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# CURRICULUM VITAE (UPDATED)

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**PETER KARURI GATHUMBI (Ph.D, MSc, BVM, Dip Vet Path (FRCVS))**

**EMAIL:** [gathumbi@uonbi.ac.ke](mailto:gathumbi@uonbi.ac.ke), [pgathumbi@gmail.com](mailto:pgathumbi@gmail.com)



## **PROFESSIONAL SUMMARY**

Prof Peter K. Gathumbi is a Professor of Veterinary Pathology, University of Nairobi. He has extensively taught for many years at undergraduate and postgraduate levels. In 2012, he taught Pathology of food animal diseases in Sheikh Technical Veterinary Institute in Somaliland and Galowe Puntland. He was a visiting scholar at School of Veterinary Medicine University of Ghana in 2018. He has conducted extensive research in veterinary pathology and supervised many postgraduate students and severally served as internal and external examiner. He supports the Department in diagnostic services in veterinary pathology and he was the lead pathologist investigating the death of Rhino in Tsavo East National park in 2018. His special interest is in gross pathology, histopathology, immunohistology, ethnoveterinary medicine and conservation of medicinal plants. He established a botanical garden of medicinal plants at University field station Kabete. From 2010 to 2016, he chaired the Faculty Biennial Scientific Conference Committee that coordinated the 2010, 2012 and 2014 conferences. He was the Chairman of the Department of Veterinary Pathology, Microbiology and Parasitology from February 2010 to February 2016, As Chairman of Department, initiated review of academic programs, brought in new equipment, implemented renewal of facilities to support teaching and research, and led a cohesive highly motivated staff.

## **1. PERSONAL DETAILS**

**Date of Birth:** 3<sup>rd</sup> June 1956

**Marital status:** Married

**Nationality:** Kenyan

**Host Institution:** University of Nairobi

**Postal address:** Department of Veterinary Pathology Microbiology and Parasitology (VPMP), Faculty of Veterinary Medicine (FVM), College of Agriculture and Veterinary Sciences (CAVS), University of Nairobi (UON), P.O. Box 29053, 00625 Nairobi, Kenya.

**Physical address:** Upper Kabete Campus, (CAVS), Loresho Ridge (off Kapenguria Road), Nairobi.

Contact details:

Email: [gathumbi@uonbi.ac.ke](mailto:gathumbi@uonbi.ac.ke), [pgathumbi@gmail.com](mailto:pgathumbi@gmail.com)

Cell phone: +254722-641048

## **2. WORK EXPERIENCE**

I have worked in the positions shown below:

- 2.1. September 2016 – to date: Professor of Veterinary Pathology, Department of Veterinary Pathology, Microbiology and Parasitology, University of Nairobi, Kenya
- 2.2. March 2006 – September 2016: Associate Professor of Veterinary Pathology, Department of Veterinary Pathology, Microbiology and Parasitology, University of Nairobi, Kenya
- 2.3. 1996 – 2006: Senior Lecturer, Department of Veterinary Pathology, Microbiology and Parasitology, University of Nairobi, Kenya
- 2.4. 1988 - 1996: Lecturer Department of Veterinary Pathology, Microbiology and Parasitology, University of Nairobi Kenya
- 2.5. 1985 - 1988: Assistant Lecturer Department of Veterinary Pathology, University of Nairobi Kenya.
- 2.6. 1983 – 1985: Veterinary Officer Hygiene in Public Health Section, Ministry of Livestock Development, Kenya Meat Commission Athi River (18 months) and Halal Meat factory Ngong (9 months),.

## **UNIVERSITY TEACHING AND OTHER EXPERIENCE AND OUTREACH:**

I have taught in University of Nairobi for about 31 years. My field of specialization is veterinary pathology and related areas, which I teach at undergraduate and post graduate levels. I also conduct research and diagnostic services in different aspects of veterinary medicine. The following are my major areas of specialization and experience:

- 2.7. General pathology including mechanisms of disease and studies on systemic pathology of animal diseases.
- 2.8. Special interest in neuropathology, eye, and ear; and pathology of the hematopoietic and cardiopulmonary systems and inflammation.
- 2.9. Clinical pathology – hematology and clinical chemistry in domestic and wild animals including laboratory and companion animals and poultry. I have taught on different aspects of haematology, majoring on the Erythron of different species.
- 2.10. Special pathology of animal diseases including diseases of laboratory animals, all OIE listed and unlisted diseases, emerging and re-emerging and trans-boundary diseases
- 2.11. Diagnostic pathology –Necropsy, histopathology and immunohistology. One of the routine duties is to make diagnosis of disease outbreaks in animals by conducting post mortem and histopathological examination of diseased carcasses and biopsy samples and other complementary tests needed to confirm diagnosis of diseases and explain the cause of death. I take advantage of the diagnostic sessions to teach practical skills on disease diagnosis to veterinary undergraduate and postgraduate students.
- 2.12. Toxicological pathology: I have participated in several studies of toxicity testing of medicinal plant extracts by evaluating pathology, haematology and clinical chemistry parameters to determine toxic effects and target organs of toxicity.
- 2.13. Bio-safety and laboratory safety: I have given lectures in this field to postgraduate students in the Department
- 2.14. Laboratory animal science: I have taught this course on several occasions to postgraduate students in the Department
- 2.15. Efficacy and safety testing of plant extracts used in ethno-veterinary medicine for the treatment of East coast fever and trypanosomiasis: I gained experience in this field of research during the implementation of a Rockefeller Foundation grant (African Career Award) and Agriculture Research Fund (ARF) Grants respectively between 2001 and 2004 in collaboration with the International Livestock Research Institute (ILRI) and other partners. I extended this work further at ILRI as a recipient of IFAR small grant (fellowship) in 2004. In these projects, I worked on vitro culture methods to propagate *Theileria parva* and trypanosomes under different concentration of test extracts
- 2.16. Working with community groups: While implementing a research project funded by the Kenya Agricultural Productivity Project (KAPP) In 2009, I supported the conservation of medicinal plants through establishment of tree nurseries with the following communities groups: a) Karumandi Bee Keeping and Conservation Self Help Group at Kirinyaga East District, 2) Nyeri Traditional Herbalist Practitioners Association at Nyeri Town, 3) EBIT Medicinal plants Conservation Group at Jua Kari Kamagut, Eldoret. I also donated many medicinal plants to a few schools in Ngong Town

- 2.17. Botanical garden of medicinal plants: In April 9, 2009, I and other KAPP project collaborators established a botanical garden of medicinal plants at CAVS. In this project, we donated thousands of medicinal plant seedlings to CAVS tree planting days from the project nurseries.
- 2.18. Held a successful stakeholders workshop to give feedback on results achieved after successful implementation of research project titled, 'Assessment of efficacy of commonly used drugs in the control of coccidiosis and ectoparasitism of domestic rabbits in smallholder production systems in Kenya'- Funded by Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) - US\$ 59, 878 ( July 2015 – June 2017)
- 2.19. I was the lead pathologist investigating death of rhinos in Tsavo East National park in 2018

### **3. TEACHING AT OTHER INSTITUTIONS**

- 3.1. December 1 - 23, 2012: I taught a course on pathology of food animal diseases in Sheikh Technical Veterinary Institute in Somaliland and Galowe Puntland
- 3.2. I am a visiting scholar in University of Ghana School of Veterinary Medicine, where I have been teaching Systemic Pathology and Diagnostic clinics for a tenure of one year (August 1, 2018 to July 31, 2019)

### **4. MEMBERSHIP**

#### **4.1. Professional Membership**

- 4.1.1. Member of the Kenya Veterinary Association (No. KVA/0725)
- 4.1.2. Registered by the Kenya Veterinary Board (No. 941)
- 4.1.3. Passed the Accreditation Examination of the South African Veterinary Council in September 2006 and gained eligibility for registration by the South African Veterinary Council
- 4.1.4. Member of the University of Nairobi Alumni Association

#### **4.2. Other membership**

- 4.2.1. Member of Board of Governor Mukangu Secondary School Kirinyaga West District, Kirinyaga County Kenya
- 4.2.2. Member of the Church Council of the St Barnabas ACK Church Olepolos Ngong Town

## 5. AWARDS

- 5.1. Fellow of the Royal Veterinary College (FRVC Pathology), Uppsala Sweden
- 5.2. Certificate of merit, Third overall award of the Kenya Agricultural Research Institute, Agricultural Research Fund (ARF), in recognition of outstanding work on, ‘Evaluation of effects of plant extracts on trypanosomes’ (Principal investigator).
- 5.3. Veterinary Academia award of the Kenya Veterinary Association in April 2013

