

CURRICULUM VITAE

NAME **Dr. John Kaunga Muthee**
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ACADEMIC AND PROFESSIONAL QUALIFICATIONS

PhD in Clinical Studies (University of Nairobi): "Ethnopharmacology, Bioactivity and Anthelmintic Efficacy of Medicinal Plants used in Loitokitok District, Kenya"- August 2014

Master of Science in Clinical Studies (University of Nairobi): "Acute and subacute toxicity of Nicandra Physaloides (L) Gaertn in Mice and Calves" - 2009

Bachelor of Veterinary Medicine (University of Nairobi) -1989

Diploma in Dairy farm Management (PTC, Netherlands) - 2004

WORK EXPERIENCE AND RESPONSIBILITIES

- Senior Lecturer in Medicine, Department of Clinical Studies since October 2018
- Teaching clinical and herd medicine for the last 30 years
- Teaching and supervising postgraduate students
- Head of Medicine Section from July 2015 to August 2016
- Farm Manager at the University Veterinary farm (seconded: 1999 – 2005)
- Head of Ambulatory and Herd health services in the department of Clinical studies (2006 to 2015)
- Consulting herd veterinarian for several large dairy farms
- Vast experience working with livestock farmers in Kenya
- A member of the veterinary emergency response unit (VERU) – participates field responses and trains students on animal welfare and disaster management
- Represented the department of Clinical studies in the faculty and college show and exhibition committees (2007 to 2016)
- Member of joint FVM/KVA Golden Jubilee celebrations and scientific conference in 2012
- Acted as chair of the department on several occasions
- SMU Manager and Warden in the college March 2016 to April 2018
- Member of the faculty postgraduate committee at Wangari Maathai Institute for Peace and Environmental Studies since July 2016
- Member of the college Alcohol and Drug Abuse and HIV Aids Committee since September 2016
- Member of the college Mentorship committee since April 2017
- Attends college management board meetings
- Chairs hall student disciplinary committees
- Attends senate student disciplinary committees
- Staff appraisal rating mostly exceeds expectation
- Appointed returning officer for UON student elections on 5 different years including 2020
- Appointed to coordinate Animal welfare and disaster management course July 2018
- Appointed head of Veterinary teaching and referral hospital on August 8th 2018

POSTGRADUATE SUPERVISION

- Moses Okoth Olum, M. Vet. Med. 2015: Seroconversion Risk Against *Theileria parva* Following Exposure and Treatment on a Conservancy in Laikipia County, Kenya – COMPLETED
- Wilkister Nakami Nbulindo, M. Vet. Therio. 2016: Blood Progesterone Determination by Lateral Flow Immunoassay for Assessment of Reproductive Status of Dairy Cattle in Kenya - COMPLETED
- Alex Dunbar, MSc. Environ. Govern. 2017: An Investigation into the Sustainable Utilization of the Artisanal Fisheries in Liberia – A case study of West Point – COMPLETED
- Kenneth Kivisi Mbali, PhD Environ. Govern & Mgt: Strategies for Upscaling Production and Management of Biogas in Kiambu County, Kenya – COMPLETED
- Grace Ndinda Kula, MSc. Environ. Govern: Influence of governance and regulatory instruments in promoting food security within Nairobi metropolitan region: The case of peri-urban agriculture in Machakos County COMPLETED
- Susan Wambui Mugo, MSc. Environ. Govern: Assessing Solid Waste Management at Wakulima Market in Nairobi County – COMPLETED
- Damina Mohammed Sadiq, PhD Clinical. Studies: Molecular Epidemiology and Antimicrobial Resistance of Bovine Tuberculosis in Nairobi and its Environs – FULLY REGISTERED in 2016 BUT DEFERRED.
- Emily Mutanu Kilonzi, MSc. Environ. Govern: Analysis of governance instruments for the disposal of chemical waste in smallholder dairy farms in Kabete Subcounty, Kiambu County – FULLY REGISTERED AND ABOUT TO SUBMIT
- Kiraithe Ndei Micheni, Ph.D Environ. Govern & Mgt: Governance and Sustainable use of Medicinal Biodiversity in Kenya – FULLY REGISTERED in 2018 AND ONGOING.
- Willy Kibet Chebii, PhD Environ. Govern & Mgt: Traditional medicine, Governance and management of Herbal Remedies in selected markets of Kenya – FULLY REGISTERED in 2018 AND ONGOING.
- Anne Ndeke, PhD in Clinical Studies: Atifertility Effects of Acetaminophen in female mice. FULLY REGISTERED in 2019 AND ONGOING

