

## CURRICULUM VITAE (02/04/2022)

Dr. JOSEPH. M. NGUTA, *B.V.M., MSc., PhD, Postdoc (UoN, NMIMR, OSU), MKNAS.*

### Current Address:

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### Personal information:

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### Summary:

A Veterinary surgeon by training and Pharmacologist and Toxicologist by specialization, i am a Senior Lecturer at the Department of Public Health, Pharmacology and Toxicology (PHPT), University of Nairobi with twelve (12) years' experience in undergraduate and postgraduate teaching and supervision. I hold MSc and PhD qualifications in natural product Pharmacology and toxicology from the University of Nairobi. In addition, i hold Postdoctoral qualifications from Noguchi Memorial Institute for Medical Research (NMIMR), College of Health Sciences, University of Ghana, where I pursued drug discovery against zoonotic tuberculosis from natural products of plant biodiversity. Specifically, I utilized whole cell assay and subcellular targets for lead compound identification and structural characterization of lead antimycobacterial compounds with rapid kill kinetics against latent, intracellular and active tuberculosis. My studies culminated in characterization of a new source steroidal sapogenin of spirostane type, solagenin (25S)-6 $\alpha$ -hydroxy-5 $\alpha$ -spirostan-3-one), with selective activity (SI index: 65) against the pathogenic *Mycobacterium bovis* (ATCC<sup>®</sup> 35720<sup>™</sup>) strain. Prior to the postdoctoral award by Bill and Melinda Gates Foundation (BMGF) through Noguchi Memorial Institute for Medical Research (NMIMR), I was a doctoral and later a postdoctoral fellow at the Department of Public Health, Pharmacology and Toxicology (PHPT), University of Nairobi, under support from Carnegie supported Regional

Initiative in Science and Education, African Natural Products Network (RISE-AFNNET) University of Nairobi Node, investigating medicinal plants for antiprotozoal activity. I have supervised three (3) Doctoral (PhD) students and fifteen (15) Master of Science (MSc) students to completion. I have published **seventeen (17)** peer reviewed articles, and accumulated a total of **Sixty nine (69) publication points**, since my last promotion. I have published cumulatively **fifty one (51)** articles in leading peer reviewed journals. I have attended sixty eight (68) workshops/symposia and presented **forty eight (48)** papers/abstracts in both local and international scientific conferences. I have a cumulative citation of **1039**, h-index of **15** and i10-index of **21**. I have been awarded a total of six (6) travel grants and three (3) research/development grants since my last promotion by both local and international institutions. I have **attracted educational resources** from American Society for Microbiology and British Council. I have continued **to offer community service**, as a Veterinary surgeon and also as a member of society. I was ranked position ninety seven (97) among the top one hundred (100) Kenyan Scientist by Webometrics in March 2015 (<http://www.webometrics.info/en/node/106>). In 2020/2021 Academic year, **I was ranked among the top three Best Academicians in the Faculty of Veterinary Medicine**, and received the Vice Chancellors prize/recognition due to exemplary performance. I am the Country coordinator, One Health Ethics and Regulatory Procedures Project (OHEARP), and the Country Liason Officer, Global One Health Initiative (GOHi). I was the American Society for Microbiology (ASM) Young Ambassador for Science to Kenya, 2017-2020 (<http://www.asm.org/index.php/this-week-in-international>). Currently, I am the American Society for Microbiology (ASM) **Country Ambassador for Science** to Kenya. Since 2017, I was appointed as an Early Career Reviewer (ECR), by the Centre for Scientific Review (CSR), National Institute of Health (NIH), Bethesda, USA. I am a **Member of Kenya National Academy of Sciences (MKNAS/217)**, a mark of academic integrity and distinction. I have special research interests in Natural Product Pharmacology and Toxicology, specifically, antimicrobial drug discovery from microbial and floral biodiversity, and One Health and Emergency research ethics.

## **Undergraduate and Postgraduate Teaching**

### **(A). Undergraduate and Postgraduate Courses Coordinated:**

#### **A.1. Undergraduate Courses Coordinated/Course Leader:**

- 1.Co-ordinator: HBC 406: Biochemical Pharmacology
- 2.Co-ordinator: JWL 352: Basic Pharmacology, Toxicology & Ecotoxicology

#### **A.2. Postgraduate Courses Coordinated/Course Leader:**

1. Co-ordinator: JVN 604: Natural Products Safety and Efficacy
2. Co-ordinator: JPT 602: Food and Environmental Toxicology
3. Co-ordinator: JPT 625: Advanced Toxicology
- 4.Co-ordinator JPT 620: Pharmacognosy

### **(B).Courses Taught**

#### **(i). Undergraduate Courses Taught**

1. HBC 406: Biochemical Pharmacology

2. JWL 352: Basic Pharmacology, Toxicology & Ecotoxicology
3. JPT 343: Toxicology
4. JPT 341: Pharmacology I
5. JPT 342: Pharmacology II
6. JCL 534: Forensic Science, Jurisprudence and Policy (**Course taught: Forensic toxicology**)
7. JFA 206: Aquatic Toxicology
8. HBC 407: Biochemical Toxicology
9. AFN 302: Nutritional Pharmacology

### **(ii). Postgraduate Courses Taught**

1. JPT 602: Food and Environmental Toxicology
2. JPT 625: Advanced Toxicology
3. JVN 604: Natural Products Safety and Efficacy
4. JPH 606: Aquatic Pharmacology and Toxicology
5. JPT 620: Pharmacognosy

### **Administrative responsibilities**

- |                           |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Acting Chairman, PHPT: | <p style="text-align: center;"><b><u>Dates</u></b></p> <p>(a). October, 22<sup>nd</sup> -November 2<sup>nd</sup> , 2018.<br/>         (b). February, 11<sup>th</sup> -February 15<sup>th</sup> , 2019<br/>         (c). March, 4<sup>th</sup> -6<sup>th</sup> , 2019<br/>         (d). April, 23<sup>rd</sup> - 26<sup>th</sup> , 2019.<br/>         (e). May, 27<sup>th</sup> - 7<sup>th</sup> June, 2019.</p> |
| 2. Leader/Head:           | Natural products research group                                                                                                                                                                                                                                                                                                                                                                                 |
| 3. Co-ordinator/Incharge: | Departmental (PHPT) examinations (October, 2016-October, 2020)                                                                                                                                                                                                                                                                                                                                                  |
| 4. Member:                | Departmental Management Committee<br>Departmental Quality Assurance Committee                                                                                                                                                                                                                                                                                                                                   |

### **Personal profile:**

**Senior Lecturer**, Pharmacology and Toxicology.....Department of Public Health, Pharmacology and Toxicology, Faculty of Veterinary Medicine, University of Nairobi.

### **Duties and responsibilities:**

Mentorship and supervision of doctoral students in the area of drug discovery against infectious diseases from natural products. Lecturing and supervision of both postgraduate and undergraduate students undertaking the following courses: MSc in Pharmacology and Toxicology; MSc in Natural Products and Bioprospecting; Masters in Veterinary Public Health (MVPH); MSc in Food Nutrition and Dietetics; Master of Science in Fisheries; Bachelor of Veterinary Medicine; Bachelor of Science in Wildlife Management and Conservation; Bachelor of Science in Food Nutrition and Dietetics and Bachelor of Science in Medical Biochemistry students topics in Basic and Clinical

Pharmacology and Toxicology. I am also involved in organization of practical classes and conduct of tutorials in the area of Pharmacology and Toxicology and any other duties assigned to me by the Departmental head from time to time. I have served as the **Acting Chairman**, Department of Public Health, Pharmacology and Toxicology on different occasions during **2018 and 2019**.

**Career Aspiration:**

To provide leadership in academia, drug discovery against infectious diseases and in the practice of Veterinary Medicine, while upholding the ethics and dignity of the veterinary profession.

**ORCID ID:**

ORCID identifier is: 0000-0002-4591-9999, and my full ORCID iD and the link to my public record is: <http://orcid.org/0000-0002-4591-9999>.

**Citation indices:**

1. h-index: **15**
2. i10- index: **21**
3. Cumulative citations: **1039**
4. PubMed appearances: **16 (Complete List of Published Work in MyBibliography: <https://www.ncbi.nlm.nih.gov/myncbi/joseph.nguta.1/bibliography/public/>)**
5. Webometrics ranking (**March, 2015**): **Position 97, among top 100 Kenyan scientists (<http://www.webometrics.info/en/node/106>)**
6. **Ranked position 3 (exemplary performance)** in the Faculty of Veterinary Medicine in 2020/2021 Academic year, thus receiving Vice Chancellors recognition and prize

**Educational background:**

1. Postdoctoral Fellow (Research Ethics/Bioethics): Global one Health Initiative (GOHi), The Ohio State University: **01<sup>st</sup> March 2021-todate**.

*Post Doc focus:* One Health Ethics and Regulatory Procedures (OHEARP).

Topic: Ethical challenges, opportunities and feasibility of making potential changes for improved Ethical review of One Health and Emergency research in Africa.

2. Postdoctoral Fellow (Pharmacology and Toxicology): Noguchi Memorial Institute for Medical Research, College of Health Sciences, University of Ghana, Legon, Accra: **06<sup>th</sup> April 2014 to 30<sup>th</sup> September, 2016**.

*Post Doc focus:* Drug discovery against Mycobacterial infections (Zoonotic tuberculosis) from Ghanaian medicinal plants.

Topic: Bioassay guided fractionation, Isolation and Structural characterization of antimycobacterial compounds from natural products of plant biodiversity.

3. Postdoctoral Fellow (Pharmacology and Toxicology): University of Nairobi: **January 2012 to February, 2014**.

*Post Doc focus:* Formulation of safe, efficacious Phytomedicines against Protozoal diseases.

**4. PhD (Pharmacology and Toxicology):** University of Nairobi, **January 2009 to 9<sup>th</sup> September 2011.**

*Thesis focus:* Ethnopharmacology/Pharmacology and Toxicology of Phytomedicines

**5. MSc (Pharmacology and Toxicology):** University of Nairobi, **October/November 2004 to 7<sup>th</sup> September 2007.**

*Thesis focus:* Nutritional Pharmacology/Toxicology/Mineral Metabolism.

**6. Bachelor of Veterinary Medicine (BVM):** University of Nairobi, **October 1995 to 27<sup>th</sup> November 2000.**

### **Employment history:**

1. Senior Lecturer, Department of Public Health, Pharmacology and Toxicology (PHPT), University of Nairobi: **15<sup>th</sup> June, 2018..... To date**

2. Lecturer, Department of Public Health, Pharmacology and Toxicology (PHPT), University of Nairobi: **22<sup>nd</sup> June, 2012..... 14<sup>th</sup> June 2018.**

3. Tutorial Fellow, Department of Public Health, Pharmacology and Toxicology (PHPT), University of Nairobi: **29<sup>th</sup> Oct. 2008 to 21/06/2012**

4. Lecturer, Nairobi Technical Training Institute: **3<sup>rd</sup> September, 2007 to 28th oct.2008.**

### **Research interests:**

- 1.Natural product pharmacology and toxicology
- 2.Isolation, structural identification and characterization of anti-mycobacterial compounds from natural products
- 3.Bio-assay guided fractionation, isolation and identification of antimicrobial compounds
- 4.*In vitro* and *in vivo* toxicology assays
- 5.*In vitro* and *in vivo* pharmacology assays
6. Hit to Lead compound optimization
- 7.NMR-MS spectral analysis of isolated compounds
8. One Health and Emergency Research ethics

### **Academic publications:**

**1. J.M. Nguta.** Isolation and structural characterization of antimycobacterial compounds from Ghanaian medicinal plants (**Postdoctoral studies, Noguchi Memorial Institute for Medical Research, University of Ghana, September 2016**).

2. **J.M. Nguta.** Ethnopharmacology and Toxicology of Antimalarial Plants used traditionally in Msambweni, Kenya (**PhD Thesis, University of Nairobi, 2011**).

3. **J.M. Nguta.** Evaluation of trace element status in pasture grasses in various regions in Kenya (**MSc Thesis, University of Nairobi, 2007**).

### **Book Chapters Published**

1. **Joseph M. Nguta,** Kuastros M. Belaynehe, Andréia G. Arruda, Getnet Yimer, Dónal O'Mathúna. One Health research ethics in emergency, disaster and zoonotic disease situations: An animal disease outbreak investigation case study in Ethiopia. **In: Ethics, Integrity and Policymaking: The Value of the Case Study.** Eds Dónal O'Mathúna and Ron Iphofen. Springer Nature, 2021. (Undergoing peer review).