## 6. RESEARCH

### 6.1. Funded Projects

- 6.1.1. **Principal investigator** in a project entitled, ‘Assessment of efficacy of commonly used drugs in the control of coccidiosis and ectoparasitism of domestic rabbits in smallholder production systems in Kenya’- Funded by Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) - US\$ 59, 878 ( July 2015 – June 2017)
- 6.1.2. **Co-investigator** in a project entitled, ‘A multi stakeholder study to enhance the control of diseases that limit production and market access of livestock in Dryland sites of Marsabit Kenya’, funded by the UON Center for Sustainable Dryland Ecosystems and Societies (CSDES) - 8,000 US\$ (2013)
- 6.1.3. **Co-investigator** in a project entitled, ‘Rabbit Productivity Value Chain’, funded by the National Commission for Science Technology and Innovation (NACOSTI)- Kshs. 10,000,000.00- approximately 120,000 US\$ (2011- to date)
- 6.1.4. **Member of the Carnegie Regional Initiative in Science & Education for Africa Natural Products Training Network (RISE-AFNNET)** – funded to train MSc. and Ph.D students in Natural product research in UON, Sokoine University of Agriculture (SUA) and Makerere University (2009 -to date)
- 6.1.5. **Principal investigator** in a project entitled, ‘Evaluation and commercialization of medicinal plants extracts for improved livelihoods: A case study of ECF’, funded by KAPP project- GOK/World bank -110,000 US\$ ( 2007)
- 6.1.6. **Principal investigator** in a project entitled, ‘Further characterization of efficacy and safety of medicinal plant extracts used to treat East coast fever (*Theileria parva* infections) in cattle’ funded by IFAR 2004 small grant on professional development programme -10,000 US\$ (2004 to 2005)
- 6.1.7. **Principal investigator** in a project entitled, ‘The evaluation of efficacy and safety of medicinal plant extracts for activity on *Theileria parva*’, funded by Rockefeller Foundation ACA grant- 33,995 US\$ (2001-2004)

- 6.1.8. **Co-investigator** in a project entitled, ‘evaluation of extracts from selected medicinal plants in Kenya for anthelmintic activity’, funded by Rockefeller Foundation ACA grant - 33,000 US\$ (2000-2003)
- 6.1.9. **Principal investigator** in a project entitled, ‘Evaluation of medicinal plants for their trypanocidal effects and antihelminthic activities’, funded by Agricultural Research fund Kenya (ARF) - 40,000 US\$ ( 2001- 2004)
- 6.1.10. **Principal investigator** in a project entitled, ‘ Toxicity of *Prunus africana* in rats and goats’, funded by International Foundation For Science (IFS) (24, 000 US\$) and DAAD – Ph.D Scholarship - 40,000 US\$) (1989-1994)
- 6.1.11. **Principal investigator** in a project entitled, ‘Studies on the use of immunoperoxidase technique in diagnosis of some important animal diseases such as canine distemper and rinderpest and application of immunoperoxidase technique in research on animal diseases (SIDA / GOK) -MSc. Scholarship. 1986-1988
- 6.1.12. Study of myocardial lesions in Porcine Stress Syndrome - Project study during the SIDA International Pathology Course (SIPATH) course at SLU Sweden in 1986

## **6.2. Special skills acquired in research**

- 6.2.1. Veterinary histopathology, immunohistology and gross pathology
- 6.2.2. *In vitro* bioassay procedures for evaluation of efficacy and safety of plant extracts used for the treatment of East coast fever and trypanosomiasis
- 6.2.3. Conservation of medicinal plants. I and other collaborators, established a botanical garden of medicinal plants at the UON- CAVS in April 9, 2009 through the KAPP research project and since then, as a member of the environmental committee, we have expanded the botanical garden through annual tree planting events at CAVS in partnership with stakeholders
- 6.2.4. Supporting conservation of medicinal plants through establishment of a medicinal plant tree nursery (with over 8,000 seedlings of 31 different varieties) at the UON forest station at Ngong- through the KAPP project in 2009
- 6.2.5. Donated over 4,000 seedlings to University of Nairobi tree planting day at CAVS on 4/4/2009. Also donated medicinal plant seedlings to 10 schools in Ngong division Kajiado District
- 6.2.6. Worked with community groups in Nyeri, Kitale, Embu and Nyandarua Kenya on conservation of medicinal plants through the KAPP project. This project also supported three community groups with seed money to establish medicinal plant nurseries at Nyeri, Kirinyaga and Eldoret in 2009

## **6.3. Research Proposals**

- 6.3.1. Pre-proposal submitted to ASARECA entitled, ‘evaluation of medicinal plant extracts for cure of bovine theileriosis’, 30<sup>th</sup> June, 2005

- 6.3.2. Pre-proposal submitted to the Wellcome Trust entitled, 'characterization of ethno-therapeutic potential of medicinal plants for the cure of bovine East coast fever (ECF) and livestock trypanosomosis', 15<sup>th</sup> Jan, 2006
- 6.3.3. Application to IFAR small grant 2008 entitled, 'molecular and *in vivo* characterization of efficacy and safety of plant extracts showing *in vitro* activity against trypanosomes', 3<sup>rd</sup> March 2008
- 6.3.4. Concept note submitted to VicRes grant entitled, 'validation and value addition of medicinal plants for the cure or management of East coast fever will empower their conservation, domestication and commercialization', 5<sup>th</sup> March 2008
- 6.3.5. Full proposal to VicRes entitled, 'Bioactivity of medicinal plants used to treat East coast fever in the Lake Victoria Basin', April 18, 2008
- 6.3.6. Full proposal submitted to Dean's Committee UON grant entitled, 'Evaluation of toxicity of *Rapanea melanophloeos*, a high value medicinal plant in Kenya', February 2009
- 6.3.7. A proposal submitted to NACOSTI entitled, 'Sandalwood: Current Conservation Status and Its Economic Potential in Kenya', February 2009
- 6.3.8. A proposal submitted to Development Marketplace World bank (DMG2009) entitled, 'Enhanced medicinal plants and honey trade improves environmental conservation and livelihoods of Ogiek', March 2009
- 6.3.9. A proposal submitted to RUFORUM entitled, 'East coast fever: Current Status and its Socio-economic impacts in East Africa' - June 2009
- 6.3.10. A proposal submitted to NACOSTI entitled, 'Breaking the barriers between herbalists and modern Scientists: two-way learning of best practices in herbal medicine', December, 2009
- 6.3.11. A proposal submitted to RUFORUM entitled, 'Assessment of the efficacy of commonly used drugs in the control of coccidiosis and ectoparasitism of domestic rabbits in smallholder production systems in Kenya', February 12, 2015
- 6.3.12. A proposal submitted to IDRC entitled, 'Development of ASFV Vaccine to Improve Swine Production in Sub-Saharan Africa', September 12, 2016

## **7. CURRICULUM DEVELOPMENT**

**7.1.** In collaborations with colleagues in the University of Nairobi, we have developed the following MSc. Courses in the department:

### **7.1.1. Postgraduate programs**

- MSc. In Veterinary Pathology and Diagnostics
- MSc. In Veterinary Clinical Pathology
- MSc. In Fish Pathology
- MSc. In Applied Veterinary Parasitology
- MSc. In Applied Microbiology

**7.2.** In 2009, I was a member of the team that developed the curriculum for Master of Science In Natural Products and Bioprospecting – within the network for natural products in Africa funded by the Carnegie Foundation in 2009

### **7.3. Undergraduate programs**

7.3.1. In 2013, I coordinated the development of the University of Nairobi curriculum for Bachelor of Science in Biomedical Laboratory Technology to be implemented at the IGAD Sheikh Technical Veterinary Institute, Somaliland

7.3.2. I led the Department in the second review of courses offered in the Bachelor of Veterinary Medicine curriculum in 2014

## **8. PRODUCTS**

In collaboration with colleagues in the School of Pharmacy, University of Nairobi, we have formulated *Prunus Africana* into a suitable dosage form (PROSGEM capsules for treatment of benign prostatic hyperplasia (BPH).

## **9. MENTORSHIP**

### **9.1. Ph.D student supervised who have graduated**

9.1.1. Dr. Loice Njeri Kamau (Ph.D), Department of Veterinary Anatomy and Physiology, University of Nairobi. The study is on, ‘Study of extent of use efficacy and safety of selected antidiuretic herbal plants using white albino mice in Nyeri & Narok Counties’. - Graduated 2018

9.1.2. Dr. Dominic Ochwang’i (Ph.D), Department of Veterinary Anatomy and Physiology, University of Nairobi. The study is on, ‘Pharmaco-physiological anti-neoplastic potential of herbal remedies used in Kakamega County, Kenya’.- Graduated 2017



- 9.1.3. Dr. Irene Thiguku Kamanja (Ph.D), Department of Public Health, Pharmacology and Toxicology, University of Nairobi. Thesis is titled, 'Study of antimicrobial, phytochemical and toxicological properties of selected plants used in the management of sexually transmitted infections in Samburu County, Kenya'. Graduated 2014
- 9.1.4. Dr. Nyariki Thomas Manyibe (Ph.D), Department of Veterinary Pathology, Microbiology and Parasitology, University of Nairobi. Thesis title is, 'Investigation into the role of infectious Diseases in mass mortality of lesser flamingos in Kenya'. Graduated 2013
- 9.1.5. Dr. J.M. Nguta (Ph.D) Department of Veterinary Public Health Pharmacology and Toxicology, University of Nairobi. Thesis title is, 'Pharmacology, Toxicology and Phytochemical study of anti-malarial herbal remedies in Kenya'. Graduated 2011
- 9.1.6. J.D. Mande (Ph.D student), Clinical Studies Department, University of Nairobi. Thesis title is, 'Clinical and Pathological Features of Osteoarthritis of the Hip Joint of Adult German Shepherd Dogs in Kenya'. Graduated 2004