POSTGRADUATE BOARDS OF EXAMINERS

- Internal examiner for a PhD Thesis by Musau Joseph Kisivo 2016: Bioprospecting and development of a biopesticide for use against mosquitoes from selected plants in Msambweni District, Kenya
- Internal examiner for an Msc Thesis by Kiraithe Micheni Ndei 2015: Pharmacological and Toxicological effects of selected antimalarial plants from Msambweni District, Kenya
- Internal examiner for an MSc Thesis by Muthuma Evans Ngunjiri 2015: Assessment of Antimicrobial usage in broiler farms and analysis of sulphonamide residues in broiler meat from Njiru and Kasarani sub counties, Nairobi
- Internal examiner for an Msc Thesis by Abdi Hussein Hadun 2017: Phytochemistry, antiviral potential and toxic effects of *Dichrocephala integrifolia* Kuntze
- Board member in the examination of sixteen (16) MSc and six (6) PhD theses in the faculty of Veterinary Medicine and WMI on various dates from 2015 to 2018

PUBLICATIONS

- Micheni N.K, **Muthee J.K**, Mathiu P.M and Muthama N.T (2019). Bio-prospecting of Medicinal Bio-resources from the Kenyan Biodiversity: Reflections on Governance as the Missing Link - A Review Article
- **J.K Muthee** (2018). Anthelmintic efficacy and safety of selected medicinal plants against mixed gastrointestinal nematodes in artificially infected sheep. *Journal of Phytopharmacology* volume **7(4)**: 360-365.
- Mbali, Kenneth Kivisi, Mutembei Henry M'Ikiugu and **Muthee John Kaunga** (2018). Governance Aspects on Adoption of Biogas Technology in Kiambu County, Kenya. *International Journal of Innovative Research and Knowledge* **3**:81-86
- Mbali, Kenneth Kivisi, Mutembei, Henry M'Ikiugu and **Muthee John Kaunga** (2018). Benefits of adopting biogas technology in Kiambu County, Kenya. *International Journal of Innovative Research and Knowledge* **3**:87-92
- Kavisi Kenneth Mbali, Mutembei M'Ikiugu and **Kaunga John Muthee** (2018). Demographic factors that affect adoption of biogas technology in Kiambu County, Kenya. *International Journal of Innovative Research and Knowledge* **3**:48-57.
- **J.K Muthee** (2018). Anthelmintic efficacy of selected medicinal plants against gastrointestinal nematodes in naturally infected sheep in Kenya. *Journal of Phytopharmacology* **7(2)**:111-115.
- Nakami WN, Tsuma VT, Milkey K, Dickerson M, Wong M, Mutembei HM, **Muthee JK**, Odipo O and Ngetich W (2017). Lateral Flow Immunoassay for Whole Blood Progesterone Detection for Assessment of Reproductive Status in Cattle. *International Journal of Veterinary Science* **6**:19-25
- **J.K Muthee**, D.W Gakuya, J.M Mbaria, C.M Mulei (2016). Phytochemical screening and cytotoxicity of plants used as anthelmintics in Loitokitok sub-county, Kenya. *Journal of Phytopharmacology* **5**:15-19
- D.W Gakuya, S.M Itonga, J.M Mbaria, **J.K Muthee** and J.K Musau (2013). Ethnobotanical survey of biopesticides and other medicinal plants traditionally used in Meru-Central district of Kenya. *Journal of Ethno pharmacology* **145**: 547-553
- **J.K Muthee**, D.W Gakuya, J.M Mbaria, P.G Kareru, C.M Mulei and F.K Njonge (2011). Ethnobotanical Study of Anthelmintic and Other Medicinal Plants Traditionally used in Loitokitok District of Kenya. *Journal of Ethno pharmacology* **135**:15–21
- **J.K Muthee**, J.M Mbaria, A.G Thaiyah, D.N Karanja and D.W Gakuya (2011). Clinical, Haematological, Biochemical and Pathological Manifestations of Sub-acute Toxicity of *Nicandra physaloides* (L) Gaertn in Calves. *Bulletin of Animal Health and Production in Africa* **59**: 17-24
- **J.K Muthee**, J.M Mbaria, A.G Thaiyah and D.W Gakuya (2009). Acute Toxicity Study of *Nicandra physaloides* (L) Gaertn in Mice and Cattle. *The Kenya Veterinarian* **33**: 1-6
- **J.K Muthee**, D.W Gakuya and J. Nduhiu (2005). Preliminary investigations on the status of Bovine Mastitis in a medium scale dairy farm in Kabete area, Kenya. *The Kenya Veterinarian* **29**: 57-59
- A.K. Maina, **J.K Muthee** and V.T Tsuma (1991). An outbreak of progressive cataracts of an undetermined cause in a herd of dairy cows. *The Indian Journal of Animal Sciences* vol. **61** no. 11
- Contributor to "Ethnoveterinary Medicine in Kenya" A field manual of traditional animal health care practices, published by the Intermediate Technologies Development Group (ITDG) and the International Institute for Rural Reconstruction (IIRR) 1996, Nairobi, Kenya. ISBN 9966-9606-2-7