### **Special Seminars Delivered**

1. "Introduction to Systematic Reviews" delivered by Drs. Dónal O'Mathúna, **Joseph M Nguta** and Kuastros B Mekonnen to all Global One Health Initiative (GOHi) Fellows on **December 16<sup>th</sup>, 2021**.

2. "Bioethics transcending borders: Challenges and opportunities for improved conduct, review and regulation of One Health research in Africa", Delivered by: **Joseph M. Nguta**, at The Ohio State University Global One Health initiative (GOHi) webinar series on: **Thursday, January 20<sup>th</sup>, 2022, between 8:30-10:00AM EST**, under support from the NIH Fogarty International Center, under theme, "One Health Ethics, Community engagement during One Health Research Amidst Conflict, Drought, and Animal Disease"

### **Articles published in peer reviewed scientific journals:**

1. Hashim Ali , **Joseph Nguta**, Fredrick Musila, Isaac Ole-Mapenay, Dorine Matara, and James Mailu., **2022**. Evaluation of Antimicrobial Activity, Cytotoxicity, and Phytochemical Composition of *Ocimum americanum* L. (Lamiaceae). **Evidence-Based Complementary and Alternative Medicine, Volume 2022, Article ID 6484578, 11 pages, <https://doi.org/10.1155/2022/6484578>.**

2. Githua KK, Maitho TE, **Nguta JM** and Okumu MO., **2022**. Studies on the ethnopharmacology, antimicrobial activity, and toxicity of *Catha edulis* (Vahl.) Endl., in *Sprague Dawley* rats [version 1; peer review: awaiting peer review]. **F1000 Research 2022, 11:286 (<https://doi.org/10.12688/f1000research.109243.1>).**

3. James K. Mailu., **Joseph M. Nguta.**, James M. Mbaria., Mitchel O. Okumu., **2021**. Qualitative and quantitative phytochemical composition, antimicrobial activity, and brine shrimp cytotoxicity of different solvent extracts of *Acanthus polystachyus*, *Keetia gueinzii*, and *Rhynchosia elegans*. **Future Journal of Pharmaceutical Sciences, 2021, 7:195, pp.1-11, <https://doi.org/10.1186/s43094-021-00342-z>.**

4. Kathare, J.M., Mbaria, J.M., **Nguta, J.M.**, Moriasi, G.A., Mainga, A.O., **2021**. Antimicrobial Efficacy, Cytotoxicity, Acute Oral Toxicity, and Phytochemical Investigation of the Aqueous and

Methanolic Stem Bark Extracts of *Bridellia micrantha* (Hochst.) Baill. **Pharmacognosy Journal** **2021**; **13(5)**, pp. 1248-1256, Sep-Oct, 2021.

5. Matara, D.N., **Nguta, J.M.**, Musila, F.M., and Mapenay I. **2021**. Phytochemical analysis and investigation of the antimicrobial and cytotoxic activities of *Croton dichogamus* Pax crude root extracts, *Evidence-Based Complementary and Alternative Medicine*, vol. **2021**, Article ID **2699269**, 9 pages, 2021. <https://doi.org/10.1155/2021/2699269>

6. Muchonjo JK, Mbaria JM, **Nguta JM**, Moriasi, GA., **2021**. Analgesic efficacy and phytochemical composition of the aqueous and methanolic stem bark extracts of *Mystroxyton aethiopicum* (Thunb.) Loes. (Celastraceae). **International Journal of Herbal Medicine** **2021**; **9(2)**: pp. 48-56

7. Kathare JM, Mbaria JM, **Nguta JM**, and Moriasi GA., **2021**. Antimicrobial, cytotoxicity, acute oral toxicity, and qualitative phytochemical screening of the aqueous and methanolic stem-bark extracts of *Croton megalocarpus* Hutch. (Euphorbiaceae). **The Journal of Phytopharmacology**, **2021**; **10(2)**: pp. 117-125.

8. Kathare JM, Mbaria JM, **Nguta JM**, and Moriasi GA., **2021**. Antimicrobial, cytotoxicity, acute oral toxicity, and qualitative phytochemical screening of the aqueous and methanolic extracts of *Physalis peruviana* L (Solanaceae). **Appli Microbiol Open Access**, **2021**; **7(3)**: pp. 1-10.

9. VM Omambia, **JM Nguta**, ES Mitema, FM Musila, DM Nyak, HM Ali, MA Gervason., **2021**. Ethnopharmacology, pharmacological activities, and chemistry of the Hypericum genus. **The Journal of Phytopharmacology**, **2021**; **10(2)**: pp. 105-113. DOI: 10.31254/phyto.2021.10206

10. DN Matara, **JM Nguta**, FM Musila, IO Mapenay, HM Ali, VM Omambia., **2021**. Botanical description, ethnomedicinal uses, phytochemistry and pharmacological effects of *Croton dichogamus* Pax (Euphorbiaceae). **The Journal of Phytopharmacology**, **2021**; **10(1)**: pp. 42-47. DOI: 10.31254/phyto.2021.101xx.

11. HM Ali, **JM Nguta**, IO Mapenay, FM Musila, OM Vincent, DM Nyak., **2021**. Ethnopharmacological uses, biological activities, chemistry and toxicological aspects of *Ocimum americanum* var. *americanum* (Lamiaceae). **The Journal of Phytopharmacology**, **2021**; Vol. **10(1)**, pp. 56-60.

12. **Nguta, J.M.**, **2021**. Nitrate-nitrite toxicosis associated with duckweed (*Portulaca oleracea* L.) (Portulacaceae) consumption in a herd of sheep in Kenya. **Biomed Biotechnol Res J**, **2021**, **5(1)**, pp. 16-20.

13. **Nguta, J.M.**, **2021**. Therapeutic management of hypovitaminosis A and Zinc deficiency in a lactating cow from a small dairy herd in Muranga County, Kenya. **Biomed Biotechnol Res J**, **2021**, **5(1)**, pp. 94-97.

14. JK Mailu, **JM Nguta**, JM Mbaria, MO Okumu., **2020**. Medicinal plants used in managing diseases of the respiratory system among the Luo community: An appraisal of Kisumu East Sub-county, Kenya. **Chinese Medicine**, Vol. **15 (95)**, pp. 1-27. <https://doi.org/10.1186/s13020-020-00374-2>. PMID: PMC7469313.

15. DW Gakuya, MO Okumu, SG Kiama, JM Mbaria, PK Gathumbi, PM Mathiu, **JM Nguta., 2020.** Traditional Medicine in Kenya: Past and current status, challenges and the way forward. **Scientific African (2020), e00360. pp. 1-7. Doi: <https://doi.org/10.1016/j.sciaf.2020.e00360>.**
16. **Nguta, J.M., 2019.** Nitrate Poisoning due to Ingestion of Cabbages (*Brassica oleraceae* var. capitata L.) (Brassicaceae) in Kitui County, Kenya. **The Scientific World Journal, Volume 2019, Article ID 8716518, pp. 1-5. <https://doi.org/10.1155/2019/8716518>.**
17. **Nguta, J.M., 2019.** *In vivo* Antimalarial Activity, Toxicity and Phytochemical Composition of Total Extracts from *Securidaca longepedunculata* Fresen. (Polygalaceae). **Biomed Biotechnol Res J, 2019 (3):196-201.**
18. **Nguta, J.M., Micheni, N.K., 2019.** *In vitro* Antimicrobial Activity of Aqueous Extracts of *Ocimum suave* Willd. *Plectranthus barbatus* Andrews and *Zanthoxylum chalybeum* Engl. Against Selected Pathogenic Bacteria. **Biomed Biotechnol Res J, 2019, (3):30-34.**
19. Musila, F.M., Lukhoba, C.W., **Nguta, J.M., Dossaji, S.F., 2017.** Phylogeny of ten Kenyan *Plectranthus* species in the coleus clade inferred from leaf micromorphology, *Rbcl* and *MatK* genes. **Journal of Botany, (Vol. 2017), pp. 1-16.**
20. Musila, F.M., **Nguta, J.M., Lukhoba, C.W., Dossaji, S.F., 2017.** Antibacterial and antifungal activities of 10 Kenyan *Plectranthus* species in the Coleus clade. **Journal of Pharmacy Research, Vol. 11, Issue 8, pp 1003-1014.**
21. Chalo, D.M., Lukhoba, C.W., Dossaji, S.F., **Nguta, J.M., 2017.** Antimicrobial activity, toxicity and phytochemical screening of selected medicinal plants of Losho, Narok County, Kenya. **Journal of Natural Product Biochemistry, Vol 15 (1), pp. 29-43.**
22. **Nguta, J.M., Appiah-Opong, R., Nyarko, A.K., Yeboah-Manu, D., Addo, G.A., Otchere, I.D., Kissi-Twum, A., 2016.** *In vitro* antimycobacterial activity and toxicity of eight medicinal plants against pathogenic and non-pathogenic mycobacterial strains. **International Journal of Mycobacteriology, 5 (2016) S106-S107.**
23. **Nguta, J.M., Appiah-Opong, R., Nyarko, A.K., Yeboah-Manu, D., Addo, G.A., Otchere, I.D., Kissi-Twum, A., 2016.** *In vitro* antimycobacterial and cytotoxic data on medicinal plants used to treat tuberculosis. **Data in Brief, Data in Brief 7 (2016) 1124-1130.**
24. **Nguta, J.M., Appiah-Opong, R., Nyarko, A.K., Yeboah-Manu, D., Addo, G.A., Otchere, I., Kissi-Twum, A., 2016.** Antimycobacterial and cytotoxic activity of selected medicinal plant extracts. **Journal of Ethnopharmacology.182, 10–15.**
25. Njenga, D., Irungu, B., Mbaria, J., Mutai C., **Nguta, J., 2016.** Antiplasmodial activity, cytotoxicity and acute toxicity of *Zanthoxylum Chalybeum* Engl. **World Journal of Pharmacy and Pharmaceutical Sciences, 5(11), 208-217.**
26. Omwenga, I., Kanja, L., **Nguta, J.M., Mbaria, J.M., Irungu, P., 2016.** Organochlorine pesticide residues in farmed fish in Machakos and Kiambu counties, Kenya. **Cogent Environmental Science. 2: 1153215.**

27. Kiraithe, M.N., **Nguta, J.M.**, Mbaria, J.M., Kiama, S.G., **2016**. Evaluation of the use of *Ocimum suave* Willd. (Lamiaceae), *Plectranthus barbatus* Andrews (Lamiaceae) and *Zanthoxylum chalybeum* Engl. (Rutaceae) as antimalarial remedies in Kenyan folk medicine. **Journal of Ethnopharmacology**. **178**, 266–271.
28. Musau, J.K., Mbaria, J.M., **Nguta, J.M.**, Mbaabu, M., Kiama, S.G., **2016**. Mosquito repellency and knockdown effect of a plant based formulation. **IOSR Journal of Pharmacy**, **6 (5)**, 09-14.
29. Musau, J.K., Mbaria, J.M., **Nguta, J.M.**, Mbaabu, M., Kiama, S.G., **2016**. Evaluation of genotoxicity potential of plants traditionally used for mosquito control in Kenya's South coast. **Merit Research Journal of Medicine and Medical Sciences**, **4 (4)**, 178-182.
30. Emily Muema., Peter Kinyanjui., James Mbaria., **Joseph Nguta.**, Sharon Chepkwony., Joseph Kamau., Nyamongo Onkoba., Atunga Nyachieo., **2016**. Toxicity and Safety of Khat (*Catha edulis*) consumption during pregnancy using Olive Baboons (*Papio anubis*) as experimental models: A Prospective Randomised Study. **Greener Journal of Epidemiology and Public Health**, **4 (3)**, 61-70.
31. Duncan, C.M., Catherine, L., Saiffudin, D., Nguta, **J.M.**, **2015**. *In vitro* antimicrobial activity of selected medicinal plants in Losho, Narok County, Kenya. **International Research Journal of Pharmacy**. **6 (12)**.
32. **Nguta, J.M.**, Appiah-Opong, R., Nyarko, A.K., Yeboah-Manu, D., Addo, G.A., **2015a**. Current perspectives in drug discovery against tuberculosis from natural products. **International Journal of Mycobacteriology**. **4**, 165–183.
33. **Nguta, J.M.**, Appiah-Opong, R., Nyarko, A.K., Yeboah-Manu, D., Addo, G.A., **2015b**. Medicinal plants used to treat TB in Ghana. **International Journal of Mycobacteriology** **4**, 116-123.
34. Njenga, D., Irungu, B., Mbaria, J., Mutai, C., **Nguta, J.M.**, **2015**. Antiplasmodial, Cytotoxic and Acute Toxicity Activities of *Vernonia lasiopus* O. Hoffman. **African Journal of Pharmacology and Therapeutics**. **4 (1)**, 16-20.
35. Mwangi, G.G., Wagacha, J.W., **Nguta, J.M.**, James M. Mbaria, J.M., **2015**. Brine shrimp cytotoxicity and antimalarial activity of plants traditionally used in treatment of malaria in Msambweni district. **Pharmaceutical Biology**. **53 (4)**, 588-593.
36. Kaigongi, M.M., Dossaji, S.F., **Nguta, J.M.**, Lukhoba, C.W., Musila, F.M., **2014**. Antimicrobial Activity, Toxicity and Phytochemical Screening of Four Medicinal Plants Traditionally Used in Msambweni District, Kenya. **Journal of Biology, Agriculture and Healthcare**. **4 (28)**.
37. Ochora, D.O., Dossaji, S.F., **Nguta, J.M.**, Akunda, E.M., **2014**. Antimalarial activity and acute toxicity of four plants traditionally used in treatment of malaria in Msambweni District of Kenya. **European International Journal of Science and Technology**. **3 (7)**.