## **9.2. MSc students who have completed**

- 9.2.1. Dr. Jackson Muriungi Nchebere (MSc), Department of Veterinary Pathology Microbiology and Parasitology, University of Nairobi. Thesis study is on, 'Pathology and Haematological Changes and economic impact in goats feeding on *Opuntia stricta* and community perception of the plant in Laikipia county Kenya'. Graduated 2020
- 9.2.2. Dr. Joyce Chebet (MSc), Department of Veterinary Pathology Microbiology and Parasitology, University of Nairobi. Thesis study is on, 'Prevalence Pathology and efficacy of selected treatment regimes of rabbit mange in central Kenya'- Graduated 2020
- 9.2.3. Mary Wagu Mwangi (MSc.), Department of Veterinary Pathology Microbiology and Parasitology, University of Nairobi. Thesis title is, 'Application of IgM antibody assay and liver function tests in investigation of prevalence of measles and rubella in children below five years in Nairobi County Kenya- Graduated 2018
- 9.2.4. Dr. Kennedy Okoth Ogolla (MSc), Department of Veterinary Pathology Microbiology and Parasitology, University of Nairobi. Thesis title is, 'Efficacy and chemotherapeutic control of coccidiosis in rabbits under smallholder production systems in central Kenya'- Graduated 2018
- 9.2.5. Ajak T. Ayul Adeng (MSc.), Department of Veterinary Pathology Microbiology and Parasitology, University of Nairobi. Thesis title is, 'Status of antimicrobial resistance in bacteria isolated from Kenyan chickens' – Graduated 2017
- 9.2.6. Dr. Dhaval N Shah (MSc) Department of Veterinary Pathology Microbiology and Parasitology, University of Nairobi. Thesis title is, 'Histopathology and

- immunohistochemical study of cutaneous nodular and other surface swellings of Kenyan horses' (Graduated 2015)
- 9.2.7. Dr Paul Onyango Okumu, Department of Veterinary Pathology Microbiology and Parasitology, University of Nairobi. Thesis title is, 'Clinicopathologic survey and predisposing factors of diseases of domestic rabbits in selected areas in Kenya'. Graduated 2014
- 9.2.8. Dr Simon Migwi Maina, Department of Veterinary Pathology Microbiology and Parasitology, University of Nairobi. Thesis title is, 'Enhancement of Peste Des Petits Ruminants (PPR) diagnosis through analysis of experimental infection of sheep and goats and validation of real time polymerase chain reaction as a diagnostic tool in Kenya'. Graduated 2014
- 9.2.9. Dr James Menni Kuria, Department of Public Health, Pharmacology and Toxicology, University of Nairobi. Thesis title is, 'Efficacy of *Aspilia Pluriseta* (Asteraceae) Schweinf. in cutaneous wound healing (mouse model)'. Graduated 2014
- 9.2.10. Dr, Evalyn Mwihi, Department of Veterinary Pathology Microbiology and Parasitology, University of Nairobi. Thesis title is, 'Toxicity of *Albizia gummifera*, a plant commonly used to treat East coast fever in Kenya'. (Graduated 2013)
- 9.2.11. Dr Denis Kirubi Muthuma (MSc), Department of Pharmaceutical Chemistry, University of Nairobi. Thesis title is, 'Acute and sub-acute toxicity of dichloromethane – methanol extract of *Teclea trichocarpa* root-bark in rats'. Graduated 2013
- 9.2.12. Dr. Mulei Isaac Rumpel, Department of Veterinary Pathology, Microbiology and Parasitology, University of Nairobi. Thesis title is, 'The Effects of schistomiasis and malaria co-infection on the clinical and pathological outcome in experimentally infected Baboons (*Papio cynocephalus anibis*)'. Graduated 2012
- 9.2.13. Dr. Tsigadi Sharon Andeyo, Department of Clinical Studies, Faculty of Veterinary Medicine, University of Nairobi. Thesis title is, 'Clinical, radiographic and pathological Features of urinary conditions in dogs in Nairobi, Kenya'. Graduated 2012
- 9.2.14. Ms. Hungu Charity Warigia, Department of Veterinary Pathology, Microbiology and Parasitology, Faculty of Veterinary Medicine, University of Nairobi. Thesis title is, 'Production characteristics and constraints of rabbit farming in Central, Nairobi and Rift Valley provinces, Kenya'. Graduated 2011
- 9.2.15. Dr. Hesbon Zablon Amenia, Department of Public Health, Pharmacology and Toxicology, University of Nairobi. Thesis title is, 'Acute and sub-chronic toxicological studies on *Rapanea melanophloeos*, an important medicinal plant in Kenya and other parts of the world'. Graduated 2011
- 9.2.16. Jared Misonge Onyancha, Department of Pharmacology and Pharmacognosy, School of Pharmacy, University of Nairobi. Thesis title is, 'Phytochemistry and

Biological activity of giant St. John's Wort (*Hypericum keniense* Scheiwn F'.  
Graduated 2011

- 9.2.17. Herbert Waitindi Kibebe, Department of Veterinary Pathology, Microbiology and Parasitology, Faculty of Veterinary Medicine, University of Nairobi. Thesis title is, 'Point of care testing in human diabetic patients using glycated hemoglobin at Nyeri Provincial general hospital and monitoring of HbA1C in diabetics induced mice'. Graduated 2010
- 9.2.18. Dr. Daniel Chai Chivatsi, Department of Veterinary Pathology, Microbiology and Parasitology, University of Nairobi. Thesis title is, 'Effect of Rosiglitazone on the pathology of endometriosis in baboon'. Graduated 2010
- 9.2.19. Wahome Amy Wambui Chege, Department of Biochemistry and Biotechnology, School of pure and applied sciences, Kenyatta University. Thesis title is, 'Toxicity studies of some Kenyan plants with hypoglycaemic activity used in traditional medicine'. Graduated 2010
- 9.2.20. Kimani Peter Chege, Department of Biochemistry and Biotechnology, School of pure and applied sciences, Kenyatta University. Thesis title is, 'Evaluation of trypanocidal effect of herbal extracts from some Kenyan medicinal plants'. (Graduated 2008)
- 9.2.21. Nyariki Thomas .Manyibe, Department of Veterinary Pathology Microbiology and Parasitology University of Nairobi). Thesis title is, 'Study on pathology and antigen distribution in common Warthog (*poancochoerus africana*), cattle (*Bos indicus*) and African buffalo (*Syncerus caffer*) experimentally infected with African Lineages 1 and 2 strains of rinderpest virus' .Graduated 2007
- 9.2.22. Ngugi Mathew Piero, Department of Biochemistry and biotechnology, School of pure and applied Science, Kenyatta University. Thesis title is, 'Evaluation of hypoglycemic activity of some Kenyan plants traditionally used for the management of Diabetes mellitus'. Graduated 2006
- 9.2.23. Njagi Joan Murugi, Department of Biochemistry and Biotechnology, School of pure and applied sciences, Kenyatta University. Thesis title is, 'Hypoglycemic effects of some anti-diabetic plants used in traditional medicine in Kenya'. Graduated 2006

### **9.3. Ph.D students in progress**

- 9.3.1. Dr. Paul Onyango Okumu (Ph.D), Department of Veterinary Pathology Microbiology and Parasitology, University of Nairobi. The study is on, 'Role of probiotics on: growth performance, gut mucosal immunity and cephalosporin resistant bacteria population in rabbits' - ( February 14, 2018 –to date)

### **9.4. MSc students in progress: None**

### **9.5. Thesis Examined**

- 9.5.1. P.M. Kitala, PhD thesis, University of Nairobi entitled, 'Epidemiology of Rabies in Kenya', 25.8.99
- 9.5.2. Dr. P.M. Munyua's, MSc Thesis University of Nairobi entitled, 'Toxicological Assessment of a Tsetse fly repellent for smallholder indigenous communities of sub-Saharan Africa' (BPS letter dated 8/11/05, forwarding the thesis).
- 9.5.3. Dr. Nyariki T. Manyibe's, MSc thesis titled, 'The pathology in common Warthog (*Phacochoerus africanus*), Cattle ( *Bos indicus*) and African Buffalo (*Syncerus caffer*) experimentally infected with lineages I and II isolates of rinderpest virus'(BPS letter dated 24 April 2007)
- 9.5.4. Dr Bosire Menge MSc. Thesis University of Nairobi entitled, 'Amitraz A demographic survey of poisoning at Kenyatta National Hospital and a Toxicological study using laboratory animals virus' (BPS letter dated 24 April 2007)
- 9.5.5. Dr. Nguhiu–Mwangi, PhD thesis University of Nairobi entitled, 'Digital Characteristics of Laminitis and associated claw lesions in cattle in Nairobi and its environs under various smallholder management systems' (BPS letter dated 8 May 2007)
- 9.5.6. External examiner for Mr. Kirinyet Joel Kipkorir MSc thesis, Jomo Kenyatta University of Agriculture and Technology entitled, 'Falciparum Malaria and effect of HIV / AIDS on antimalarial treatment outcome in patients presenting with fever at Moi teaching and referral hospital (MTRH), Eldoret, Kenya' (JKUAT letter dated 28<sup>th</sup> March 2007)
- 9.5.7. Internal Examiner and supervised corrections for Dr. Lucy W. Njagi, PhD. Thesis entitled, 'Endemicity of Newcastle disease in Village indigenous chickens and role of carrier ducks' (BPS letter dated Sept 16, 2008)
- 9.5.8. Board member for Dr. Muthee J.K Thesis entitled, 'Toxicity of Nicandra Physaloides (L) Gaertn in mice and calves' (BPS letter dated 17 Nov. 2008).