MANUSCRIPT UNDER PREPARATION

- A Research Methods' ODeL teaching module for postgraduates in WMI

GRANTS AND ACCREDITATIONS

- Awarded the Science, Technology and Innovation Competitive Grant (NCST/5/003/2nd CALL PhD/83) 2011.
- Accredited as a researcher in 2012, by the Pest Control Products Board, to carry out trials on evaluation of ecto-parasites in dogs and cats PCPB/112/Eval/Vol. 1/12/SAC/003
- Field Efficacy Trials on Fipronil (10%) for Norbrook E.A LTD in 2014
- Field Efficacy Trials on Advantix for Bayer E.A LTD in 2016

CONFERENCE PAPERS

- **J.K Muthee.** Integrated approaches to clinical and herd health management in food-producing animals: A Review. Presented at the 52nd Annual Scientific Conference and 18th World Veterinary Day Celebrations at Green Hills Hotel, Nyeri county 25 – 27th April, 2018
- **J.K Muthee, D.W Gakuya, J.M Mbaria, and C.M Mulei:** Anthelmintic efficacy of selected medicinal plants against mixed gastrointestinal nematodes in naturally infected sheep in Loitoktok, Kenya. Presented at the 50th Annual Scientific Conference and 16th World Veterinary Day Celebrations at three steers Hotel, Meru County held on 27th to 30th April 2016
- **J.K Muthee:** Approach to clinical cases. Presented to a one day continuous professional development workshop in Kiambu town on 24th July 2015
- **J.K Muthee, D.W Gakuya, J.M Mbaria, C.M Mulei:** Phytochemistry and cytotoxicity of plants used as anthelmintics in Loitoktok Sub-county, Kenya. Presented at the 49th Annual Scientific Conference and 15th World Veterinary Day Celebrations at Hotel Itoya, Busia County held on 22nd to 25th April 2015
- **J.K Muthee, D.W Gakuya, J.M Mbaria, C.M Mulei:** Evaluation of anthelmintic efficacy of selected medicinal plants used in Loitoktok, Kenya” at the Faculty of Veterinary Medicine 9th Biennial Scientific Conference and Exhibition held at Kabete Campus 3rd to 5th September 2014
- Gakuya D.W, Okoth M.O, Muraya J, Nganga C.J, **Muthee J.K:** An outbreak of acute helminthosis in a sheep and goat farm in Machakos County at the Faculty of Veterinary Medicine 9th Biennial Scientific Conference and Exhibition held at Kabete Campus 3rd to 5th September 2014
- **J.K Muthee, D.W Gakuya, J.M Mbaria, P.G Kareru, C.M Mulei and Njonge F.K:** Ethnobotanical Study of Anthelmintic and Other Medicinal Plants Traditionally used in Loitoktok District of Kenya. Presented at the 1st International One Health Conference at the Hilton Hotel, Addis Ababa, Ethiopia 23-26 September 2013
- **J.K Muthee:** The scope of Veterinary Ethnobiological Research. A poster presentation at the Faculty of Veterinary Medicine 8th Biennial Scientific Conference and Exhibition held at Kabete on April 25-28 2012.
- J. Ombura, **J.K. Muthee, J. Amimo, J. Audho, W. Ratemo, M. Mwazonga, A.M. Okeyo:** Re-Emerging Diseases: A case of Suspected Uitepeuloog in Sheep at Kapiti Ranch in Kenya. Presented at the 44th Kenya veterinary association annual scientific conference held at Garrissa from 20th to 24th April 2010
- Daniel W. Gakuya, Mulei, C.M, Wekesa, S.B, **J.K Muthee:** An outbreak of foot and mouth disease in a commercial livestock farm and the implications to its control in Kenya. Presented at the 44th Kenya veterinary association’s annual scientific conference held at Garrissa from 20th to 24th April 2010
- R.M. Bundi, Gakuya D.W, Kipyego A.N, and **J.K Muthee:** An outbreak of sheep and goat pox disease in a farm in Kiambu west District, Kenya. Presented at the Faculty of Veterinary Medicine 7th Biennial Scientific Conference and Exhibition held at Kabete Campus 8th to 10th September 2010

- **J.K Muthee, J.M Mbaria, A.G Thaiyah:** Acute and subacute toxicity of *Nicandra physaloides* (L) Gaertn in mice and calves” in the Faculty of Veterinary Medicine 6th Biennial Scientific Conference and Exhibition held at Kabete campus in September 17th to 19th 2008
- **J.K Muthee, D.W Gakuya and J. Nduhiu:** Preliminary investigations on the status of Bovine mastitis in a medium Scale dairy farm in Kabete area of Kenya presented in the Faculty of Veterinary Medicine 4th Biennial Scientific Conference and Exhibition held at Kabete Campus from 3rd to 5th November 2004