38. Murithi, C.K., Dossaji, S.F., **Nguta, J.M.**, Lukhoba, C.W., **2014**. Antimalarial activity and *in vivo* toxicity of selected medicinal plants naturalised in Kenya. **International Journal of Education and Research**. **2 (5)**.
39. Omwenga, I., Kanja, L., **Nguta, J.M.**, Mbaria, J.M., Irungu, P., **2014**. Assessment of lead and cadmium residues in farmed fish in Machakos and Kiambu counties, Kenya. **Toxicological & Environmental Chemistry**, **96:1, 58-67**.
40. **Nguta, J.M.**, Mbaria, J.M., Winchester David Mvula, W.D., **2013**. Brine shrimp toxicity and *in vitro* antimicrobial activity of *Piliostigma thonningii* (Schum.) Milne-Redh. [Leguminosae-Caesalpinioideae] from Kenya and Malawi against some pathogens of human and veterinary importance. **Journal of Veterinary Medicine and Animal Health**. **5(9), 251-256**.
41. **Nguta, J.M.**, Mbaria, J.M., **2013**. Brine shrimp toxicity and antimalarial activity of some plants traditionally used in treatment of malaria in Msambweni district of Kenya. **Journal of Ethnopharmacology**. **148, 988-992**.
42. Mbaria, J.M., Ochodo, C., **Nguta, J.M.**, **2013**. Forensic case of lead poisoning from a battery manufacturing company in Nakuru, Kenya. **Japanese Journal of Veterinary Research** **61, S64-S66**.
43. Musila, M.F., Dossaji, S.F., **Nguta, J.M.**, Lukhoba, C.W., J. M. Munyao, J.M., **2013**. *In vivo* antimalarial activity, toxicity and phytochemical screening of selected antimalarial plants. **Journal of ethnopharmacology**. **146, 557-561**.
44. **Nguta, J.M.**, Mbaria, J.M., Gakuya, D.W., Gathumbi, P.K., Kabasa, J.D., Kiama, S.G., **2012**. Cytotoxicity of antimalarial plant extracts from Kenyan biodiversity to the brine shrimp, *Artemia salina* L. (Artemiidae). **Drugs and Therapy Studies**. **2:e12**.
45. **Nguta, J.M.**, Mbaria, J.M., Gakuya, D.W., Gathumbi, P.K., Kabasa, J.D., Kiama, S.G., **2012**. Evaluation of Acute Toxicity of Crude Plant Extracts from Kenyan Biodiversity using Brine Shrimp, *Artemia salina* L. (Artemiidae). **The Open Conference Proceedings Journal**. **3, 30-34**.
46. Gakuya, D.W., Mbaria, J.M., Kiama, S.G., Gathumbi, P.K., Mathiu, M., **Nguta, J.M.**, **2011**. Ethno veterinary Medicine: The Prospects of Integrating Medicinal Plant Products in Veterinary Medicine in Kenya. **Kenya Veterinarian**. **35 (2), 67-76**.
47. **Nguta, J.M.**, Mbaria, J.M., Gakuya, D.W., Gathumbi, P.K., Kabasa, J.D., Kiama, S.G., **2011**. Biological screening of Kenyan medicinal plants using *Artemia salina* L. (Artemiidae). **Pharmacologyonline**. **2, 458-478**.
48. **Nguta, J.M.**, Mbaria, J.M., Gakuya, D.W., Gathumbi, P.K., Kabasa, J.D., Kiama, S.G., **2011**. Ethnodiagnostic skills of the Digo community for malaria: A lead to traditional bioprospecting. **Frontiers in Pharmacology**. **2 (30)**.
49. **Nguta, J.M.**, Mbaria, J.M., **2011**. Bioavailability of Cobalt, Zinc and Selenium and Anthelmintic effects of fortified and non-fortified albendazole in sheep. **Kenya Veterinarian**. **35, 9-17**.

50. **Nguta, J.M.**, Mbaria, J.M., Gakuya, D.W., Gathumbi, P.K., Kiama, S.G., **2010a**. Traditional antimalarial phytotherapy remedies used by the South Coast community, Kenya. **Journal of Ethnopharmacology**. **131**, 256-267.

51. **Nguta, J.M.**, Mbaria, J.M., Gakuya, D.W., Gathumbi, P.K., Kiama, S.G., **2010b**. Antimalarial herbal remedies of Msambweni, Kenya. **Journal of Ethnopharmacology** **128**, 424-432.

**Papers/Abstracts published/presented in conference proceedings:**

1. **Nguta, J.M.**, **2021**. Bioprospecting against zoonotic *Mycobacterium tuberculosis* from natural products of plant biodiversity, **Abstract presented (oral)** at the University of Nairobi College of Health Sciences and Kenyatta National Hospital 5<sup>th</sup> International Conference on Health (ICH 2021), **(on 28.10.21) virtually during 27<sup>th</sup> to 29<sup>th</sup> October, 2021**, under theme: *Healthcare and Innovation in the Pandemic Era*

2. **Nguta, J.M.**, **2021**. Antimycobacterial activity and cytotoxicity of total extracts from *Solanum torvum* Swartz. (Solanaceae), **Abstract presented (oral)** at the University of Nairobi College of Health Sciences and Kenyatta National Hospital 5<sup>th</sup> International Conference on Health (ICH 2021), **(on 28.10.21) virtually during 27<sup>th</sup> to 29<sup>th</sup> October, 2021**, under theme: *Healthcare and Innovation in the Pandemic Era*

3. **Nguta, J.M.**, **2021**. Antimicrobial activity of *Solanum torvum* crude extracts against important mycobacterial strains. **Abstract presented (oral)** at the African Research Universities Alliance (ARUA) **2021** Biennial International Conference, during **18<sup>th</sup> -20<sup>th</sup> November, 2021**, under the conference theme: *Global Public Health Challenges: Facing Them in Africa*.

4. Dónal O'Mathúna, Andréia G. Arruda, Getnet Yimer, **Nguta Joseph**, Kuastros M. Belaynehe.,2021. One Health Research Ethics: At the Crossroads of Human, Animal, Plant and Environmental Ethics. **Abstract presented (oral)** at the (Dynamic Virtual Meeting), during **11<sup>th</sup> to 16<sup>th</sup> October, 2021** at the American Society for Bioethics and Humanities (ASBH) 23<sup>rd</sup> Annual Conference, under the theme: *Bioethics and Humanities at the Crossroads*

5. Kuastros M. Belaynehe, **Joseph M. Nguta**, Andréia G. Arruda, Getnet Yimer, Dónal O'Mathúna., 2021. "Community engagement during One Health research amidst conflict, drought, and animal disease: A case study in Somali Region of Ethiopia": **Case study** presented during Global Forum for Humanitarian Health (GFH2R) Research, **during 15 – 18 November, 2021 – Virtual GFH2R**

6. Dorine N. Matara, **Joseph M Nguta.**, Fredrick M Musila, Isaac M. Mapenay., **2021**. Phytochemical analysis and investigation of the antimicrobial and cytotoxic activities of *Croton dichogamus* Pax Crude root extracts. **Abstract presented (oral)** at the University of Nairobi College of Health Sciences and Kenyatta National Hospital 5<sup>th</sup> International Conference on Health (ICH 2021), **virtually, (on 28.10.21), during 27<sup>th</sup> to 29<sup>th</sup> October, 2021**, under theme: *Healthcare and Innovation in the Pandemic Era*

7. James K. Mailu, **Joseph M Nguta**, James M Mbaria., **2021**. Medicinal plants used in managing diseases of the respiratory system among the Luo community: An appraisal of Kisumu East Sub-

County. **Abstract presented (oral)** at the University of Nairobi College of Health Sciences and Kenyatta National Hospital 5<sup>th</sup> International Conference on Health (ICH 2021), **virtually, (on 28.10.21), during 27<sup>th</sup> to 29<sup>th</sup> October, 2021**, under theme: *Healthcare and Innovation in the Pandemic Era*

8. Ali Hashim, **Joseph M.Nguta**, Isaac M Mapenay., 2021. Evaluation of Antimicrobial Activity, Cytotoxicity and Phytochemical Composition of *Ocimum Americanum* L. (Lamiaceae). **Abstract presented (poster)** at the University of Nairobi College of Health Sciences and Kenyatta National Hospital 5<sup>th</sup> International Conference on Health (ICH 2021), **virtually, (on 28.10.21), during 27<sup>th</sup> to 29<sup>th</sup> October, 2021**, under theme: *Healthcare and Innovation in the Pandemic Era*

9. **Nguta, J.M., 2021.** Antimycobacterial activity of *Solanum torvum* (Solanaceae) crude extracts. **Abstract presented (oral), under subtheme: Infectious diseases** at the Virtual 8th East African Health and Scientific Conference (8th EAHSC) & International Health Exhibition and Trade Fair, during **17<sup>th</sup> to 19<sup>th</sup> November, 2021.**

10. **Nguta, J.M.,** “Antimycobacterial activity of total extracts from *Solanum torvum* Swartz. (Solanaceae)” Presented as **an oral presentation In:** The 3<sup>rd</sup> Asian African Congress of Mycobacteriology (3<sup>rd</sup> AASM-2021), in a Webinar Conference, **during January, 27-29, 2021.**

11. **Nguta, J.M.,** “Antimicrobial activity of *Solanum torvum* hydroethanolic extracts against important mycobacterial strains” Presented as **a poster presentation In:** Biennial Global One Health Day 2020 Conference at The Ohio State University, under the theme, “Strengthening Global Resilience through One Health: A 2020 Vision for a Sustainable Future,” in a Webinar Conference, **during November, 05<sup>th</sup> -07<sup>th</sup>, 2020.**

12.**Nguta, J.M.,** “Medicinal plants traditionally used against tuberculosis in Ghanaian ethnomedicine” Presented as **an oral presentation At: The University of Nairobi Annual Research Week**, under the theme, “Advancing Science for Sustainable Development” in a Webinar Conference, **during October, 14-16, 2020.**

13.**Nguta, J.M.,** “Antimycobacterial activity of compounds isolated from *Solanum torvum* Swartz. unripe fruits (Solanaceae)” Presented as **an oral presentation At: The University of Nairobi Annual Research Week**, under the theme, “Advancing Science for Sustainable Development” in a Webinar Conference, **during October, 14-16, 2020.**

14. **Nguta, J.M.,** “*In vitro* antimycobacterial activity and cytotoxicity of compounds isolated from crude extracts of *Solanum torvum* Swartz. (Solanaceae)”. Presented as **an oral presentation At: The second webinar on veterinary medicine and animal sciences 2020**, under the theme, “Investigating Covid-19 challenges in the field of veterinary science” **during September, 25<sup>th</sup>, 2020.**

15. **Nguta, J.M.,** “Antimycobacterial activity of crude of *Solanum torvum* Swartz. (Solanaceae)”. Presented as **an oral presentation At: The second webinar on veterinary medicine and animal sciences 2020**, under the theme, “Investigating Covid-19 challenges in the field of veterinary science” **during September, 25<sup>th</sup>, 2020.**

16. **Nguta, J.M.**, “*In vitro* bacteriostatic activity of total extracts from *Solanum torvum* Swartz. (Solanaceae) against pathogenic *M. tuberculosis* H37Rv (ATCC 27294) strain”. Presented as **an oral presentation At: The 2019 edition of University of Nairobi research week**, College of Biological and Physical Sciences (CBPS), under the theme, “Science and cross-disciplinary research and practices transforming society for sustainable development”, **at Chiromo Campus, Nairobi, Kenya, during October, 23<sup>rd</sup>-25<sup>th</sup>, 2019.**