- 9.5.9. External Examiner for Mr. Nderitu Leonard Maina, MSc. Thesis, Jomo Kenyatta University of Agriculture and Technology entitled, 'Molecular Epidemiology of Rift Valley Fever virus during the East African outbreak, 2006-2007' (JKUAT letter dated 27<sup>th</sup> March 2009)
- 9.5.10. Internal Examiner for Dr. Lucas Luvai Azaale Asaava, MSc. Thesis entitled, 'A survey of human taeniosis / bovine Cysticercosis in Northern Turkana District' ( BPS letter dated 25 Fe. 2009)
- 9.5.11. Board member for Dr. Koros Kipsengeret's Thesis entitled, 'Toxicological impact assessment of heavy metals in major incinerators in Nairobi, Kenya'(BPS letter dated 22 May 2009)
- 9.5.12. External examiner for Mr. Alfred Mutu Gitau's MSc thesis, Jomo Kenyatta University of Agriculture and Technology entitled, 'Mycological Infection among patients with diabetic foot ulcer attending diabetic clinic at Kenyatta national Hospital, Kenya' (BPS JKUAT letter dated 4<sup>th</sup> June 2010)
- 9.5.13. Board member for Dr. Catherine Kaluwa Kaingu MSc thesis entitled, 'Molecular An invitro study of *Ricinus communis* and *Euclea divinorum* extracts (plants commonly used by traditional birth attendants) on isolated rabbit uterus' (BPS letter dated 16/11/2010)
- 9.5.14. Board member for Dr. Mukolwe thesis entitled, 'Molecular characterization of Infection and treatment vaccine for East Coast fever' (BPS letter dated 16/11/2010)
- 9.5.15. External Examiner for Dr. Okuni PhD thesis from Department of Pathology, Makerere University (2012).
- 9.5.16. Internal Examiner for Dr. Ameyia H.Z MSc thesis titled, 'acute and sub-acute toxicological studies of *Rapanea melanophloeos* (L.) Mez. In laboratory rats' (BPS letter of June 29, 2011)
- 9.5.17. Internal Examiner for MS Charity Warigia Hungu MSc thesis titled, 'Farm Characteristics, management Practices, Production Constraints and Diseases of Domestic Rabbit (*Oryctolagus Ciniculus*) in Nairobi and its Environs' (BPS letter of July 18, 2011)
- 9.5.18. Board member for Examination of Dr S.M Itonga MSc thesis (BPS letter of September 26, 2012)
- 9.5.19. Internal Examiner for Dr. W. Mwihia MSc thesis titled, 'Toxicity testing of *Albizia gummifera*: a plant commonly used in ethnoveterinary treatment of East Coast fever in Kenya' (BPS letter of September 29, 2012)
- 9.5.20. Board member in examination of Dr. B. M. Kavoi Ph.D thesis, (BPS letter of September 26, 2012)
- 9.5.21. Internal examiner in the examination of Dr. Thomas Manyibe Nyariki Ph.D thesis titled, 'Investigation into the pathology and role of bacterial and endoparasitic diseases in mass mortality of lesser flamingos in Kenya' (BPS letter of April 20, 2013)

- 9.5.22. Internal examiner in the examination of Dr. Serem Jared Kibiwott MSc thesis titled, ‘ Characterization of rabbit production systems in Kenya’ (BPS letter of July 13,2013)
- 9.5.23. External Examiner for Mr. Ngeny Kipngetich MSc thesis of Kenyatta University titled, ‘Effects of Harrat on the Integrity of the liver and kidney in HIV patients of Coast province General Hospital, Kenya’ (KU letter of June 25, 2014)
- 9.5.24. Internal examiner of Dr. Moses Madadi Obimbo’s Ph.D thesis titled, ‘ Correlation of structure, estrogen receptor distribution in the uterine artery of domestic pigs (*Sus scrofa domesticus*)’ (BPS letter of September 30, 2013)
- 9.5.25. Board member in the examination of Dr. MS Claire Njoki Kimani MSc thesis entitled, ‘Efficacy, phytochemical, screening and identification of plants used in the management of Diabetes mellitus in Machakos, Kitui and Makueni Counties Kenya’ (BPS letter dated 26/10/2013)
- 9.5.26. Board member in the examination of Dr. John Muturi Kimani MSc thesis as per the BPS letter dated 7/11/2013
- 9.5.27. Board member in the examination of Dr. Felix Kibegwa Matura MSc thesis (BPS letter dated 21/3/2014)
- 9.5.28. Internal examiner in the examination of Dr. Paul Okumu Onyango MSc thesis titled, ‘Etiology and predisposing factors to domestic rabbit diseases in selected areas in Kenya ‘(BPS letter of March 8,2014)
- 9.5.29. Internal examiner in the examination of Dr. Peter Kimeli MSc thesis titled, ‘Evaluation of Locomotion scores in dairy and associated factors in smallholder zero-grazing units in Kikuyu District, Kiambu County, Kenya’ (BPS letter of April 12, 2014)
- 9.5.30. External Examiner for Mr.Gitonga Godfrey Mutuma MSc thesis titled, ‘Oral effect of khat (*Catha edulis* extract on liver and kidney of albino mice’, (from Kenyatta University, 2014)
- 9.5.31. Internal Examiner in the examination of Dr. Otsyina Hope Richard Ph.D thesis titled, ‘Prevalence, pathophysiology and diagnostic imaging of indigestible rumen foreign bodies in sheep and goats in Kenya’. As per the BPS letter dated December 3, 2014
- 9.5.32. External Examiner for Mr. Joseph Kiambi Mworira MSc thesis titled, ‘Antinociceptive activities of acetone leaves extract of *Carissa spinarum* and *Caesalpinia volkensii*’, (from Kenyatta University, 2015)
- 9.5.33. External Examiner for Mr. Makori Wycliffe Arika MSc thesis titled, ‘Bioprospecting for hypoglycaemic activities and safety of selected plants traditionally used in the management of diabetes mellitus’ (from Kenyatta University, 2016)
- 9.5.34. External examiner for Mr. Batroba Vulogosi MSc. thesis titled, ‘The in vitro effect of five herbs used to treat retained placenta in Vihiga County on isolated rabbit uterine strip’ (from Kenyatta University, 2016)

## **10. ADMINISTRATION**

- 10.1.** Chairman of the Department of Veterinary Pathology, Microbiology and Parasitology, University of Nairobi from February 2, 2010 to February 1, 2016. During my tenure I have led the Department in the following activities:
- Procurement of modern microscopes and closed circuit microscopy unit
  - Construction of a high volume disposal pit in 2013
  - Installation of a modern incinerator in 2014
  - Ongoing review of all MSc programs
  - Succession management and meritorious staff promotion
  - Maintenance and expansion of botanical garden and UnibioPark at CAVs
- 10.2.** Chairman of the, Faculty of Veterinary Medicine Biennial Scientific Conference Committee from January 2009 to December 2015. I have led the committee in successful planning, fundraising and implementation of the following conferences:
- 7<sup>th</sup> Faculty of Veterinary Medicine Biennial Scientific Conference in September 8-10, 2010
  - 8<sup>th</sup> Faculty of Veterinary Medicine Biennial Scientific Conference jointly with the 46<sup>th</sup> Kenya Veterinary Association annual Scientific conference that was also held in commemoration of the golden jubilee of the Faculty of Veterinary Medicine (UON) in April 25-27, 2012
  - 9<sup>th</sup> Faculty of Veterinary Medicine biennial scientific conference in September 3-5, 2014
- 10.3.** Member of the environmental committee which coordinates annual tree planting activities in College of Agriculture and Veterinary Sciences
- 10.4.** Member of the disposal committee of College of Agriculture and Veterinary Sciences University of Nairobi from October 27, 2010 to date
- 10.5.** Member of the management committee of the Centre for Sustainable Dryland Ecosystems and Societies (CSDES), University of Nairobi from 2011 to date
- 10.6.** Member of Antimicrobial resistance task force under the Director of Veterinary Services. We developed a draft antimicrobial containment roadmap in November 24-28, 2014
- 10.7.** Member of the Faculty of Veterinary Medicine Research committee from 2010 to 2012
- 10.8.** Member of the Continuing Professional Development (CPD) Committee of the Kenya Veterinary Board from 30<sup>th</sup> November 2010 to 2015. I have lead the Department in Organizing the following CDP activities:
- One-day course on, 'Forensic Veterinary Science', May 18, 2011

- Two-days course on, ‘Trends in Veterinary Parasitology’, August 10-11, 2011
  - ‘Raptors in East Africa’, Workshop on Health Disease and Rehabilitations of Birds of Prey’, July 3-7, 2013
  - ‘Practical Approaches for diagnosis and treatment of poultry diseases (one-day CPD training)’, August 6, 2014
- 10.9.** I and other colleagues at CAVS have were trainers of Ph.D supervisors at University of Nairobi under the PREPAPE Ph.D project on March 2-4, 2010, March 23-25, 2011 and June 17-19, 2014.
- 10.10.** I was the coordinator of Clinical Pathology course in the department of VPMP from 1992 to 1994.
- 10.11.** I was the coordinator of General and Systemic Pathology course from 1994 to 2009
- 10.12.** I was the coordinator of Histopathology course for BSc. in Biomedical Technology from 2000 to 2009
- 10.13.** I was the coordinator of Necropsy and Histopathology course for postgraduate students in veterinary pathology from 2000 to 2003
- 10.14.** I was the coordinator of Biosafety and Laboratory Safety course for MSc. in Clinical Pathology and Laboratory Diagnosis from 2005 to 2009
- 10.15.** I was the coordinator of Haematological Techniques Course for MSc. in Clinical Pathology and Laboratory diagnosis from 2005 to 2009
- 10.16.** I was the acting head of pathology section in the Department in 2009
- 10.17.** I have served in many staff appointment committees in UON
- 10.18.** I was the chairman of the Departmental committee for diagnostic services in 2009
- 10.19.** I have been a reviewer for ‘The Kenya Veterinarian’ (the journal of the Kenya Veterinary Association) and member of the Scientific and Editorial sub-committee of the Kenya Veterinary Association from 2006 to date
- 10.20.** I have been a reviewer for the African Journal of Pharmacology and Therapeutics from 2012 to date.
- 10.21.** I have been a member of the alternative and complementary medicine sub-committee of the Pharmacy and Poisons Board from 2005 to 2009.
- 10.22.** I have been a member and vice chairman of the steering committee for Rabbit Development Stakeholders’ Forum (Kenya) from 2010 to date.



