74**: 109-122.
3. **NGERANWA, J.J.N. AND KILALO, D.C. (1994).** The ability of *Stomoxys calcitrans* and mechanical means to transmit *Trypanosoma (brucei) evansi* from goats to camels in Kenya. *Veterinary Research Communication*:
4. **NGERANWA, J.J.N.; GATHUMBI, P.K.; MUTIGA, E.R. AND AGUMBA, G.J.O. (1993).** Pathogenesis of *Trypanosoma (brucei) evansi* in small East African Goats. Research in Veterinary Science. **54**: 283 - 289.
5. **NGERANWA, J.J.N.; MUTIGA, E.R.; AGUMBA, G.J.O.; GATHUMBI, P.K. AND MUNYUA, W.K. (1991).** Effect of experimental *Trypanosoma (trypanozoon) (brucei) evansi* infection on fertility of male goats. *Veterinary Research Communication*, **15**: 301 – 308.
6. **INONDA, R., NGERANWA, J.J.N; MUTAI C.; NJAGIE. AND NTAIYA R. (2016)** Analysis of the Effects of *Pesticide Residues* obtained in Vegetables in the Kenyan Market on Biological Systems. *World Journal of Pharmacy and Pharmaceutics*, **5**(9): 38 – 55.
7. **MWONJORIA. J.K., NGERANWA J. J. N ALIYU U; KEVIN K. J; TITUS M. K; PIERO M. N; DAVID M; ALPHONSE W. W; CHARLES G. G; (2016)** Anti-inflammatory activity of *Craterostigma pumilum* (hochst) is associated with hyperanalgesia. *International Journal of Pharmacology and Toxicology*, **4**(2): 169-173.

8. OKOTH, O. N; **NGERANWA J. J. N**; BINEPAL, Y.S; KIHAKI, A.K.; BRAMWEL, W.W. ; ATEYA, L.O; KAREITHI, M.H.; WEKESA, F.C. (2016). Viral Disease resistance of indigenous chickens from selected areas in Kenya using SNP markers. *Academia Journal of Agricultural Research* 4(5): 252-257.
9. NJOGU, S.M., **NGERANWA J. J. N**; W. M. ARIKA; DW NYAMAI; M.P NGUGI; A.K. MACHOCHO AND E.M.N. NJAGI (2016) Hypoglycemic Effect of Aqueous and Ethyl Acetate Leaf Extract of *Maytenus putterkloides* in Alloxan induced Diabetic Mice. *Journal of Diabetes and Metabolism*, 7(6):1-7.
10. MWONJORIA , **J. K.**, **NGERANWA J. J. N**; C.G. GITHINJI; T. KAHIGA; H.N. AND WAWERU F.N. (2014) Suppression of nociception by *Solanum incanum* (Lin.) Dichlomethane root extract is associated anti-inflammatory activity. *Journal of Phytopharmacology*, 3 (3): 156-162.
11. SARAH N. KITUYI, NANCY NYAKOE, **JOSEPH N. NGERANWA**, STEVEN RUNO AND JOHN N. WAITUMBI (2014).How well do malaria tests correlate with disease severity? Comparison of parasite density in children with mild and severe malaria. *Malaria World Journal*, 5 (7):1-5.
12. ABDIRAHIMAN YA.; JUMA K. K.; MUKUNDI MJ.; GITAHI SM.; AGYIRIFO DS.; NGUGI MP.; GATHUMBI PK.; **NGERANWA J.J.N.** AND NJAGI ENM. (2015). In-Vivo Antidiabetic Activity and Safety of the Aqueous Stem Bark Extract of *Kleinia Squarrosa*. *Journal of Diabetes and Metabolism*, 9(6): 1-11.
13. JUMA K. K.; FULAKEZA R.M.J.; NGUGI M.P.; **NGERANWA J.J.N.** AND MBURU N.D. (2015) Evidence Based Phytopharmacological Potential of Herbal Extracts in Post-Ingestion Management of Mycotoxins in Animal Models. *Journal of Clinical Toxicology* 5(4): 1-8.
14. GODFREY MUTUMA GITONGA.; **JOSEPH NGERANWA J.N.**; ALEX KING'ORI MACHOCHO.; ALLAN MGUTU.; ANN WANJIRU GITONGA.; TITUS MUHIHU. (2015). A Preliminary study on the effects of Khat (*Cathaedulis*) on liver of Mice. *The Journal of Pyhtopharmacology* , 4(3): 176-182.
15. KELVIN N. JUMA.; **NGERANWA J. J. N.**; MBURU N. DAVID.; (2015). A review of the Biochemical, Hematological and Histological Modulations in Acetaminophen Induced Hepatotoxicity and the Potential of *Urtica Dioica* in the Regeneration of the Liver. *Journal of Drug Metabolism abd Toxicology*, 6(3): 1-7.
16. JUMA K. K.; MAINA S. G. ; MURIITHI J. N.; MWANGI B. M.; MWORIA K. J. MWONJORIA M. J. **NGERANWA J. J. N.**; MBURU N. DAVID. (2015). Protective Effects of *Urtica dioica* and Cimetidine on Liver Function Following Acetaminophen Induced Hepatotoxicity in Mice. *Journal of Developing Drugs*, 4(1): 1-7.
17. NGUGI M PIERO, **NGERANWA NJ JOSEPH** , ORINDA G.O., NJAGI J MURUGI, MAINA D.,AGYIRIFO D.,GATHUMBI K. KING'E W.S. AND NJAGI EN (2015). Antidiabetic and Safety of *Lantana rhodesiensis* in Alloxan Induced Diabetic Rats. *Journal of Developing Drugs*, 4(1):1-10.