17. **Nguta, J.M.**, “Targeting malaria eradication using local traditional herbal medicine”. Presented as **an oral presentation At: The Scientific Revival Day of Africa celebrations 2019**, under the theme, “ Food Security and Universal Healthcare in Kenya”, **at Nairobi Safari Club, Nairobi, Kenya, during July, 4<sup>th</sup>, 2019.**

18. **Nguta, J.M.**, “Bioguidance: Towards isolation, structure elucidation and characterization of antimycobacterial steroidal sapogenin from *Solanum torvum* Swartz. unripe fruits (Solanaceae)”. Presented as **a poster At: The Nairobi Innovation Week (NIW) Innovation Summit 2019, at The University of Nairobi Towers, during June, 10-14, 2019.**

19. **Nguta, J.M.**, “*In vitro* antimycobacterial activity and cytotoxicity of selected medicinal plants against pathogenic and non-pathogenic mycobacterial strains”. Presented as **an oral presentation At: The 4<sup>th</sup> International Congress on Pathogens at the Human-Animal Interface (4<sup>th</sup> ICOPHAI-2017), at Ritz Carlton Doha, West Bay Lagoon, Doha-Qatar, during November, 7-9, 2017.**

20. **Nguta, J.M.**, Bioassay guided fractionation and isolation of antimycobacterial spirostane-type steroidal sapogenin, (25S)-6 $\alpha$ -hydroxy-5 $\alpha$ -spirostan-3-one from *Solanum torvum* Swartz. (Solanaceae).”. Presented as **an oral presentation In: 2017 research conference under theme, “Exploring Kenyan Biodiversity: Chemistry, Pharmacology and Commercialization” at the Great Rift Valley Lodge, Naivasha, Kenya, September, 10-14, 2017.**

21. **Nguta, J.M.**, Isolation and structure elucidation of antimycobacterial spirostane-type steroidal sapogenin, (25S)-6 $\alpha$ -hydroxy-5 $\alpha$ -spirostan-3-one from *Solanum torvum* Swartz. (Solanaceae).”. Presented as **an oral presentation In: 2017 research conference under theme, “Postdoctoral fellowships and the control of infectious diseases of poverty in Africa” at Noguchi Conference facility, Accra, Ghana, during 4-6 May, 2017.**

22. **Nguta, J.M.**, “*In vitro* antimycobacterial activity and cytotoxicity of selected medicinal plants”. Presented as **an oral presentation In: The 2<sup>nd</sup> Asian African Congress of Mycobacteriology (2<sup>nd</sup> AASM-2017), at Abbasi Grand hotel, Isfahan-Iran, during February, 25-28, 2017.**

23. **Nguta, J.M.**, "Antimycobacterial activity of the hydroethanolic extract, partitions, fractions and compounds from *Solanum torvum* leaves". **An oral presentation In: Symposium on “New research perspectives on infectious diseases in Africa and Germany”, at the Max Plank Institute for Infection Biology (MPI-IB) in Berlin, Germany, during October 24-26, 2016.**

24. **Nguta, J.M.**, “*In vitro* antimycobacterial activity and toxicity of eight medicinal plants against pathogenic and non-pathogenic mycobacterial strains”. Presented as a **poster In: The second Biennial Scientific Conference of the College of Health Sciences, University of Ghana, under theme, “New threats and old challenges in communicable disease epidemics” at the Ghana College of Physicians and Surgeons, Accra, during 28<sup>th</sup>-30<sup>th</sup> September, 2016.**

25. **Nguta, J.M.**, “*In vitro* antimycobacterial activity and cytotoxicity of antitubercular plants traditionally used in Eastern region, Ghana”. Presented as a **poster (DDTWC– 6) In: Drug Discovery & Therapy World Congress 2016 (DDTWC-2016)**, at **John B. Hynes Veterans Memorial Convention Center, Boston, USA, during August 22nd – 25th, 2016.**
26. **Nguta, J.M.**, “Anti-tuberculosis potential of traditionally used medicinal plant species against pathogenic and non-pathogenic mycobacterial strains”. Presented as a **poster (0002) In: Epidemiological Transitions meeting, at the InterContinental Hotel in Nairobi, Kenya, during July 07-08, 2016.**
27. **Nguta, J.M.**, “Investigation of plant natural products as potential drug candidates against malaria”. **An oral presentation In: RISE AFFNET University of Nairobi Node 2016 Meeting: Accomplishments and way forward, at Mash Park Hotel, Nairobi, Kenya during June 15-18, 2016.**
28. **Nguta, J.M.**, “Bio guidance: Towards Isolation of antimycobacterial compounds from *Solanum torvum* Sw. / (Solanaceae) leaves”. **An oral presentation In: Rise 2016 Meeting: A Celebration, at Hilton Hotel, Nairobi, Kenya during April 19-22, 2016.**
29. **Nguta, J.M.**, “Some Ghanaian medicinal plants have antimycobacterial activity against pathogenic and non-pathogenic Mycobacterium species”. Presented as a **poster (PP149) In: The 2<sup>nd</sup> International Conference on Natural Products Utilization (ICNPU-2015): From Plants to Pharmacy Shelf, at Novotel Plovdiv, Plovdiv, Bulgaria, during October 14-17, 2015.**
30. **Nguta, J.M.**, “An inventory of medicinal plants used to treat tuberculosis by the Greater Accra and Eastern communities from Ghana”. Presented as an **invited lecture In: The 1<sup>st</sup> Asian African Congress of Mycobacteriology (1<sup>st</sup> AACM-2015), at Abbasi Grand hotel, Isfahan-Iran, during March 7-13, 2015.**
31. **Nguta, J.M.**, “Acute toxicity, Antimalarial activity and phytochemical screening of Selected Medicinal Plants”. Presented as a **Poster Presentation (ID.45) In: The 2<sup>nd</sup> International Congress on Pathogens at the Human-Animal Interface (ICOPHAI- 2013): One Health for Sustainable Development, Summerville Beach Resort, Porto de Galinhas, Brazil, during August 14-17, 2013.**
32. **Nguta, J.M.**, “Antimalarial activity of some plants traditionally used in treatment of malaria in Msambweni district, Kenya”. **In: The Proceedings of a RISE AFNNET workshop-University of Nairobi Node in KCB Karen, Nairobi, during 26<sup>th</sup> -27<sup>th</sup> October 2012.**
33. **Nguta, J.M.**, “Efficacy, Safety and Phytochemical Screening of Selected Antimalarial Plants from Kenya”. Presented as a **Session lecture (SL) In: The 13<sup>TH</sup> International Symposium on Natural Product Chemistry and Related Biological Sciences, International Centre for Chemical and Biological Sciences (ICCBS), University of Karachi, Pakistan during September 22-25, 2012.**
34. **Nguta, J.M.**, “Spectroscopic determination of cobalt and copper in grass pastures in Kabete, Kenya”. Presented as a **poster presentation In: The 4<sup>th</sup> International Toxicology Symposium in Africa, held at Samora Machel School of Veterinary Medicine, University of Zambia from 2<sup>nd</sup>**

to 4<sup>th</sup> September, 2012.

35. **Nguta, J.M.**, “Natural products: An exciting source of new pharmacophores against malaria”. Presented as an **oral presentation In: The 8<sup>th</sup> Biennial Scientific Conference and the 46<sup>th</sup> Kenya Veterinary Association Annual Scientific Conference held at Safari Park Hotel, Nairobi, Kenya, from 25<sup>th</sup> to 27<sup>th</sup> April 2012.**

36. **Nguta, J.M.**, “Cytotoxicity of antimalarial plant extracts from Kenyan Biodiversity to the Brine Shrimp, *Artemia salina* L. (Artemiidae)”. Presented as a **Session lecture (SL) In: The 4<sup>th</sup> International Conference on Drug Discovery and Therapy (4<sup>th</sup> ICDDT) 2012, at Dubai men’s college, Dubai, United Arab Emirates, February 12<sup>th</sup>-15<sup>th</sup>, 2012, Dubai, UAE: Published In: Current Medicinal Chemistry (Impact Factor: 4.63)**

37. **Nguta, J.M.**, “*Plants as source of drugs: Ethnopharmacology, Pharmacology and Toxicology of selected antimalarial herbal plants from Msambweni district, South coast Kenya*”. In: The Proceedings of a RISE AFNNET workshop-University of Nairobi Node in **Chak Guest House, Nairobi, on 13<sup>th</sup> December 2011.**

38. **Nguta, J.M.**, “Biological screening of Kenyan antimalarial plant extracts in brine shrimp bioassay”. In: The first international congress on Human-Animal Interface (ICOPHAI): Impact, Limitations and Needs in Developing Countries in the United Nations Conference Centre, **Addis Ababa, Ethiopia** from September 12<sup>th</sup> to 18<sup>th</sup>, 2011, sponsored by USDA/APHIS in collaboration with Ohio State University.

39. **Nguta, J.M.**, “Exploiting Natural Products from African Biodiversity in Pest Management: from Extraction of Plant chemicals to Expression in GMOs”. In: The proceedings of a continuous professional development (CPD) workshop on, “**Advances in pest management and the role of veterinarians**” organized and held at the **Department of Public Health, Pharmacology and Toxicology on 16/09/2011.**

40. **Nguta, J.M.**, “Toxicity of crude plant extracts and antitumour drugs in the Brine Shrimp Bioassay”. In: The Proceedings of the **I<sup>st</sup> International Scientific Conference, College of Health Sciences, University of Nairobi, Kenya during June 15-17<sup>th</sup>, 2011.** (Poster No. 42).

41. **Nguta, J.M.**, “Natural products from plant biodiversity and malaria”: In: The 12<sup>TH</sup> International Symposium on Natural Product Chemistry and Related Biological Sciences, International Centre for Chemical and Biological Sciences (ICCBS), **University of Karachi, Pakistan** during November 22-25, 2010.

42. **Nguta, J.M.**, “Development of ethnomedicines for management of malaria in Msambweni district, Kenya”: In: The Proceedings of a Workshop on Regional Networks in Africa, held on October 5-6<sup>th</sup>, 2010 at the Kopanong Hotel and Conference Centre in Benoni, **South Africa, near Johannesburg.**

43. **Nguta, J.M.**, “Ethnodiagnostic Skills of the Digo Community for malaria: A lead to traditional bioprospecting?”: In: The Proceedings of the **I<sup>st</sup> East and Central Africa Regional Symposium for the Carnegie-RISE Fellows** held on September 15<sup>th</sup>, 2010 at **Royale Imperial Hotel, Kampala-Uganda, East Africa.**

44. **Nguta, J.M.**, “Bioavailability of cobalt and anthelmintic effects of albendazole fortified with cobalt (Vermitan super) in sheep”: In: The Proceedings of the 7<sup>th</sup> Biennial Scientific Conference, held on September 8<sup>th</sup> To 10<sup>th</sup>, 2010 at the **Department of Public Health, Pharmacology and Toxicology Auditorium, Upper Kabete Campus.**

45. **Nguta, J.M.**, “Spectroscopic determination of cobalt and copper in grass pastures in Kabete”: In: The Proceedings of the 7<sup>th</sup> Biennial Scientific Conference held on September 8<sup>th</sup> To 10<sup>th</sup>, 2010 at the **Department of Public Health, Pharmacology and Toxicology Auditorium, Upper Kabete Campus.**

46. **Nguta, J.M.**, Presented a paper entitled “**THERAPEUTICS OF EAST COAST FEVER: EXPERIENCES AS A FIELD VETERINARIAN**” on a stakeholders workshop to discuss a proposal on medicinal plants extracts evaluation and commercialization for improved livelihoods; a case study of east coast fever, in **Njoro campus, Egerton University on 15<sup>th</sup> to 18<sup>th</sup> February, 2007.**

47. **Nguta, J.M.**, “A Powerful cure for cancer and other “incurable” diseases”: In: The fifth Biennial Scientific Conference of the Faculty of Veterinary Medicine, **University of Nairobi. 6-8<sup>th</sup> September 2006. pp 26.**

48. **Nguta, J.M.**, “Determination of trace element status in pasture grasses in various regions in Kenya”: In: The fifth Biennial Scientific Conference of the faculty of Veterinary Medicine of the **University of Nairobi. 6-8<sup>th</sup> September 2006, pp 3.**

### **WORKSHOPS ATTENDED**

1. Attended an International Workshop on, “ Integrity in Biomedical Research: Research Integrity in Clinical Trials” organized by the Universal Egyptian Assisted Reproductive Technology Summit (UEARS) in collaboration with Assiut University-Granada University, and COMSTech on **23<sup>rd</sup> and 24<sup>th</sup> February, 2022.**

2. Attended a Systematic Review Workshop on, “Conducting Systematic Reviews of Intervention Studies”, organized by Helene Fuld Health Trust National Institute for Evidence-Based Practice in Nursing and Healthcare, The Ohio State University, during November 8 & 10, 2021.