- 10.23. I have been a member of stakeholders' initiative on harnessing an herbal product industry in Kenya, steered by the National Museums of Kenya from 2008 to date.
- 10.24. I have been a member of the Management Committee for the Veterinary Farm, Faculty of Veterinary Medicine from 2010-2013.
- 10.25. I have been a member of Board of Trustees for Ndia Constituency Education Fund Kirinyaga County from January 13, 2015 to August 2017.

## **11. LINKAGES/CAPACITY BUILDING:**

- 11.1. Collaborative research linkages with ILRI facilitated a donation of many major equipments and glassware from ILRI in August 2005 to the Department of VPMP.
- 11.2. Our research project on, 'Strategies to develop the Rabbit value chain' has brought together a working partnership between UON and KALRO, The Ministry of Livestock Development and the Rabbit Development Stakeholders' Forum (Kenya).
- 11.3. Our research project that was funded by the CSDES established a partnership with Colorado State University (CSU) in which new research ideas have been planned.

## **12. COURSES/WORKSHOPS ATTENDED FOR CONTINUING EDUCATION AND CAPACITY BUILDING**

The activities undertaken are that I:

- 12.1. Attended a course on Biostatistics for Scientific Research at ILRI March 9-11, 2005
- 12.2. Attended 7<sup>th</sup> Symposium of the Southern and Eastern Africa Division of the CL Davis pathology group, majoring on emerging and re-emerging, zoonotic, Trans-boundary and poultry diseases at Equatorial Hotel Kampala, Uganda on 22-23 Nov 2006.
- 12.3. Organized and attended the Eighth CL Davis Pathology Symposium for Southern and Eastern Africa at KIVI Milimani Hotel, Nairobi, on 21<sup>st</sup> – 24<sup>th</sup> November 2007. Theme was: Diseases of dairy animals - cattle, goats, camels, zoonoses, emerging and re-emerging diseases.
- 12.4. Attended UNDP/WORLD BANK/WHO-TDR training on Good Laboratory Practice (GLP) at Chiromo Campus, College of Biological Science, University of Nairobi on 24-26 October 2007.
- 12.5. Attended a Transformative leadership and result based management (RBM) at UON in October 25, 2007
- 12.6. Attended a Pedagogic training organized by UON in June 23 to 25, 2008.
- 12.7. Attended a leadership and team building course for the Faculty of Veterinary Medicine at UON in March 2009.
- 12.8. Attended a curriculum development workshop for a regional MSc. in Natural Products at Makerere University in June 17- 19, 2009.

- 12.9.** Attended a training of trainers (TOT) workshop for Ph.D supervisors at Moshi Tanzania in September 7-11, 2009.
- 12.10.** Participated in regional platform for climate change and trans-boundary animal diseases at Imperial Resort Beach Hotel, Entebbe, Uganda from 13-16, October 2009.
- 12.11.** Attended a follow training of trainers (TOT) workshop for Ph.D supervisors at Arusha, Tanzania in January 4 - 8, 2010.
- 12.12.** Served as a trainer of Ph.D supervisors at University of Nairobi under the PREPAPE Ph.D project on March 2-4, 2010, March 23-25, 2011 and June 17-19, 2014.
- 12.13.** Attended an open lecture on Chinese traditional medicine delivered by Tianjin University of Traditional Chinese Medicine (TUCM) at the school of Pharmacy, University of Nairobi, on 28<sup>th</sup> and 29<sup>th</sup> October, 2010.
- 12.14.** Participated in and was the moderator to the Natural Products Industry Initiative Stakeholders workshop at National museums of Kenya on December 9, 2010.
- 12.15.** Participated in the one health leadership training held on 14<sup>th</sup> and 15<sup>th</sup> December, 2010 at Serena Hotel, Nairobi, Kenya sponsored by USAID/RESPOND project.
- 12.16.** Participated in the Stakeholders workshop on Bachelor of Veterinary Medicine curriculum review at Maanzoni lodge on Sept. 15-20, 2013.
- 12.17.** Participated in the University of Nairobi Senate retreat at Great Rift Valley Lodge Naivasha on May 29-30, 2014.
- 12.18.** Participated in a training of the task force for antimicrobial resistance under the Director of Veterinary Services on November 24-28, 2014.
- 12.19.** Participated in the training on principles of gender mainstreaming held on December 15, 2014 at the CCU UoN.
- 12.20.** Attended a professional course in research and grant proposal writing in February 2015, sponsored by University of Nairobi Enterprises & Services limited (UNES).
- 12.21.** Attended a training / sensitization of University management board and senate on National values and principles of governance at the CCU UoN on March 30, 2015
- 12.22.** Attended a symposium on countering terrorism in search of a grand African strategy at 844 hall UoN on may 7, 2015
- 12.23.** Attended a training on environmental sustainability performance contract guidelines at CCU UoN on June 11 and 12, 2015
- 12.24.** Participated in the 3<sup>rd</sup> joint UoN/IGAD ISTVS quality assurance workshop held at Masada hotel Naivasha on July 16-18, 2015
- 12.25.** Attended the Research Grants Management Information System (RGMIS) launch at CCU-UoN on February 24, 2016
- 12.26.** Attended a continuous professional development program titled, 'Veterinary clinical pathology application in today's modern veterinary clinic programs', organized by Pathologists Lancet Kenya, on February 19, 2016, at Pride Inn hotel Westlands Nairobi

- 12.27.** I was a resource person and a team member in a workshop on development of guidelines for prudent use of antimicrobial use in veterinary practice at Masada hotel Naivasha from July 6-8, 2016 - hosted by Director of veterinary Services (DVS)
- 12.28.** I was a member of a team that finalized the guidelines for prudent use of antimicrobial in veterinary practice at on prudent in a workshop held at Panorama hotel Naivasha on July 17-18, 2017- Hosted by DVS

## RESEARCH PUBLICATIONS

### 12.29. Papers published in refereed Journals

- 12.29.1. Francis Ackah Armah, Isaac Tabiri Henner, Isaac Kingsley Amponsah, Robert Peter Biney, Fynn Malcolm, John Alake, Wisdom Ahlidja, Mustapha Abubakar Ahmed, Christian Kweku Adokoh, Genevieve Etonam Adukpo, Desmond Omane Acheampong and Peter K. Gathumbi 2021. Antidepressant and anxiolytic effects and subchronic toxicity of the aerial parts of *Psychotria ankasensis* J.B. Hall (Rubiaceae) in murine model. *Evidence based complementary and alternative medicine* Volume 2021. Article ID 5543320, 18 pages <https://doi.org/10.1155/2021/5543320>
- 12.29.2. Jackson M. Ncebere, 1 Paul G. Mbuthia, Robert M. Waruiru, and **Peter K. Gathumbi** (2021). *Veterinary Medicine International* Volume 2021, Article ID 8831996, 12 pages <https://doi.org/10.1155/2021/8831996>
- 12.29.3. R.N.Omani, C.G. Gitao, J. Gachohi, **P.K.Gathumbi**, B.A. Bwihangane, K.Abbey and V.J. Chemwono (2019). Peste des petits ruminants in dromedary camels and small ruminants in Mandera and Wajir Counties of Kenya. *Advances Virology* Volume 2019 Article ID 4028720 6 pages, <https://doi.org/10.1155/2019/4028720>
- 12.29.4. Thomas M. Nyariki · **Peter K. Gathumbi** · Lilly C. Bebora · Gerald M. Muchemi · Tarcisius A. Ngatia (2019). Hematologic Values of Healthy and Sick Free-Ranging Lesser Flamingos (*Phoeniconaias minor*) in Kenya. *Journal of Wildlife Diseases*. 55(1):123-128. doi: 10.7589/2016-04-079
- 12.29.5. Mary Wangui Mwangi, George Chege Gitao, **Peter Karuri Gathumbi** and Stanley Kinge Waithaka (2018). Relationship between serum IgM Levels and liver function in rubella and measles infection of children below five years in Nairobi County. *Asian Journal of Medical Sciences*. 9(2): 10-15, DOI:10.19026/ajms.9.5927ISSN: 2040-8765; e-ISSN: 2040-8773
- 12.29.6. Kennedy O. Ogolla, Joyce Chebet, Robert M. Waruiru, **Peter K. Gathumbi**, Paul O. Okumu, and Gabriel O. Aboge (2019). Efficacy of Ivermectin, Liquid Paraffin, and Carbaryl against Mange of Farmed Rabbits in Central Kenya. *Hindawi Journal of Tropical Medicine* Volume 2019, Article ID 5092845, 8 pages <https://doi.org/10.1155/2019/5092845>
- 12.29.7. Kennedy O. Ogolla, **Peter K. Gathumbi**, Robert M. Waruiru, Paul O. Okumu, Joyce Chebet, and Philip M. Kitala (2018). Efficacy of sulphachloropyrazine, amprolium hydrochloride, trimethoprim-sulphamethoxazole, and diclazuril against experimental and natural rabbit coccidiosis. *Journal of Veterinary Medicine* Article ID 5402469, 11 pages <https://doi.org/10.1155/2018/5402469>