18. JOAN MURUGI NJAGI, MATHEW PIERO NGUGI, CROMWELL MWITI KIBITI, **JOSEPH NGERANWA**, WILSON NJUE, PETER GATHUMBI, ELIUD NJAGI (2015). Hypoglycemic effect of *Helichrysum odoratissimum* in alloxan induced diabetic mice. *The Journal of Phytopharmacology*, **4(1)**: 30-33.
19. MWONJORIA J. K., **NGERANWA J.J.**, KARIUKI H.N., SAGINI M.N. AND WAMBUGU S.N.(2014). Ethno-medicinal, phytochemical and pharmacological aspects of *Solanum incanum* (lin.) *International Journal of Pharmacology and Toxicology*, **2(2)**: 17-20.
20. MWONJORIA J. K., **NGERANWA J.J.**, GITHINJI C.G., KAHIGA T., KARIUKI H.N., WAWERU F.N.(2014). Suppression of nociception by *Solanum incanum* (Lin.) Diclomethane root extract is associated anti-inflammatory activity.*The Journal of Phytopharmacology*, **3(3)**: 1-7 .
21. IRUNGU, J., **NGERANWA,J.J.** AND MIANO, W.D. (2013). Dual occurrence of Cassava Mosaic Geminiviruses and Casava Brown Streak Virus in Western Kenya. *East African Agricultural and Forestry Journal*, **76 (3)**: 131-137.
22. NGUGI M PIERO, NJAGI J MURUGI, ODUOR R OKOTH, MGUTU A JALEMBA, **NGERANWA NJ JOSEPH** AND NJAGI EN MWANIKI (2012). Prevention of Type I Diabetes Mellitus: The Role of Immune Interventions. *Journal of Clinical and Cellular Immunology 2012 S2*
<http://dx.doi.org/10.4172/2155-9899.S2-005>
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A2:Publications Since becoming Associate Professor

1. INONDA, R., **NGERANWA, J.J.N**; MUTAI C.; NJAGIE. AND NTAIYA R. (2016) Analysis of the Effects of *Pesticide Residues* obtained in Vegetables in the Kenyan Market on Biological Systems. *World Journal of Pharmacy and Pharmaceutics*, **5(9)**: 38 – 55.
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B: Papers Presented at Conferences

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11. Research Grants

1. *African Development Bank/MOEST Project of Training of Existing Teaching*

Staff in Engineering and Applied Sciences

(Position = Funded Ksh. 104,000,000.00) Year 2014-2019

TO NOTE :

This grant was written in 2014 by **myself, as the Team Leader**, with three other members composed of Dr. Nadir Hashim from Physics Department, Dr. Margaret M. Ng'ang'a from Chemistry Department and Dr. Maina Mwangi (now Professor Mwangi) then of Grants office, Kenyatta University. This was after a news paper advertisement calling for proposals that I requested the Vice Chancellor to appoint the members to work with me to bid for the money to train staff in the school where I was the Dean. After a rigorous work that called for spending the night in my office till morning, we submitted the proposal with a budget of over **Two hundred Million Kenya Shillings**, which after it was short listed I went with my team of five to defend in the Ministry of Higher Education Science and Technology. When at the Ministry I was told to review the budget downwards by omitting aspects of training where I had intended to take students overseas for short-term experience in selected laboratories. Instead I was requested to invite collaborating Professors to the country to offer mentorship to students for between 1 and 3 weeks. This brought the grant budget down to **Ksh. 116, 400,000.00**.