3. Attended the University of Nairobi College of Health Sciences and Kenyatta National Hospital 5<sup>th</sup> International Conference on Health (ICH 2021), **virtually during 27<sup>th</sup> to 29<sup>th</sup> October, 2021**, under theme: *Healthcare and Innovation in the Pandemic Era*

4. Attended the Africa Centre for Disease Control and Prevention (Africa CDC) inaugural virtual One Health conference **during November, 1-3<sup>rd</sup>, 2021.**

5. Attended the Virtual 8th East African Health and Scientific Conference (8th EAHSC) & International Health Exhibition and Trade Fair, during **17<sup>th</sup> to 19<sup>th</sup> November, 2021**, under the conference theme: East African Community Sustainable Development Goal on Health: Reflection and Path Ahead to 2030.

6. Attended the African Research Universities Alliance (**ARUA**) **2021** Third Biennial International Conference at the Future Africa Campus and Institute Facility at the University of Pretoria, during **18<sup>th</sup> -20<sup>th</sup> November, 2021**, under the conference theme: Global Public Health Challenges: Facing Them in Africa.
7. Attended an Online workshop organized by the African Research Universities Alliance (**ARUA**), Centre of Excellence for Non-Communicable Diseases (**ACE-NCD**), hosted at the University of Nairobi on: **“Grant Proposal Writing”, during, March, 29-30, 2021.**
8. Attended Keystone eSymposia on: “COVID-19: One Year Later | EK32”, during **February 8-9, 2021 | 10:00AM EST | 3:00PM UTC.**
9. Attended Keystone eSymposia on: “Diabetes: Many Faces of the Disease (EK 18); Jointly organized together with, Obesity: From cell to patient (EK 17)”, during **February 1-3, 2021 | 10:00AM EST | 3:00PM UTC.**
10. Attended a webinar organized by COMSTECH on: “Engagement in medical research to promote national health and wellbeing, during, January, **21, 2021, 10:00 AM Islamabad, Karachi, Tashkent.**
11. Attended a webinar organized by COMSTECH on: “Innovation Policy for OIC states”, presented by Dr. Syeda Tanveer Kausar Naim, during, **January, 15, 2021, 03:00 PM Islamabad, Karachi, Tashkent.**
12. Attended Keystone eSymposia on: “Antibodies and Vaccines as Drugs for COVID-19”, during **January 13-14, 2021 | 9:00AM EST | 2:00PM UTC | 3:00PM CET**
13. Attended ePanel meeting organized by Keystone Symposia on: “The promise of artificial intelligence (AI) in pandemic times: Beyond the Hype”; **January 12, 2021 | 10:00AM EST | 3:00PM UTC | 4:00PM CET.**
14. Attended and participated in the virtual **live Keystone Symposia eSymposia meeting**, under the theme:, “ eSymposia | Tuberculosis: Science Aimed at Ending the Epidemic” **organized by Keystone Symposia, from December 2-4, 2020.**
15. Attended and participated in the 1<sup>st</sup> Annual African Initiative Group (AIG) Virtual Conference, via zoom, under the theme, “Perspectives on Covid-19 from Africa and the Diaspora” organized by **the African Initiative Group for Microbiology (AIG) during 12<sup>th</sup> September, 2020.**
16. Attended and participated in an online training workshop under the theme, “Online examination platforms-Moodle (eclass)” organized by the ICT Department, University of Nairobi on **15<sup>th</sup> May, 2020, from 3.30 to 5.30pm.**
17. Attended and participated in an online training workshop under the theme, “Online examination platforms-Turnitin” organized by the ICT Department, University of Nairobi on **15<sup>th</sup> May, 2020, from 2.00 to 3.30pm.**
18. Attended and participated in an online training workshop under the theme, “Online examination

platforms-Webworks (Mathematical tool)” organized by the ICT Department, University of Nairobi on 15<sup>th</sup> May, 2020, from 12.00 to 1.00pm.

19. Attended and participated in an online training workshop under the theme, “Administering Online Exams using University Learning and Management Systems (ULMS)” on **15<sup>th</sup> May, 2020, from 10.30 to 11.30am.**

20. Attended and participated in an online training workshop under the theme, “Training on Online Examination Platforms and Tools” organized by the ICT Department, University of Nairobi on **14<sup>th</sup> May, 2020, from 02.30 pm to 05.30 pm.**

21. Attended and participated in an online training workshop under the theme, “Covid-19: Adapting to a new reality” organized by the Africa Centre for Disease Control (CDC) on **14<sup>th</sup> May, 2020, from 10.00 am to 11.30 am.**

22. Attended and participated in an online training workshop under the theme, “Google Online tools for Teaching” organized by the ICT Department, University of Nairobi on **24<sup>th</sup> March, 2020, from 11.30 am to 12.30 pm.**

23. Attended and participated in an online training workshop under the theme, “E-Learning” organized by the ICT Department, University of Nairobi on **24<sup>th</sup> March, 2020, from 02.30 pm to 05.30 pm.**

24. Attended and participated in the Second Biennial international conference and workshops under the theme, “Africa and the Fourth Industrial Revolution: Defining a Role for Research Universities” organized by **the African Research Universities Alliance (ARUA)** during **18-20 November 2019, at the Auditorium on the 6th Floor of the University of Nairobi Towers, Nairobi, Kenya**

25. Attended and participated in a workshop under the theme, “Improving Exposure and Dissemination of science, technology and innovation (STI) for sustainable development in Africa” organized by the **2019 edition of University of Nairobi research week** in partnership with SciDev.Net on **22<sup>nd</sup> October, 2019, at University of Nairobi Towers, Nairobi, Kenya.**

26. Attended and participated in **2019 Scientific Revival Day for Africa (SRDA)**, organized by Kenya National Academy of Sciences (KNAS), under the theme, “Food Security and Universal Healthcare in Kenya” on **4<sup>th</sup> July, 2019, at Nairobi Safari Club, Nairobi, Kenya.**

27. Attended and participated in 2019 Nairobi Innovation Week (NIW) Innovation Summit during **13<sup>th</sup> to 14<sup>th</sup> June 2019 at the University of Nairobi Towers.**

28. Attended and participated in 2019 University of Nairobi Training on, “ Training of Staff on Creation of Awareness on the Universitys Complaints Handling System and Citizens Service Delivery Charter as well as Access to Information” on **03<sup>rd</sup> May 2019 at the University of Nairobi Towers, 11<sup>th</sup> Floor, from 8:00 am to 5:00 pm.**

29. Attended and participated in 2019 British Council Researcher Connect Training Workshop during **06<sup>th</sup> - 08<sup>th</sup> February 2019 at Radisson Blu Hotel, Nairobi.**

30. Attended and participated in 2018 Grand Challenges Sentinel Workshop during **04-7<sup>th</sup> December 2018 at Drug Discovery and Development Centre (H3D), University of Cape Town, South Africa.**

31. Attended and participated in 2018 Grand Challenges Annual Meeting during **15-18<sup>th</sup> October 2018 at Estrel Congress Center, Berlin, Germany.**

32. Attended and participated in 10<sup>th</sup> World Health Summit during **14-16<sup>th</sup> October 2018 at the Kosmos, Karl Marx Allee 131a/10243 Berlin, Germany.**

33. Attended and participated in Keystone Symposia Conference on, “21<sup>st</sup> Century Drug Discovery and Development for Global Health during **17-20<sup>th</sup> October 2018 at the Hotel Palace, Berlin, Germany.**

34. Participated in a grant proposal workshop, organized by the office of the Deputy Vice Chancellor, Research, Production & Extension, at the University of Nairobi Enterprises and Services (UNES) conference centre, Chiromo, **during 27<sup>th</sup> to 29<sup>th</sup> September, 2017.**

35. Participated in the workshop on, “Novel approaches to screening of natural products” under the workshop theme, “Exploring Kenyan biodiversity: Chemistry, Pharmacology and Commercialization” **during 10-14<sup>th</sup> September, 2017 at the Great Rift Valley Lodge, Naivasha, Kenya**

36. Attended a Trans-Disciplinary Research (TDR) training workshop organized by ICSU-NASAC-ISSC on, “The understanding of Energy-Health-Natural Disasters nexus in the urban environment in Africa” **during 3<sup>rd</sup> -7<sup>th</sup> October, 2016 at the Hilton Hotel in Nairobi, Kenya.**

37. Attended “**West African Centre for Cell Biology of Infectious Pathogens (WACCBIP) research conference**, under theme: *Improving health through advanced research and training*, during **14-15 July, 2016, at Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana.**

38. Attended, “**2016 Grand Challenges Grantees in Africa Meeting**” organized by the Alliance for Accelerating Excellence in Science in Africa (AESA) through the African Academy of Sciences, during **22<sup>nd</sup> to 26<sup>th</sup> February, 2016, at the Intercontinental Hotel, Nairobi, Kenya.**

39. Attended a workshop on “**Research grant development and management**” during **February 9<sup>th</sup> to 11<sup>th</sup>, 2015**, at the obstetrics and gynaecology conference room, College of Health Sciences, University of Ghana, Ghana.

40. Attended a workshop on, “**Introduction to intellectual property commercialization and entrepreneurship**” during **July 21<sup>st</sup>, 2014** at the conference room, Noguchi Memorial Institute for Medical Research (NMIMR), College of Health Sciences, University of Ghana.

41. Attended a workshop on, “**Writing a Winning Research Grant Proposal**” organized by the University of Ghana-Carnegie next generation of academics in Africa Project, held at the Centre for African Wetlands, University of Ghana **during 17<sup>th</sup> to 19<sup>th</sup> June 2014.**

42. Attended a workshop on **Biostatistics** organized by Noguchi Memorial Institute for Medical Research (NMIMR) and the Research Institute for Development (IRD) in conjunction with the French Embassy in Ghana, **during 2<sup>nd</sup> to 6<sup>th</sup> June, 2014** at **Noguchi Memorial Institute for Medical Research (NMIMR), University of Ghana.**

43. Attended the University of Nairobi Science Knowledge base (UONSK) E-learning workshop on TUSK software organized by One Health Central and Eastern Africa (OHCEA) during **20<sup>th</sup> to 25<sup>th</sup> March, 2014**, at the **Computer lab, School of Public Health, College of Health Sciences, University of Nairobi.**

44. Attended AGRA-WAGENINGEN UR WORKSHOP FOR THE UNIVERSITY OF NAIROBI- Competence and skills training for PhD supervisors and established scientists on, “Effective leadership, supervision skills and professional behavior in Academia, with the theme, Rise to the Challenge” organized by the **College of Agriculture and Veterinary Sciences held at the small animal clinic seminar room, department of clinical studies during January, 15<sup>th</sup> to 17<sup>th</sup>, 2014.**

45. Attended a workshop to review Veterinary Medicine curriculum at **Maanzoni Lodge, Machakos, during 16<sup>th</sup> to 20<sup>th</sup> September 2013.**

46. Attended a stakeholder’s workshop to review Veterinary Medicine curriculum at **Jacaranda hotel in Westlands, on 4<sup>th</sup> September 2013.**

47. Attended an International Course/International Workshop on, “Molecular Epidemiology and Applications in Foodborne, Nosocomial and Vector-borne Infectious Diseases of Global Significance” at **Summerville Beach Resort, Porto de Galinhas-Pernambuco (PE), Brazil during August 11to 14<sup>th</sup>, 2013.**

48. Attended the University of Nairobi Science Knowledge base (UONSK) E-learning workshop on TUSK software organized by One Health Central and Eastern Africa (OHCEA) during **6<sup>th</sup> to 9<sup>th</sup> August, 2013**, at the **Computer lab, 8-4-4 building, Upper Kabete Campus, University of Nairobi..**

49. Attended a workshop organized by the College of Agriculture and Veterinary Sciences titled, “Sensitization Workshop on Prevention of Alcohol and Drug Abuse, Gender and Disability Mainstreaming” on **Monday, May 27, 2013** at the **8-4-4 Lecture Theatre, Upper Kabete Campus.**

50. Attended a workshop organized by the US Department of State Biosecurity Engagement Program in Collaboration with the International livestock Research Institute at ILRI campus, Nairobi, Kenya from **1<sup>st</sup> October to 5<sup>th</sup> October, 2012**; whose theme was: **Working with Animals and Animal Vectors (Ticks) under containment level I, II and III.**

51. Attended a workshop organized by Regional Initiative in Science and Education (**RISE**) in Kampala, Uganda from **13<sup>th</sup> October to 15<sup>th</sup> October, 2011**; whose theme was: **Integration of Science and Technology Networks in National and Regional Development.**