- 12.29.8. Chebet J, Waruiru R M, Ogola K O, **Gathumbi P K**, Okumu P O, Wanyoike M and Aboge G O 2018: Prevalence, control and risk factors associated with rabbit mange in Kiambu and Nyeri counties, Kenya. *Livestock Research for Rural Development*. Volume 30, article #108. Retrieved July 14, 2018, from <http://www.lrrd.org/lrrd30/6/rmwa30108.htm>
- 12.29.9. Ochwang'i, D.O., Kimwele, C.N., Oduma, J.A., **Gathumbi, P.K.**, Kiama, S.G. and Efferth, T. (2018). Cytotoxic activity of medicinal plants of the Kakamega County (Kenya) against drug-sensitive and multidrug-resistant cancer cells. *Journal of Ethnopharmacology*, 215:233-240. doi: 10.1016/j.jep.2018.01.004. Epub 2018 Jan 5.
- 12.29.10. Ogolla, K.O., Chebet, J., **Gathumbi, P.K.**, Waruiru, R.M., Okumu, P.O., Kitale, P., Gichure J.N., Wanyoike M., Mailu S.K. , Munyua W.K. , Kibebe H. , and Hungu, J.M. (2017). Farmer practices that influence risk factors, prevalence and control strategies of rabbit coccidiosis in Central Kenya. *Livestock Research for Rural Development* 29(7) January 2017 <http://www.lrrd.org/lrrd29/7/koko29134.html>
- 12.29.11. Kamau LN, Mbaabu PM, **Gathumbi PK**, Mbaria JM and Kiama SG (2017). 2337 Medicinal plants used in the management of diabetes by traditional healers of 2338 Narok County, Kenya. *Tang (Humanitas Medicine)*. 7(2): 1-10 2339 <https://doi.org/10.5667/tang.2017.0008>
- 12.29.12. Dominic O Ochwang'i, Charles N Kimwele, Jemimah A Oduma, **Peter K Gathumbi**, Stephen G Kiama and Thomas Efferth (2016). Phytochemical Screening of Medicinal Plants of the Kakamega Country, Kenya Commonly Used against Cancer. *Med Aromat Plants* (Los Angel) 2016, 5:6 DOI: 10.4172/2167-0412.1000277
- 12.29.13. Hesbon Z. Amenya, James M. Mbaria, Andrew G. Thaiyah, Grace N. Thoithi, and **Peter K. Gathumbi** (2016). A 56-Day Oral Toxicity Study of the Aqueous Extract of *Rapanea melanophloeos* (L.) Mez in Rats. *Evidence-Based Complementary and Alternative Medicine* Volume 2016, Article ID 7403087, 10 pages <http://dx.doi.org/10.1155/2016/7403087>
- 12.29.14. Chai D., Bassis, C.M., Bergin, I.B., Bell, J.D., Nyachio A. and **Gathumbi P.K.** (2016). Prevalence and geographical distribution of *Papio hamadryas Papillomavirus 1* (PhPV1) in Kenyan Baboons. *Journal of Medical Primatology* (1, 3): DOI: 10.1111/jmp.12247
- 12.29.15. Kamau LN. , Mbaabu M.P., Mbaria J.M., **Gathumbi P.K.**, Kiama S.G., (2016) Knowledge and demand for medicinal plants used in the treatment and management of diabetes in Nyeri County, Kenya. *Journal of Ethnopharmacology*: <http://dx.doi.org/10.1016/j.jep.2016.05.021>
- 12.29.16. Kamau, LN., Mbaabu, PM., Mbaria, JM., **Gathumbi, PK.** and Kiama, SG. (2016). 2333 Ethnobotanical survey and threats to medicinal plants traditionally used for the 2334 management of human diseases in Nyeri County,

- Kenya. *Tang (Humanitas 2335 Medicine)*.6 (3): 21.1-21.15. Doi: <http://dx.doi.org/10.5667/tang.2016.0007> 2336
- 12.29.17. Kuria J.M., Mbaria J.M., **Gathumbi P.K.** and Kiama S.G. (2015). Influence of *Aspiria pluriseta* Scheinf (Asteraceae) on the healing of dermal excision wounds (mouse model) and skin sensitization activity (guinea pig model). *African Journal of Pharmacology and Therapeutics* 4: 112-117 *Open Access to full text available at <http://journals.uonbi.ac.ke/ajpt>*
- 12.29.18. Joan Murugi Njagi\*, Mathew Piero Ngugi, Cromwell Mwititi Kibiti, Joseph Ngeranwa, Wilson Njue, **Peter Gathumbi**, Eliud Njagi (2015). Hypoglycemic effect of *Helichrysum odoratissimum* in alloxan induced diabetic mice. *The Journal of Phytopharmacology*. 4: 30-33. (Online at: [www.phytopharmajournal.com](http://www.phytopharmajournal.com)).
- 12.29.19. Kamanja I.T., Mbaria, J.M., **Gathumbi, P.K.**, Mbaabu, M., Lanyasanya, A., Gakuya, D.W. · Kabasa, John D. and Kiama, S.G. (2015). Medicinal plants used in the management of sexually transmitted infections by the Samburu community, *International Journal of Pharmaceutical Research* 7: 2 (ISSN -0975-2366) [www.ijpronline.com](http://www.ijpronline.com) (ISSN -0975-2366) [www.ijpronline.com](http://www.ijpronline.com)
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- 12.29.26. Nasimolo, J., Kiama, S.G., **Gathumbi, P.K.**, Makanya, A.N, and Kagira, J.M (2014). *Erythrina abyssinica* prevents meningoencephalitis in chronic *T. brucei brucei* mouse model *Metab Brain Dis* DOI 10.1007/s11011-014-9488-5
- 12.29.27. Hesbon Z Ameyia, **Peter K Gathumbi**, James M Mbaria, Andrew G Thaiyah, Grace N Thoithi (2014). Sub-acute toxicity of the chloroformic extract of *Rapanea melanophloeos* (L.) Mez in rats. *Journal of ethnopharmacology* (Impact Factor: 2.32). 04/2014; DOI:10.1016/j.jep.2014.04.001 Source: PubMed
- 12.29.28. P.O. Okumu, **P.K. Gathumbi**, D.N. Karanja, J.D. Mande, M.M. Wanyoike, C.K. Gachuri, N. Kiarie, R.N. Mwanza and D.K. Borter (2014). Prevalence, pathology and risk factors for coccidiosis in domestic rabbits (*Oryctolagus cuniculus*) in selected regions in Kenya. *Veterinary Quarterly*, DOI: 10.1080/01652176.2014.978044 <http://www.tandfonline.com/loi/tveq20>
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### 12.30. Contributions to books

- 12.30.1. P.O. Okumu, D.N. Karanja and P.K. Gathumbi (2017). Disease of domestic rabbits and associated risk factors in Kenya. Verlag / Publisher LAP LAMBERT Academic publishing, Saarbrucken, Germany – ISBN 978-3-330-03267-5
- 12.30.2. P.K.Gathumbi (2012). Self efficacy in PhD study programme in: Wahome, R.G, Mbugua, P., Bebora, L., Kogi-Makau, W., Gathumbi, P. and Shibairo, S. A trainers manual on the supervision of PhD training. College of Agriculture and Veterinary Sciences, University of Nairobi. SAMIC Quality Enterprises Nairobi Kenya p 63-74
- 12.30.3. John B. Githiori and Peter K.Gathumbi, (2010) Ethnoveterinary plants used in East Africa, in: *Ethnoveterinary Botanical Medicine*, Katerere and Luseba (Eds.), Taylor & Francis Group. p 289-302
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**12.31. Thesis:**

12.31.1. **Personal Thesis**

- 12.31.1.1. Gathumbi, P.K. (1995). Toxicity of *Prunus africana* and its effects on prostate gland in rats. *PhD thesis University of Nairobi*
- 12.31.1.2. Gathumbi, P.K. (1987). Pathology of rinderpest as studied by light, electron microscopy and immunohistology. *MSc. thesis Swedish University of Agricultural Sciences, Uppsala, Sweden.*