Since receiving this grant I have chaired the Committee that has been implementing the training and overseeing prudent expenditure of this money as the responsible Team Leader including the latest renewal of the mandate last year, **5th October 2020 (letter attached)**. The training is still on-going having been delayed by some unavoidable circumstances but we have made very good progress having graduated many Ph.Ds and masters while many more are in the pipeline.

2. *Evaluation of antinociceptive, antipyretic and anti-inflammatory effects of Euclea divinorum, Solanum incanum and Craterostigma plantagenium in animal models*
(DAAD/NCST)

(Position= Funded Ksh. 1,020,000.00)

TO NOTE :

This research concept was developed by the student of Ph.D under my guidance and we applied for money from DAAD/NCST which we got, implemented the research and the student graduated and has since joined the teaching staff as a lecturer.

3. *Changes in Serum Levels of Erythropoietin, c-Reactive Protein, Tumor Necrotic Factor- α and Interleukin-6 in HIV-Infected Patients*
(Position= Funded Ksh. 1,009,000.00)

TO NOTE :

This research concept was developed by a Ph.D student under my guidance and we applied for funds from NACOST which we got implemented the research and the student is graduating in the next lot later this year.

4. *Isolation, Characterization and Effect of Potential Probiotics on Health and Growth*
of Nile Tilapia (Oreochromis niloticus)
(Position= Funded Ksh. 1, 800,000.00)

TO NOTE :

This research concept was developed by a Ph.D student under my guidance and we applied for funds from National Research Fund (NRF) which we got and are implementing the research and the student is making good progress towards completion of the training.

5. *Effect of Urtica dioica, Cucurbita pepo and Spinacea oleracea Extracts in Amelioration of Alcohol Induced Toxicity in Rat Models*
(Position= Funded Ksh. 1, 880,969.00)

TO NOTE :

This research concept was developed by a Ph.D student under my guidance and we applied

for funds from NRF which we got are implementing the research and the student is soon submitting the thesis for examination.

12. Journal review Activities

- 1. Peer reviewer for African Journal Of Pharmacology and Therapeutics**

13. Administrative Responsibilities

- 1. Acting Chairman, dept of Biochemistry and Biotechnology**
From 22nd November to 19th December 2004.
- 2. Acting Chairman, Dept of Biochemistry and Biotechnology**
From 7th February 2007 to February 2008.
- 3. Chairman, department of Biochemistry and Biotechnology**
From February 2008 to January 2013
- 4. Acting Dean, School of Pure and Applied Sciences**
From December 2012 – October 2018.

14. Community Services.

- 1. Board Chairman, Christian Community Services- Mount Kenya East (CCS-MKE)**
from 2009 to date
- 2. Biotechnology Ethical Committee**
- 3. Member, BOG, Gikiiro Secondary School, Embu County (September 2012-2016)**
- 4. Member, BOM, Nyngwa Boyus Secondary School, Embu County (August 2017 to date)**

15. Vice Chancellor's Assignments

- 1. Member of Promotions and Appraisal Committee- Non-academic grades**
- 2. Curriculum Development Committee- Teacher's Development Centre**
- 3. Restructuring KU into Colleges**

4. **Ad hoc Committee on Programme harmonization**
5. **University Fumigation Committee**
6. **Expression of interest in AfDB funds to train Existing Teaching Staff in Engineering and Applied Sciences**
7. **Standing committee to investigate fees fraud and emerging cases of tempering with marks**
8. **Committee to implement the African Development Bank (AFDB) Doctoral and Masters Training Program in Applied Chemistry and Physics (October 2020).**

16. Vice Chancellor's Recognition

1. Acknowledgement October 2014
2. December 2014 Extra mile award

17. National Assignments

1. Chairman, The Special Board of Adult and Continuing Education, from June 2014 to date

18. Professional Association

1. Active member of Kenya Chemical Society

REFERENCES

1. Professor Hassanali A.
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