52. Attended the 14<sup>th</sup> Natural Products Research Network for East and Central Africa (NAPRECA) Symposium and Association for African Medicinal Plants Standards (AAMPS) Ethnoveterinary Medicine Symposium **from 8<sup>th</sup> to 12<sup>th</sup> August 2011** at the International Center for Insect

Physiology and Ecology (ICIPE) Kasarani, Nairobi, Kenya; whose theme was: **Natural Products from African Biodiversity.**

53. Attended workshop on Forensic Veterinary Science, organized by the Department of Veterinary Pathology, Microbiology and Parasitology on: **Wednesday, 18<sup>th</sup> May, 2011.**

54. Attended ODEL sensitization and orientation workshop, held at the Department of Public Health, Pharmacology and Toxicology on **3<sup>rd</sup> March, 2011.**

55. 12<sup>TH</sup> International Symposium on Natural Product Chemistry and Related Biological Sciences, **International Centre for Chemical and Biological Sciences (ICCBS), University of Karachi, Pakistan during November 22-25, 2010.**

56. Workshop on Regional Networks in Africa held on **October 5-6<sup>th</sup>, 2010 at the Kopanong Hotel and Conference Centre in Benoni, South Africa, near Johannesburg.**

57. 1<sup>st</sup> East and Central Africa Regional Symposium for the Carnegie-RISE Fellows held on **September 15<sup>th</sup>, 2010 at Royale Imperial Hotel, Kampala-Uganda, East Africa.**

58. Regional PhD students Proposal Writing Workshop between **9-14 August 2010, at the Green Belt Movement Centre, Karen, Nairobi.**

59. Alternatives to use of Animals in Experiments in Education and Training, at the Kenya Institute of Education, during **23<sup>rd</sup>-24<sup>th</sup> September 2009, Nairobi-Kenya.**

60. 2<sup>nd</sup> Pharmacogenomics Workshop “Pharmacogenetics of Drug Metabolism: Clinical Pharmacogenetics-towards individualized treatment” **22<sup>nd</sup>-26<sup>th</sup> June 2009, PanAfric Hotel, Nairobi, Kenya.**

61. Attended a workshop on: Performance Enhancement Strategies Course held on **31<sup>st</sup> January 2009 at Central Catering Unit: Organized by the Faculty of Veterinary Medicine, University of Nairobi and the Empowerment Resource Technologies Limited.**

62. Attended a stakeholders workshop to discuss a proposal on medicinal plants extracts evaluation and commercialization for improved livelihoods; a case study of east coast fever, in Njoro campus, **Egerton University on 15<sup>th</sup> to 18<sup>th</sup> February, 2007.**

63. Attended a workshop on E-resources training for faculties of Veterinary Medicine and Agriculture on **17/03/2010, at the College of Agriculture and Veterinary Sciences.**

64. Attended a stakeholder’s workshop on curriculum development in natural products technology and value chain management **at KCB training centre, Karen between 6-8<sup>th</sup>/12/2009.**

65. Attended E-learning course for academic staff members, Faculty of Veterinary Medicine at **Chiromo Campus between 1-5<sup>th</sup> /03/2010.**

66. Pharmacogenetics of Drug Metabolism – **Nairobi, Kenya 24<sup>th</sup> –28<sup>th</sup> August 2010, at PanAfric Hotel, Nairobi, Kenya.**

67. Attended PhD Research Support Systems workshop held **between 8<sup>th</sup> and 9<sup>th</sup> July, 2010 at the Clinical Studies Department seminar room.**

68. Attended and presented a paper titled “Bioavailability of Cobalt and anthelmintic effects of albendazole fortified with Cobalt (Vermitan super) in sheep at the **44<sup>th</sup> Kenya Veterinary Association Annual Scientific Conference at Almond Resort, Garissa.**

### **Community Service/Outreach**

1. Served the **University of Nairobi as a Returning Officer (RO)**, In charge of **Chiromo Campus Electoral College, for the UNSA 2020 online elections** conducted on **Friday, November 13, 2020.**
2. Served the University of Nairobi Student Community **as a Judge** for the **HULT PRIZE 2021 Challenge**, Virtual quarter and Semi-final competitions, **under the theme, “Transforming food into a vehicle for change”, during October 30<sup>th</sup>, 2020, and November 13<sup>th</sup>, 2020, respectively.**
3. Organized and participated in **Community Service** through education and exhibitions to Kangemi Slum dwellers on control of food and waterborne diseases under **Smithsonian Do It Yourself (DIY) Outbreaks Community Project**, funded by American Society for Microbiology (ASM), on **28th November, 2019 at Kangemi market, Nairobi, Kenya.**
4. Attended and participated in **Community Service** through vaccination of livestock against foot and mouth disease, vaccination of dogs against rabies and population control of dogs through spaying during the 53rd Kenya Veterinary Association annual scientific conference under the theme, “value of vaccinations” **during 24th to 26th April 2019** at the Acacia Premier Hotel in Kisumu.
5. Served the **University of Nairobi as a Returning Officer (RO)**, In charge of Upper Kabete Campus Electoral College, for the **UNSA 2019 elections** conducted on **Friday, April 05<sup>th</sup>, 2019.**
6. Actively participated in **Community Service** through Tsetse and Trypanosomiasis Eradication Campaign in Lambwe Valley, Homabay County from **25th to 28th February 2019.**
7. Attended and participated in **Community Service** through vaccination of dogs against rabies and population control of dogs through spaying during the World Rabies Day Celebrations held on **28th September, 2018** at Diani, Kwale County, Kenya.
8. I have continued to provide logistical and financial support **in aid of construction and development of my local/village church, African Brotherhood Church (ABC), Kivi.**

9. I have continued to provide **free professional services and technical advise** to **dairy farmers** in my sub-location, Malatani sub-location.

### **Students supervision**

#### **A). Doctoral students**

##### **a). Doctor of Philosophy (PhD) students supervised to completion:**

1. **Dr. Emily Kamanthe Muema, Dept. of PHPT:** Study title: “Evaluation of Biochemical and Toxicological effects of Khat (*Catha edulis*) on Pregnancy and Fetal Development”. **From 25<sup>th</sup> March 2013 to 04/12/2015. (Graduated on 04/12/2015).**
2. **Joseph Kisivo Musau, Dept. of PHPT, Reg. No. J87/83561/2012 :** Study title: “Development of a biopesticide for use against mosquitoes from selected plants in Msambweni distict, Kenya”. **From 18<sup>th</sup> April 2012 to December, 2016 (Graduated on 02/12/2016).**
3. **Fredrick Mutie Musila (Bsc, Msc. (UON), School of Biological Sciences. Reg. No. I80/92761/2013.** Study title: “Molecular Phylogeny, Micromorphology, Diterpene Distribution and Antimicrobial Activities of the Leaves of the Kenyan *Plectranthus* Species (*Coleus* Clade)” **From 25<sup>th</sup> September 2013 to December, 2016 (Graduated on December, 2017).**

##### **b). Doctor of Philosophy (PhD) students currently under supervision:**

1. **David Njenga Ngugi (BPharm, MSc), (J87/54441/2019), Department of Public Health, Pharmacology and Toxicology:** Study title: “Evaluation of antimicrobial activity, toxicity and activity of bacterial metabolites from Lake Magadi, Kenya”, **From 01/05/2019 to date.**
2. **Abdi Hadun, (BPharm, MSc), (J87/54792/2019), Department of Public Health, Pharmacology and Toxicology:** Study title: “Ethnobotanical survey, phytochemistry, toxicity and anticancer properties of selected medicinal plants used by herbalists in Garissa County, Kenya”, **From 06/09/2019 to date.**

#### **B). Master of Science(MSc):**

##### **a). Master of Science (MSc) students supervised to completion:**

1. **Mr. MUTIE MUSILA (I56/65121/2010), School of Biological Sciences:** Study title: “Phytochemical Screening, *in vivo* Antimalarial Activity and Cytotoxicity of Selected Antimalarial Plants” **From 22<sup>nd</sup> March 2011 to 2012 (Graduated on December, 2012).**
2. **Dr. Isaac Mokaya Omwenga (J56/64950/2010), Dept. of PHPT:** Study title: “An Assessment of pesticide and Heavy Metal Residues in inland Fish farming in Machakos and Kiambu Counties,

Kenya” From 15<sup>th</sup> March 2012 to December, 2013 (Graduated on 06/12/13).

**3. Mr. GEORGE GICHARU MWANGI (I56/61302/2010), School of Biological Sciences:** Study title: “*In vivo* Antimalarial and Cytotoxic Effects of Selected Plant Extracts used in Kenya” From 15<sup>th</sup> December 2011 to 2012 (Graduated on December, 2012).

**4. Murithi Caroline Kathambi (I56/69310/2011), School of Biological Sciences:** Study title: “Antimalarial activity, acute toxicity and Phytochemical Screening of Selected Antimalarial plants” From 1<sup>st</sup> April 2012 to 2<sup>nd</sup> October 2013 (Graduated on 06/12/13).

**5. Mr. Ochora Onger Douglas (I56/70222/2011), School of Biological Sciences:** Study title: “Antimalarial activity, acute toxicity and Phytochemical Investigations of Plant extracts from Kenyan Biodiversity” From 2<sup>nd</sup> March 2012 to December, 2013 (Graduated on 06/12/13).

**6. Dr. David Njenga Ngugi (J56/69921/2011), Department of Public Health, Pharmacology and Toxicology:** Study title: “Study of antimalarial activity, cytotoxicity and acute toxicity of *Zanthoxylum chalybeum* and *Vernonia lasiopus* Hoffman” From 1<sup>st</sup> June 2012 to 05/12/2014 (Graduated on 05/12/2014).

**7. Ms. Magrate Muthoni Kaigongi (I56/62022/2013), School of Biological Sciences:** Study title: “Antimicrobial activity, toxicity and phytochemical analysis of four medicinal plants traditionally used in Msambweni district, Kenya”. From 01/06/2013 to 29/08/2014. (Graduated on 29<sup>th</sup> August, 2014).

**8. Mr. Kiraithe Micheni Ndi (J56/81176/2012), Department of Public Health, Pharmacology and Toxicology:** Study title: “Pharmacological and Toxicological Effects of Selected Antimalarial Plants from Msambweni district in Kenya” From 01/06/2013 to 04/12/2015. (Graduated on 04/12/2015)

**9. Dr. Joseph Okoth Ogollah (J56/60509/2013), Department of Public Health, Pharmacology and Toxicology:** Study title: “Studies on antimalarial activity and toxicity of *Securidaca longepedunculata* Fresen (Polygalaceae) organic and aqueous extracts” From 01/12/2013 to 04/12/2015 (Graduated on 04/12/2015).

**10. Duncan Mutiso Chalo (I56/68748/2013), School of Biological Sciences:** Study title: “Evaluation of antimicrobial activity and toxicity of selected medicinal plants from Losho, Narok South County, Kenya”. From 01/07/2014 to 04/12/2015 (Graduated on 04/12/2015).

**11. Ms. Jackueline Cherotich (I56/80259/2013), School of Biological Sciences:** Study title: “Antimicrobial activity, acute toxicity and phytochemical screening of four medicinal plants traditionally used in Sotik district, Kenya” From 01/06/2014 to 04/12/2015 (Graduated on 04/12/2015).

**12. Dr. James Kiamba Mailu, BPharm (J56/8202/2017), Department of Public Health, Pharmacology and Toxicology:** Study title: “Ethnopharmacological and toxicological study of commonly used medicinal plants against respiratory infections in Kisumu county” From 01/06/2018 to 24/09/2021 (Graduated on 24.09.21).