12.31.2. **Supervised student's thesis**

- 12.31.2.1. J.D. Mande (2004). Clinical and Pathological Features of Osteoarthritis of the Hip Joint of Adult German shepherd Dogs in Kenya. *PhD thesis University of Nairobi*
- 12.31.2.2. J.M. Nguta (2011). Pharmacology, Toxicology and Phytochemical study of anti-malarial herbal remedies in Kenya. *PhD thesis University of Nairobi*
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- 12.31.2.6. Ngugi Mathew Piero (2006). Evaluation of hypoglycemic activity of some Kenyan plants traditionally used for the management of Diabetes mellitus. *MSc thesis Kenyatta University*
- 12.31.2.7. Njagi Joan Murugi (2006). Hypoglycemic effects of some anti-diabetic plants used in traditional medicine in Kenya. *MSc thesis Kenyatta University*
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- 12.31.2.9. Herbert Waitindi Kibebe (2010). Point of care testing in human diabetic patients using glycated hemoglobin at Nyeri Provincial general hospital and monitoring of HbA1C in diabetics induced mice. *MSc thesis University of Nairobi*
- 12.31.2.10. Wahome Amy Wambui Chege (2010). Toxicity studies of some Kenyan plants with hypoglycaemic activity used in traditional medicine. *MSc thesis Kenyatta University*
- 12.31.2.11. Dr. Daniel Chai Chivatsi (2010). Effect of Rosiglitazone on the pathology of endometriosis in baboon. *MSc thesis University of Nairobi*
- 12.31.2.12. Jared Misonge Onyancha (2011). Phytochemistry and Biological Activity of Giant St. John's Wort (*Hypericum keniense* Scheiwn. *MSc thesis University of Nairobi*
- 12.31.2.13. Hungu C.W. (2011). Production characteristics and constraints of rabbit farming in Central, Nairobi and Rift Valley provinces, Kenya - *MSc thesis University of Nairobi*
- 12.31.2.14. Hesbon Zablon Amenia, (2012). Acute and sub-chronic toxicological studies on *Rapanea melanophloeos*, an important medicinal plant in Kenya and other parts of the world. *MSc thesis University of Nairobi*
- 12.31.2.15. Dr. Tsigadi Sharon Andeyo (2012). Clinical, Radiographic and Pathological Features of Urinary Conditions in Dogs in Nairobi, Kenya. *MSc thesis University of Nairobi*
- 12.31.2.16. Dr. Mulei Isaac Rumpel (2012). The Effects of Schistomiasis and Malaria Co-infection on the Clinical and Pathological Outcome in Experimentally Infected Baboons (*Papio cynocephalus anibis*). *MSc thesis University of Nairobi*
- 12.31.2.17. Evalyn Mwihia (2013). Toxicity of *Albizia gummifera*, a plant commonly used to treat East coast fever in Kenya. *MSc thesis University of Nairobi*
- 12.31.2.18. Dr Denis Kirubi Muthuma (2013). Acute and sub-acute toxicity of Dichloromethane – Methanol extract of *Teclea trichocarpa* root-bark in rats. *MSc thesis University of Nairobi*
- 12.31.2.19. Dr Simon Migwi Maina (2014). Enhancement of Peste Des Petits Ruminants (PPR) diagnosis through analysis of experimental infection of sheep and goats and validation of real time polymerase chain reaction as a diagnostic tool in Kenya. *MSc thesis University of Nairobi*
- 12.31.2.20. Dr Paul Onyango Okumu (2014). Clinicopathologic survey and predisposing factors of diseases of domestic rabbits in selected areas in Kenya. *MSc thesis University of Nairobi*
- 12.31.2.21. Dr James Menni Kuria (2014). Efficacy of *Aspilia Pluriseta* Schweinf in cutaneous wound healing in a mouse model. *MSc thesis University of Nairobi*

### 12.32. Papers read in scientific conferences:

- 12.32.1. **Gathumbi, P.K.** and Mugeru, G.M. Rinderpest: Light microscopic and ultra structural study in experimentally infected cattle. Proceedings of SIDA International Postgraduate Programme on Veterinary Pathology (SIPATH) Regional follow up seminar for Africa, Nov.19 - Dec.6, 1987 Debre Zeit. Ethiopia
- 12.32.2. **P.K. Gathumbi.** Verminous pneumonia due to *Aelustrongylus abstrusus* in a cat. Kenya Veterinary Association Annual Scientific Conference, Kabete, April, 18-20, 1990
- 12.32.3. Mbai, K., Munyua, S.J.M., **Gathumbi, P.K.**, Tsuma, V.T. and Nduhiu, J.M. Ovine contagious epididymitis associated with *Actinobacillus seminis*. Proceedings of 9th SR-CRISP Scientific Workshop, KETRI Muguga, Kenya, 27-28th February 1991
- 12.32.4. **P.K. Gathumbi.** Immunohistological demonstration of canine distemper viral antigen in paraffin embedded tissues using the peroxidase technique - a retrospective study. Kenya Veterinary Association Annual Scientific Conference, Kabete, April 22-24, 1992
- 12.32.5. **P.K. Gathumbi,** G.M. Mugeru; S.M. Njiro and J.W. Mwangi. Toxicity of a chloroform extract of *Prunus africana* Hook. (*Pygeum africanum*) stem-bark in rats -Haematological, biochemical and pathological changes (poster). Abstracts of the sixth International Congress of Toxicology, Rome, 28 June-3 July 1992, Toxicology Letters Supplement (1992). p. 245
- 12.32.6. **P.K. Gathumbi.** Immunohistological diagnosis of rinderpest. Proceedings of IFS/SIPATH Seminar on Animal Diseases of the Gastrointestinal Tract and Liver. Addis Ababa, Ethiopia, September 20-25, 1993
- 12.32.7. **Gathumbi, P.K.;** G.M. Mugeru; J.W. Mwangi and S.M. Njiro. Pathology of a chloroform extract of *prunus africana* (Hook) stem-bark in rats - Pathological changes. Proceedings of IFS/SIPATH Seminar on Animal Diseases of the Gastrointestinal Tract and Liver. Addis Ababa, Ethiopia, September 20-25, 1993
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- 12.32.9. **P.K. Gathumbi.** Pathological and ultra structural features of equine Klossiellosis. Kenya Veterinary Association Annual Scientific Conference. Embu April 22-24, 1998
- 12.32.10. G.N. Thoithi, N. Maingi, **P.K. Gathumbi,** J.W. Mwangi and I.O. Kibwage, The anthelmintic activity of extracts from medicinal plants of Kenya, The 9<sup>th</sup> Symposium of the Natural Product Research Network for Eastern and Central Africa (NAPRECA), Nairobi, Kenya, 27-31 August 2001

- 12.32.11. **P.K. Gathumbi**, R.Pelle, J. Wando, G. Thoithi, J.W. Mwangi, I.O. Kibwage and N. Maingi.. A baseline study on plants used to treat animal trypanosomosis in Kenya: a community based approach. Proceedings of the first national workshop on medicinal, aromatic and other underutilized plant species in Kenya. Naivasha, Kenya, 29 Oct. to 3<sup>rd</sup> Nov. 2001
- 12.32.12. **P.K. Gathumbi**, G.N. Thoithi, J.W. Mwangi, I.O. Kibwage, N. Maingi, R. Pelle and J.Wando. Evaluation of effects of plant extracts on trypanosomes, Agricultural Research Fund (ARF) end of project conference, KARI, Nairobi, Kenya, 2<sup>nd</sup>-4<sup>th</sup> Dec. 2003
- 12.32.13. J.D. Mande and **P.K.Gathumbi** (2003). Correlation between radiographic and pathological features of osteoarthritis hip joints of adult dogs. Proceedings of the 13<sup>th</sup> International Veterinary Radiology Association (IVRA) Congress 18<sup>th</sup> – 22<sup>nd</sup> August 2003 in Midrand, South Africa Pp 93 and submitted for publication in the Journal of Veterinary Radiology and Ultrasound. (Abstract was published in the March/April Issue 2004 of the J Vet Rad & Ultrasound)
- 12.32.14. J.D. Mande, **P.K. Gathumbi**, P.M.F. Mbithi (2004). Synovial Osteochondromatosis in Osteoarthritic Hip and Stifle Joints of Adult Dogs. Presented at the Biennial Scientific Conference, Faculty of Veterinary Medicine, University of Nairobi held on 3<sup>rd</sup> -5<sup>th</sup> November 2004
- 12.32.15. J.K.Gikunju, T.E. Maitho, **P.K. Gathumbi** and S.E. Mitema. Toxic effects of Fluoride in rats exposed to different fluoride sources (2004). Presented at the Biennial Scientific Conference, Faculty of Veterinary Medicine, University of Nairobi held on 3<sup>rd</sup> -5<sup>th</sup> November 2004
- 12.32.16. **Gathumbi, P.K.**; Kibwage, I.; Mwangi, J.; Kabuitu, S.; Musoke, A.; Taracha, E. and Mwangi, D. Evaluation of *in vitro* activity of *Synadenium compactum* on *Theileria parva* presented at the Kenya Veterinary Association Annual Scientific conference, April 26<sup>th</sup> - 28<sup>th</sup> 2006
- 12.32.17. **P.K. Gathumbi** , G.N. Thoithi, J.W. Mwangi , I.O. Kibwage , R. Pelle, J.Wando, D. Mwangi (ILRI), N, Maingi ( 2007). Trypanocidal activity of an *Azadiracta indica* stem bark extract” Presented in the Kenya Veterinary Association Annual Scientific conference Eldoret, Kenya April 2007
- 12.32.18. **P.K. Gathumbi (2009)** Continuing education: an illustrated overview on pathology of the cardiopulmonary system - Presented in the Kenya Veterinary Association Annual Scientific conference Nyeri, Kenya April 2009
- 12.32.19. **P.K. Gathumbi** and E. Dobson (2011). Post mortem and forensic reporting and procedures. A paper presented to the Kenya Veterinary Association 45<sup>th</sup> Annual Scientific Conference and 11th World Veterinary Day Celebrations 27<sup>th</sup> to 30<sup>th</sup> April, 2011 Kisumu, Kenya
- 12.32.20. E. Dobson, E. Okoth, **P. Gathumbi** and R.Bishop (2011). The pathology of African swine fever virus infection in domestic pigs in Busia county Kenya. A paper presented to the Kenya Veterinary Association 45<sup>th</sup> Annual Scientific