SHORT COURSES AND SEMINARS

- Attended KVA Nairobi branch Annual Scientific Conference at ILRI in February 2020
- Attended and Successfully completed a PhD Supervision Training of Trainers held on February 15-17, 2016 at the CCU University of Nairobi
- Attended and Successfully completed a Lecturer Didactic Training workshop held on September 24-25, 2015 at the CSD Seminar Room, University of Nairobi
- Attended and Successfully completed a professional course in Research and Grant Proposal writing at the Chiromo Conference Centre, Chiromo Campus held on 2nd to 6th March 2015
- Successfully conducted a stakeholders’ dissemination workshop for my PhD research findings in Lotoktok on 9th to 11th September 2014
- Participated in the delivery of a short international (Kenya, Tanzania and Finland) herd health course held at the Faculty of Veterinary Medicine 3rd -10th June 2014
- Participated in the KAWAN’s Animal Welfare Workshop held at the Kabete campus on 5th April 2013
- Participated in Kenya Veterinary Association 2013 annual Scientific Conference in Whitesands Beach Hotel 24th-28th April 2013
- Participated the joint Faculty of Veterinary 8th Biennial Scientific Conference and 46th Kenya Veterinary Association Annual Scientific Conference and Exhibition held at the Safari Park Hotel, Nairobi, from 25th to 27th April 2012
- Participated as a team member of Veterinary emergency Response Unit (VERU) in the Tana Delta 4th -8th September 2012 after the tribal clashes
- Attended a training course on The Livestock Emergency Guidelines and Standards (LEGS) held at the Faculty of Vet Medicine 7th-9th November 2012
- Participated in a PhD Supervision training workshop held at Clinical studies 23rd-25th March 2011
- Participated in a workshop on Forensic Veterinary Science held at the dept of Pathology, Microbiology and Parasitology on 18th May 2011
- Participated in a WSPA-UON Animal Disaster Management and Risk Reduction Training of trainers workshop held at the Kenya Wildlife Service Training Institute, Naivasha 6th-12th 2011
- Participated in an intellectual property workshop for researchers in R&D Institutions held at Lukenya Getaway hotel in Machakos from 24th to 27th February 2010
- Participated in a symposium on research and commercialization of natural products organized by the Global institute for bio-exploration (GIBEX) in conjunction with the school of pharmacy at the olive gardens hotel on 15th march 2010
- Participated in a WSPA-UON Animal Disaster Management and Risk Reduction Consultative Workshop held at Clinical Studies on 19th to 20th August 2010
- Participated in a Workshop to Promote Good Animal Welfare in Kenya held at the Agricultural Information Resource Centre on 28th to 29th October 2010

- Attended and actively participated in the performance enhancement strategies course held at the central catering unit on 31st January 2009
- Participated in a stakeholders' Workshop on curriculum development in natural products technology and value chain management held at KCB college in Karen from 7th to 8th December 2009
- Participated in the E-learning training held at the ICT centre in Chiromo from 14th to 18th December 2009
- Participated in a refresher course for the alumni of the PTC⁺ International Course on Dairy Husbandry and Milk Processing, organized by The Netherlands Fellowship Programme, in Kampala, Uganda from 12th to 23rd November 2007
- Participated in a training on Transformative Leadership and Results Based Management Held in Taifa hall on 25th October 2007
- Participated and made presentations in a workshop on Ethno Veterinary Medicine and practices in Kenya held at the Machakos Gardens hotel between 8th to 19th July 1996
- Participated in a training course on the Immunization against East Coast Fever held at the National Vet Research Centre, Muguga 24th to 26th January 1996

PROFESSIONAL BODIES

1. Registered (statutory) by the Kenya Veterinary Board as a Veterinary Surgeon.
2. Active Member of the Kenya Veterinary Association.

COMMUNITY SERVICE AND OTHER LEADERSHIP SKILLS

- Actively participates in community service and outreach programmes organized in and out of the university
- A trained and active member of the Veterinary Emergency Response Unit (VERU)
- Treasurer, Clinical Studies Welfare Group 2009 - 2015
- Chairman, FortSmith security committee since January 2012
- Secretary, Clinical Studies Welfare Group 2015 - 2017
- Treasurer, Faculty Club 2014 - 2015
- Chairman, Board of Management for KK Rwanjwee Secondary School in Meru since July 2015
- UASU Campus Rep since February 2016
- External examiner for the diploma and certificate courses offered by the AHITI and related institutions under the directorate of veterinary services, Ministry of Agriculture, Livestock and Fisheries since 2017

J.K Muthee

May, 2020