**13.Mr. Joseph Murithi Kathare, BPharm (J56/87863/2016), Department of Public Health, Pharmacology and Toxicology: Study title: “Antimicrobial activity and toxicity of selected medicinal plants from Muranga County, Kenya”. From 01/06/2018 to 17/12/2021. (Graduated: 17.12.2021)**

**14.Mr. John Karanja Muchonjo, BPharm, (J56/12647/2018). Department of Public Health, Pharmacology and Toxicology: Study title: “Evaluation of antinociceptive, anti-inflammatory activity, phytochemical composition and toxicity of *Mystroxylon aethiopicum* (Thumb.) Loes. (Celastraceae)”. From 16/09/2019 to 17/12/2021. (Graduated: 17.12.2021).**

**15.Dr. Matara Nyak Dorine, BPharm, (J56/34184/2019). Department of Public Health, Pharmacology and Toxicology: Study title: “Evaluation of antimicrobial activity and toxicity of crude extract from *Croton dichogamous*”. From 30/09/2020 to 17/12/2021. (Graduated: 17.12.2021)**

**b). Master of Science (MSc) students currently under supervision:**

- 1. Mr. Kevin Kariuki, BPharm, (J56/11246/2018). Department of Public Health, Pharmacology and Toxicology: Study title: “Studies on ethnopharmacology, antimicrobial activity and toxicity of *Catha edulis* Forssk. (Celastraceae)”. From 06/09/2019 to date.**
- 2. Dr. Obadiah Sing’oei Kipchirchir, BVM, (J56/7303/2017). Department of Public Health, Pharmacology and Toxicology: Study title: “Wound Healing, Antimicrobial Potential, Safety and Phytochemical Studies on *Rhus natalensis* and *Hoslundia opposita*” From 30/09/2020 to date.**
- 3. Dr. Hashim Mohammed Ali, BPharm, (J56/34824/2019). Department of Public Health, Pharmacology and Toxicology: Study title: “Investigation of Antihypertensive Activity and Toxicity of *Ocimum suave* Willd. Crude extracts”. From 30/09/2020 to date.**
- 4. Dr. Fadhira Juma Charo, BVM, (J56/36125/2019). Department of Veterinary Pathology, Microbiology and Parasitology: Study title: “Evaluation of Efficacy of *Aloe barbadensis* var. *barbadensis* against selected fish bacteria in Machakos and Nyandarua counties”. From 30/09/2020 to date.**
- 5. Dr. Vincent Mokoro Omambia, BPharm, (J56/11826/2018). Department of Public Health, Pharmacology and Toxicology: Study title: “Evaluation of antinociceptive activity and toxicity of *Hypericum revolutum* subsp. *keniense* Schweinf. (Hypericaceae) crude extracts”, From October, 2020 to date.**
- 6. Joseph Mwangi Kamau, BPharm (J56/37447/2020). Department of Public Health, Pharmacology and Toxicology: Study title: “Evaluation of antimicrobial activity, cytotoxicity and phytochemical composition of *Acokanthera schimperi* (Apocynaceae)”. From 22/09/2021 to date.**

7. **Kirkland Dingili Magwilu, BPharm (J56/37198/2020). Department of Public Health, Pharmacology and Toxicology: Study title:** “Investigation of antimicrobial activity, cytotoxicity and secondary metabolites of *Croton gratissimus* burch stem bark and root crude extracts”. **From 22/09/2021 to date.**

**Thesis examined:**

**A). Master of science (MSc):**

**1. Mr. Ochora Onger Douglas (I56/70222/2011): BSc.Plant Physiology and Biochemistry** (School of Biological Sciences, University of Nairobi).

**M.Sc Thesis Title:** “*Antimalarial activity, Acute Toxicity and Phytochemical Investigations of Plant Extracts from Kenyan Biodiversity*”. **Year of examination: 2013.**

**2. Mr. Fredrick Mutie Musila (I56/65121/2010): BSc.Biology** (School of Biological Sciences, University of Nairobi).

**M.Sc Thesis Title:** “*In vivo Antimalarial Activity, Cytotoxicity and Phytochemical Screening of Selected Antimalarial Plants*”. **Year of Examination: 2012.**

**3.Dr. Wamaitha Moses Njino (J56/76448/2014): Bachelor of Veterinary Medicine** (Clinical Studies Department).

**M.Sc Thesis Title:** “Evaluation of total intravenous anaesthesia with Ketofol in Acepromazine or Medetomidine sedated dogs” **Year of Examination: 2019**

**4. Dr. Beatrice Mwende Muia (J56/788061/2016): MSc (Pharmacology and Toxicology). MSc thesis title,** “ Studies on Phytochemical composition, antimicrobial activity and toxicity profile of *Fagoropsis hildebrandtii* root extracts”. **Year of examination: 2019.**

**5. Mr. James Kiamba Mailu, BPharm (J56/8202/2017), MSc (Pharmacology and Toxicology).** MSc thesis title, “Ethnopharmacological and toxicological study of commonly used medicinal plants against respiratory infections in Kisumu county” **Year of examination: November, 2020.**

**6. Dr. Matara Nyak Dorine, BPharm, (J56/34184/2019). Department of Public Health, Pharmacology and Toxicology: Study title:** “Evaluation of antimicrobial activity and toxicity of crude extract from *Croton dichogamous*”. **Year of examination: November, 2021.**

**7. Dr. Beatrice Akinyi Otina (J56/80909/2015), MVEE, MSc Thesis titled,** “Efficacy of Long Acting Oxytetracycline in Treating Contagious Bovine Pleuropneumonia in Cattle and Potential for Carrier Status in Treated Cattle”. **Year of examination: November, 2022.**

**Board of examiners meetings attended:**

**1. Attended Board of Examiners meeting for Ms. Njoki Ndegwa Pauline’s (I56/64025/2010) MSc. Thesis titled,** “*Diversity and Antibiotic Susceptibility of Bacterial Species Isolated from the Blood of Febrile Patients in Alupe, Western Kenya*” held on Wednesday, **19<sup>th</sup> June 2013 at 10:00 am in the School of Biological Sciences Seminar Room.**

**2.Attended Board of Examiners meeting for Mr. Mutie Musila’s (I56/65121/2010) M.Sc. thesis**

titled, “*In vivo Antimalarial Activity, Cytotoxicity and Phytochemical Screening of Selected Antimalarial Plants*” held on **Wednesday, 10/10/2012 in the School of Biological Sciences Seminar room.**

**3.** Attended Board of Examiners meeting for **Ms. Wambua peninah Nduku’s (I56/79440/2012)** M.Sc. thesis titled, “**Study of extend of use, efficacy***Development and evaluation of simple and rapid diagnostic assays for the detection of wildebeest associated malignant catarrhal fever in cattle in Kenya*” held on **Wednesday, 27<sup>th</sup> /09/2017 in the School of Biological Sciences Seminar room.**

**4.** Attended Board of Examiners meeting for **Ms. Kamau Loice Njeris (J80/95507/2014) PhD** thesis titled, “*Development and evaluation of simple and rapid diagnostic assays for the detection of wildebeest associated malignant catarrhal fever in cattle in Kenya*” held on **Wednesday, 27<sup>th</sup> /09/2017 in the School of Biological Sciences Seminar room.**

**5.** Attended Board of Examiners meeting for **Dr. Wamaitha Moses Njino (J56/76448/2014):** **M.Sc Thesis Title:** “Evaluation of total intravenous anaesthesia with Ketofol in Acepromazine or Medetomidine sedated dogs” held on Wednesday, **27/03/2019** at the Deans Boardroom, Faculty of Veterinary Medicine.

**6.** Attended Board of Examiners meeting for **Dr. Beatrice Mwende Muia (J56/788061/2016):** MSc (Pharmacology and Toxicology). **MSc thesis title,** “ Studies on Phytochemical composition, antimicrobial activity and toxicity profile of *Fagoropsis hildebrandtii* root extracts”, held on Wednesday, **24/07/2019, 2:00 pm,** at the Deans Boardroom, Faculty of Veterinary Medicine.

**7.** Attended Board of Examiners meeting for **Dr. Wainaina Samuel Murigi (J56/89125/2016):** **MSc title:** “Ethnobotanical, anti-oxidant and toxicity study of selected medicinal plants used in Nyamira North sub county, Nyamira county” held on Thursday, **16/05/2019, 10:00 am,** at the Deans Boardroom, Faculty of Veterinary Medicine.

**8.** Attended **Virtual Board of Examiners meeting** for **Mr. Gai Abraham Biar (J56/7826/2017)** **MSc title:** “Impact of Involuntary resettlement on Livestock production and performance along Maasai pastoralists of Rapland area” held on Friday, **06/11/2020, 09:00 am,** and hosted by the Dean, Faculty of Veterinary Medicine.

**9.** Attended **Virtual Board of Examiners meeting** for **Ms. Faduma Abdullahi Abdirahman (J56/12447/2018)** **MSc title:** “Assesment of gender constraints, opportunities, impacts along the New castle Disease (NCD) value chain in Machakos” held on Monday, **30/11/2020, 09:00 am,** and hosted by the Dean, Faculty of Veterinary Medicine.

**10.** Attended **Virtual Board of Examiners meeting** for **Dr. Matara Nyak Dorine, BPharm, (J56/34184/2019).** **Department of Public Health, Pharmacology and Toxicology: Study title:** “Evaluation of antimicrobial activity and toxicity of crude extract from *Croton dichogamous*”. held on Monday, **22/11/2021, 11:00 am,** and hosted by the Dean, Faculty of Veterinary Medicine

**11.** Attended **Virtual Board of Examiners meeting** for **Dr. James Kiamba Mailu, BPharm (J56/8202/2017),** **MSc title:** “Ethnopharmacological and toxicological study of commonly used medicinal plants against respiratory infections in Kisumu county” held on Wednesday, **07/04/2021, 02:15 pm,** and hosted by the Dean, Faculty of Veterinary Medicine.

### **Undergraduate student projects supervised to completion:**

1. Comparative Study of Antimicrobial and Cytotoxic activity of *Pilliosigma thonningii* from two geographic regions, Malawi and Kenya, by: **Winchester M. David Mvula- Biomedical Technology (J38/21889/2007).**
2. An Assessment of Prevalence of *Escherichia coli* in Bottled Drinking Water, by **Rodgers Odhiambo Ochieng-Biomedical Technology (J38/30419/2009)**
3. Prevalence of Bovine Brucellosis in Laikipia County, Kenya, by **Kiarie Brenda Njeri-Biomedical Technology (J38/29848/2009).**
4. Comparison between Wet Chemistry and Ultrasonic Technology in Butterfat Determination in Milk, by **Sarah Wanjira Wanderi-Biomedical Technology (J38/24505/2008).**
5. Ouko John Kevin (**J30/2638/2014**), BVM (University of Nairobi). Evaluation of microbiological quality of drinking water in selected parts of Nairobi County using Colilert technique. (**Final year project, 2020**).
6. Kibiwot Meshack (**J30/2639/2016**), BVM (University of Nairobi). A study on medicinal plants used to treat livestock diseases in Chesumei Sub-County, Nandi County. (**Final year project, 2020**).
7. Shanet Naeku Sankale (**J36/5131/2017**), BSc, Leather Science, University of Nairobi. A study on comparison of conventional leather beam house processing and clean technology techniques in reduction of total dissolved solids. (**Final year project, 2020**).
8. Amos Obiero Nyakebako (**J36/5157/2017**), BSc, Leather Science, University of Nairobi. Evaluation of factors affecting hides/skins value addition in Kitutu Chache South Sub-County, Kisii County. (**Final year project, 2020**).
9. Oluoch Wilfred Odongo (**J36/85819/2017**), BSc, Leather Science, University of Nairobi. Determination of factors affecting quality of locally produced shoes: a case study of Kariokor, Kenya. (**Final year project, 2021**).

### **Global Coordination of projects**

1. I am the **Country coordinator (Kenya)**, One Health Ethics and Regulatory Procedures project (**OHEARP**)
2. I am the **Country Liason Officer (Kenya)**, Global One Health Initiative (**GOHi**).