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- 12.32.21. Hesbon Z. Amenity, **Peter K.Gathumbi** and James M. Mbaria. (2010). Acute toxicity and cytotoxicity of aqueous and chloroformic extracts of *Rapanea melanophloes*. *University of Nairobi, Faculty of Veterinary medicine 7th Biennial Scientific Conference, 8-10 September, 2010, Upper Kabete Campus (CAVS) Nairobi- Kenya.*
- 12.32.22. Kibebe, H.W, **Gathumbi P.K**, Kigundu C.S, Mbuthia P.G, Kariuki J.W. (2010). Early detection of hyperglycemia using glycated hemoglobin in mice model. *University of Nairobi, Faculty of Veterinary medicine 7th Biennial Scientific Conference, 8-10 September, 2010, Upper Kabete Campus (CAVS) Nairobi- Kenya.*
- 12.32.23. Gakuya, D.W., Mbaria, J.M., Kiama, S.G., **Gathumbi, P.K.**, Mathiu, M., Nguta, J.M (2010). Ethnoveterinary medicine: The prospects of integrating medicinal plants products in veterinary medicine in Kenya. *University of Nairobi, Faculty of Veterinary medicine 7th Biennial Scientific Conference, 8-10 September, 2010, Upper Kabete Campus (CAVS) Nairobi- Kenya*
- 12.32.24. D.W.Gakuya, Kiama, S.G., Mbaria, J.M, **Gathumbi, P.K.**, Mathiu, M, Nguta, J.M (2010). Traditional medicine in Kenya past and current status, challenges and the way forward. *University of Nairobi, Faculty of Veterinary medicine 7th Biennial Scientific Conference, 8-10 September, 2010, Upper Kabete Campus (CAVS) Nairobi- Kenya.*
- 12.32.25. **Gathumbi, P.K.** (2010). Emerging livestock: current status, global perspective with a local focus. *University of Nairobi, Faculty of Veterinary medicine 7th Biennial Scientific Conference, 8-10 September, 2010, Upper Kabete Campus (CAVS) Nairobi- Kenya.*
- 12.32.26. **Gathumbi P. K.** Amenity H. Z., Ochung' A. O., Musemb. J.K. Gachoka, J.M., Ngugi, R.K., Kariuki, S.K (2011). The diversity of medicinal plants at the botanical garden in university of Nairobi (Upper Kabete Campus. *aGro2011 Inaugural Biennial Conference of Faculty of Agriculture, College of Agriculture and Veterinary Sciences, University of Nairobi, on September 26-28, 2011, at the College of Agriculture and Veterinary Sciences Upper Kabete Campus*
- 12.32.27. Manyibe, T.N., Muriuki, S. and **Gathumbi, P.K (2012)**. Conservation medicine in the African context. *University of Nairobi, Faculty of Veterinary medicine 8th Biennial Scientific Conference and the 46th Kenya Veterinary Association Annual Scientific Conference, 25 - 27 April, 2012, Safari Park Hotel, Nairobi-Kenya*
- 12.32.28. Manyibe, T.N, **Gathumbi, P.K**, Ngatia, T.A, Bebora, L, Muchemi, G. (2012). Historical perspectives of lesser flamingo mortalities in Kenya. *University of Nairobi, Faculty of Veterinary medicine 8th Biennial Scientific*



*Conference and the 46th Kenya Veterinary Association Annual Scientific Conference, 25 - 27 April, 2012, Safari Park Hotel, Nairobi-Kenya*

- 12.32.29. J. M. Nguta, J.M. Mbaria, D.W.Gakuya, **P.K.Gathumbi**, J.D.Kabasa, S.G.Kiama (2012). Cytotoxicity of anti-malarial plant extracts from Kenyan biodiversity to the brine shrimp, *artemia salina* l. (artemiidae). *University of Nairobi, Faculty of Veterinary medicine 8th Biennial Scientific Conference and the 46th Kenya Veterinary Association Annual Scientific Conference, 25 - 27 April, 2012, Safari Park Hotel, Nairobi-Kenya*
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- 12.32.33. Shah, D.N. and **P.K.Gathumbi** (2014). Non-neoplastic cutaneous lesions in Kenyan horses between 1967-2013. *University of Nairobi, Faculty of Veterinary medicine 9th Biennial Scientific Conference, 3<sup>rd</sup> – 5<sup>th</sup> September, 2014, Upper Kabete Campus (CAVS)-Kenya*
- 12.32.34. Miheso K.O, Mbuthia P.G., Njagi L.W., Karanja D.N., **Gathumbi, P.K.**, Mwangangi, D.N., Shah, D.N., Wanjohi, C.W. and Muriithi, M.R. (2014). *University of Nairobi, Faculty of Veterinary medicine 9th Biennial Scientific Conference, 3<sup>rd</sup> – 5<sup>th</sup> September, 2014, Upper Kabete Campus (CAVS)-Kenya*
- 12.32.35. Okumu O.O., **Gathumbi, P.K.**, Karanja, D.N., Bebora ,L.C., Mande, J.D., Wanyoike, M.M., Serem, J., Gachuiiri, C., Mailu, S.K., Mwanza, R.N., Borter, D.K., Lwoyelo, J. and Kiarie, N. (2014). *University of Nairobi, Faculty of Veterinary medicine 9th Biennial Scientific Conference, 3<sup>rd</sup> – 5<sup>th</sup> September, 2014, Upper Kabete Campus (CAVS)-Kenya*
- 12.32.36. Mwhia, E.W., **Gathumbi, P.K.**, Thoithi, G.N., Kabuitu, S.K. and Eshitera. (2014). Acute and sub acute toxicity of *Albizia gummifera* extracts in rats. *University of Nairobi, Faculty of Veterinary medicine 9th Biennial Scientific Conference, 3<sup>rd</sup> – 5<sup>th</sup> September, 2014, Upper Kabete Campus (CAVS)-Kenya. 82*
- 12.32.37. Ogolla, K. O., Chebet, J., Gathumbi, P., Okumu, P., Waruiru, R. and Kitala, P. (2018). Efficacy trial of sulphachloropyrazine, amprolium, trimethoprim,

sulphamethoxazole and diclazuril in experimental and field rabbit coccidiosis in Kenya . The six African higher education week and RUFORUM biennial conference, 22-26 October. 2018. Kenyatta International Convention Centre (KICC) Nairobi Kenya

### **12.33. Non - refereed journals /magazine/books, seminars**

- 12.33.1. **P.K. Gathumbi** (1999). Final project report titled, 'Toxicity of *Prunus Africana* in rats and goats', IFS
- 12.33.2. **P.K. Gathumbi** (2004). Final project report titled, 'Evaluation of plant extracts for their effects on trypanosomes and as anthelmintics'. ARF/ KARI
- 12.33.3. **P.K. Gathumbi** (2004). Final substantive project report titled, 'Evaluation of efficacy and safety of medicinal plant extracts used to treat East Coast fever (*Theileria parva* infections)'. Rockefeller Foundation ACA grant 2001 AR 058
- 12.33.4. **P.K. Gathumbi** 2005 Project completion report titled, 'Further characterization of efficacy and safety of medicinal plant extracts used to treat East Coast fever (*Theileria parva* infections in cattle'. IFAR 2004 grant on Professional Development Programme
- 12.33.5. **P.K. Gathumbi** (2005 May 6). Seminar presentation titled, 'In vitro evaluation of efficacy and safety of plant extracts used to treat East Coast fever'. ILRI lab 5 and 6 seminars
- 12.33.6. **P.K. Gathumbi**, I.R. Mulei, D.N. Karanja, L.W. Njagi and M. Coughenour and Stakeholders at Marsabit (2014). Technical report on a project research titled, 'A multi-stakeholder study to enhance the control of livestock diseases that limit access to markets in dryland sites: Marsabit, Kenya'. (CSDES-UoN research grant)
- 12.33.7. **P.K. Gathumbi**, I.R. Mulei, D.N. Karanja, L.W. Njagi and M. Coughenour and Stakeholders at Marsabit (2014). Policy brief from a research project titled, 'A multi-stakeholder study to enhance the control of livestock diseases that limit access to markets in dryland sites: Marsabit, Kenya'. (CSDES-UoN research grant)

### **13. Supervision of post graduate students**

- 13.1 PhD students supervised to completion: six PhD students graduated
- 13.2 MSc. students supervised to completion: twenty one MSc students graduated.

### **14. External Examiner:**

- 14.1 Currently I am an external Examiner for Pwani University, Kenya
- 14.2 I have examined 34 theses (MSc and PhD), either as an external or internal examiner



**Peter k. Gathumbi**

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### **REFEREES**

- 1) Prof. J.W. Mwangi  
Faculty of Pharmacy,  
University of Nairobi,  
P.O. Box 19676-00202  
Nairobi.  
+254 722825966  
Email: julius.mwangi@uonbi.ac.ke
  
- 2) Prof. P.N. Kanyari,  
Faculty of Veterinary Medicine,  
University of Nairobi,  
P.O. Box 29053-00625,  
Nairobi.  
+254 722 714 284  
Email: kanyari@uonbi.ac.ke
  
- 3) Prof. P. N. Nyaga,  
Faculty of Veterinary Medicine,  
P.O. Box 29053-00625  
Nairobi.  
+254 733 944 899  
Email: pnyangaon@yahoo.co.uk