### **Awards and scholarships:**

1. Awarded a **Fuld Institute training scholarship**, amounting: **\$595** by Helene Fuld Health Trust National Institute for Evidence-Based Practice in Nursing and Healthcare, The Ohio State

University, to cover registration fees for Systematic Review Workshop to be held on **November 8 and 10, 2021.**

2. Awarded a **Grant of \$110,000.00** by Fogarty International Center (**FIC**) of the National Institute of Health (**NIH**), as a **Co-investigator** for the research project titled, “One Health Ethics and Regulatory Procedures (**OHEARP**) project, during **2020/2021. Award Number: 3D43TW008650-08S1. Role: Co-Investigator/Country OHEARP Co-ordinator.**

3. Awarded Global awards **grant/scholarship of \$ 275 (Covering Registration)** by the Keystone Symposia to attend and participate in the virtual live Keystone Symposia eSymposia meeting, eSymposia | COVID-19: One Year Later | EK32, from **February 8-9, 2021.**

4. Awarded Global awards **grant/scholarship of \$ 275 (Covering Registration)** by the Keystone Symposia to attend and participate in the virtual live Keystone Symposia eSymposia meeting, eSymposia | Diabetes; Many faces of the disease (EK 18) Jointly with; Obesity: From cell to patient (EK 17), from February **1-3, 2021.**

5. Awarded Global awards **grant/scholarship of \$ 275 (Covering Registration)** by the Keystone Symposia to attend and participate in the virtual live Keystone Symposia eSymposia meeting, eSymposia | Antibodies and Vaccines as Drugs for COVID-19 from **January 13-14, 2021.**

6. Awarded Global awards **grant/scholarship of \$ 275 (Covering Registration)** by the Keystone Symposia to attend and participate in the virtual live Keystone Symposia eSymposia meeting, eSymposia | Tuberculosis: Science Aimed at Ending the Epidemic from **December 2-4, 2020.**

7. Awarded a **Grant of \$1250** by American Society for Microbiology (**ASM**) for the project titled, “Workshop on Laboratory Biosafety and Culture Techniques” and (ii) “Organization of a Do It Yourself (**DIY**) Outbreak Exhibit” **sub-award Number: YAPF 2019, during 2019/2020.**

8. Awarded a **Grant of \$30,000.00** by **Bill and Melinda Gates foundation (BMGF)**, for the research project titled, “Bioassay guided fractionation, isolation and structural identification of antimycobacterial compounds from *Solanum torvum* Swartz (Solanaceae), **sub-award Number: 002, during 2019/2020.**

9. Awarded partial travel grant (**Covering Registration; Travel stipend (\$600) and Accommodation**) by the American Society for Microbiology (**ASM**) to attend Young Ambassador Retreat and ASM Microbe 2019 meeting, taking place at San Francisco, **USA, from June 20<sup>th</sup> – June 24<sup>th</sup>, 2019.**

10. Awarded a full travel grant (**Covering training fee, travel by road, accommodation and subsistence**) by British Council to attend and participate in 2019 British Council Researcher Connect Training Workshop (Professional Development Workshop for Research Scientists) during **06<sup>th</sup> - 08<sup>th</sup> February 2019 at Radisson Blu Hotel, Nairobi.**

11. Awarded a full travel grant (**Covering Registration; Visa application; Return airfare and Accommodation**) by Bill and Melinda Gates Foundation (**BMGF**) to attend and participate in 2018 Grand Challenges Sentinel Workshop during **04-7<sup>th</sup> December 2018 at Drug Discovery and**

**Development Centre (H3D), University of Cape Town, South Africa.**

12. Awarded a full travel grant (**Covering Registration; Visa application; Return airfare and Accommodation**) by Bill and Melinda Gates Foundation (BMGF) to attend and participate in 2018 Grand Challenges Annual Meeting during **15-18<sup>th</sup> October 2018 at Estrel Congress Center, Berlin, Germany.**

13. Awarded a full travel grant (**Covering Registration; Visa application; Return airfare and Accommodation**) by Bill and Melinda Gates Foundation (BMGF) to attend and participate in 10<sup>th</sup> World Health Summit during **14-16<sup>th</sup> October 2018 at the Kosmos, Karl Marx Allee 131a/10243 Berlin, Germany.**

14. Awarded a full travel grant (**Covering Registration; Visa application; Return airfare and Accommodation**) by Bill and Melinda Gates Foundation (BMGF) to attend and participate in Keystone Symposia Conference on, “ 21<sup>st</sup> Century Drug Discovery and Development for Global Health during **17-20<sup>th</sup> October 2018 at the Hotel Palace, Berlin, Germany.**

15. Awarded partial travel grant (**Covering Registration; Travel stipend (\$600) and Accommodation**) by the American Society for Microbiology (ASM) to attend Young Ambassador Retreat and ASM Microbe 2017 meeting, taking place at the New Orleans Morial Convention Center, located at 900 Convention Center Blvd, **New Orleans, Louisiana, USA, from June 1 – June 5, 2017.**

16. Awarded a full travel grant (**Covering Registration; Visa application; Return airfare and Accommodation**) by the Asian African Society for Mycobacteriology (AASM) to present an oral presentation at the 2<sup>nd</sup> Asian African Congress for Mycobacteriology (2<sup>nd</sup> AASM-2017) during **February, 25-28, 2017 at Abbasi hotel, Isfahan, Iran.**

17. Awarded a full travel grant (**Covering Registration; Visa application; Return airfare and Accommodation**) by the Robert Bosch Foundation, Academy of Sciences of South Africa (ASSAF) and the German Academy of Sciences Leopoldina to participate as a speaker in the symposium on “**New Research Perspectives on Infectious Diseases in Africa and Germany**” from **24 to 26 October 2016 at the Max Plank Institute for Infection Biology (MPI-IB) in Berlin, Germany.**

18. Awarded a travel grant of: **\$5,104** by Carnegie Fund for Conference Attendance (CFCA) under Competitive Fund for Regional Initiative for Science and Education (RISE) Graduates on **December, 2015, to present a paper In: Drug Discovery & Therapy World Congress 2016 (DDTWC-2016), at John B. Hynes Veterans Memorial Convention Center, Boston, USA, during August 22<sup>nd</sup> – 25<sup>th</sup>, 2016.**

19. Awarded a full travel grant (**Covering Registration; Visa application; Return airfare and Accommodation**) by the Asian African Society for Mycobacteriology (AASM) to present an invited lecture at the 1<sup>st</sup> Asian African Congress for Mycobacteriology (1<sup>st</sup> AACM-2015) during **March, 7-13, 2015 at the Isfahan International Conference Centre, Isfahan, Iran.**

20. Awarded a Grant of: **\$1,970** by Science Initiative Group (SIG) under Competitive Fund for Regional Initiative for Science and Education (RISE) Graduates on **September 16, 2014.** Project:

Student mentorship.

21. Awarded a post-doctoral fellowship by **Bill and Melinda Gates Foundation** to conduct research on drug discovery against *tuberculosis* from plant biodiversity at **Noguchi Memorial institute for Medical Research (NMIMR)**, College of Health Sciences, University of Ghana from **April 2014-30/09/ 2016**

22. Awarded **ICGEB/UNU-Biolac, Wellcome Trust and VPH Biotech Global Consortium grant (Covering Registration; Return airfare and Accommodation)** to attend to the course, “Molecular Epidemiology and Applications in Foodborne, Nosocomial and Vector-borne Infectious Diseases of Global Significance” and ICOPHAI 2013 congress during **August, 11-17, 2013 at Summerville Resort Hotel, Porto De Galinhas, Brazil.**

23. Awarded **Deans Committee Research Grant-2013-2014 of Kshs. 250,000** for research entitled, “Evaluation of Brine Shrimp Lethality and Antifungal Activity of *Zanthoxylum Chalybeum* Engl. Species”

24. Awarded **Deans Committee Research Grant-2012-2013 of Kshs. 250,000** for research entitled, “Evaluation of Brine Shrimp Lethality and Antifungal Activity of *Zanthoxylum Chalybeum* Engl. Species”

25. Post-Doctoral Research Fellowship awarded by the **Carnegie Corporation of Newyork through Regional Initiative in Science and Education-African Natural Products Network (RISE-AFNNET)** to do my Post-doctoral studies in Natural Products. This scholarship was awarded on December, 2012.

26. Awarded a travel grant (**of \$ 1000 USD**) by the US Department of Agriculture, Animal and Plant Health Inspection Services (APHIS) and Batelle Endowment for Technology and Human Affairs (BETHA) to present an oral talk at: The First International Congress on Pathogens at the **Human-Animal Interface (ICOPHAI) in Addia Ababa, Ethiopia, from 14<sup>th</sup> to 18<sup>th</sup> September 2011.**

27. PhD Fellowship awarded by the Carnegie Corporation of Newyork through Regional Initiative in Science and Education(**Carnegie-AIS-RISE**) natural product network to do my PhD studies in Natural Products. **This scholarship was awarded on February, 2009.**

28. Grant by **CEVA SANTE ANIMALE (FRANCE)** to carry out a project on trace mineral bioavailability in small ruminants: This project led to the inclusion of cobalt, copper and zinc in the commonly used anthelmintic dewormers in those areas where trace element deficiencies were found.

29. Grant by **CEVA SANTE ANIMALE (FRANCE)** to do my master of science project/research: This project generated data that contributed to the better understanding of the trace element status in pasture grasses in various regions in Kenya. It also enabled the sponsor to disburse more funds for the second phase of the project which examined the bioavailability status of trace elements in biological tissues.

30. **Higher Education Loans Board Scholarship (HELB)** in collaboration with the University of Nairobi to study for a master of science degree (MSc): This scholarship led to the acquisition

of my Master of Science degree in pharmacology and toxicology on **the 7<sup>th</sup> day of September, 2007.**

31. Government of Kenya Scholarship to study for my **Bachelors degree in Veterinary Medicine (BVM):** This scholarship culminated in the award of my bachelors degree in veterinary medicine on the **27<sup>th</sup> day of November, 2000.**

#### **Departmental committee membership:**

1. Member, Departmental Management Committee

##### ***Terms of reference:***

- (i).** Coordination of departmental performance contracting activities
- (ii).** Resolution of public complaints

2. Member, Departmental Quality Assurance Committee

#### **Faculty committee membership:**

1. Member, Faculty of Veterinary Medicine (FVM) Exhibitions and Show Committee **(2010-2014).**
2. Member, Faculty of Veterinary Medicine Curriculum Committee **(05.11.2021 to-date).**
3. Member, Faculty of Veterinary Medicine Biosecurity at Kanyariri Veterinary Farm Committee **(2018)**
4. Member, Faculty of Veterinary Medicine Biosafety, Animal Care and Use Committee **(FVM- BACUC): 2018 to-date**
5. Member, Adhoc Faculty of Veterinary Medicine Committee on Online Teaching, Learning and Examinations (FVM- COTL& E) **(2020)**
6. Member, Faculty of Veterinary Medicine Gender Mainstreaming Committee **(20.12.2021 to-date).**

#### **Professional assignments**

##### **(a). Peer review**

1. **Denis Okello, Youngmin Kang, June, 2019.** “Exploring antimalarial herbal plants across communities in Uganda”. A review article Submitted to, “ **Evidence Based Complementary and Alternative Medicine**”.
2. **Wiwied Ekasari, Dwi Widya Pratiwi, Zelmira Amanda, Suciati, Aty Widyawaruyanti and Heny Arwati, August, 2019.** “Various Parts of *Helianthus Annuus* Plants as a New Source of Antimalarial Drugs”, An original article submitted to, “ **Evidence-Based Complementary and Alternative Medicine**”.
3. **Manuscript jcim-2019-0183, August 2019,** entitled "*In Vivo* toxicity evaluation of Aqueous extracts of *Carpobrotus edulis* in Sprague Dawley rats" for “**Journal of Complementary and Integrative Medicine**”

### **(b). International Grant Review**

1. Appointed Early Career Reviewer (ECR), Centre for Scientific Review (CSR), National Institute of Health (NIH), Bethesda, USA, 2017, eRA Commons ID: JMNGUTA.

2. Future Leaders – African Independent Research (*FLAIR*) Fellowships, 2018

### **(c). Editorial board membership**

1. International Journal of Mycobacteriology (**IJMYCO**)
2. Journal of Pharmaceutical Research and Therapeutics (**JPRT**)

### **(d). Reviewer in the following pub-med indexed journals:**

1. Journal of Infection in Developing Countries (JIDC)
2. Mountain Research and Development Journal (MRD)
3. Indian Journal of Pharmacology (IJP)
4. International Journal of Biodiversity and Conservation (IJBC)
5. OMICS Publishing Group
6. Toxicological & Environmental Chemistry
7. Indian Journal of Medical Research
8. Evidence Based Complementary and Alternative Medicine

### **National Scientific Academy Membership**

1. Member, Kenya National Academy of Sciences (**MKNAS**): **MKNAS-217**.

### **National affiliations:**

1. Member, Kenya National Academy of Sciences (**MKNAS**), **MKNAS-217**.
1. Registered member, Kenya Veterinary Board (KVB), Reg.No: **002066**.
2. Registered member, Kenya Veterinary Association (KVA). Reg. No: **1056**.

### **International affiliations:**

1. Member Asian-African Society of Mycobacteriology (AASM).
2. Member, American Society for Microbiology-Global Outreach Category (ASM): **Member number: 100026300**

### **Notable achievements/Honours**

1. Ranked position 3 in the Faculty of Veterinary Medicine in the Academic year 2020/2021, thus receiving Vice chancellors recognition and prize due to exemplary performance.
2. Appointed American Society for Microbiology (ASM) Country Ambassador for Science to Kenya, 2022-todate.

3.Appointed American Society for Microbiology (ASM) Young Ambasssador for Science to Kenya, 2017, (<http://www.asm.org/index.php/this-week-in-international>)

4. Early Career Reviewer (ECR), Appointed by the Centre for Scientic Review (CSR), National Institute of Health (NIH), Bethseda, USA

5.Member, Kenya National Academy of Sciences (MKNAS), MKNAS-217.

**Referees:**

1. Dr. Boniface M Kavoi,  
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2. Prof. Peter Karuri Gathumbi,  
Associate Professor (Veterinary Pathology)  
Department of Veterinary Pathology, Parasitology and Microbiology,  
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