

**CURRICULUM VITAE**  
**PROF. GEORGE KARUOYA GITAU (BVM, MSc, PhD)**

---

**PERSONAL DETAILS**

---

**Professor**

**Epidemiology and Food Animal Medicine**

Department of Clinical Studies

Faculty of Veterinary Medicine

University of Nairobi

P.O. Box 29053-00625

Nairobi, Kenya

Phone: 254-733-544822 (mobile), 254-716-888255 (mobile), 254-763-888255 (mobile)

E-mail: gkgitau@uonbi.ac.ke

karuoya2003@yahoo.com

**Marital Status:** Married and with two sons

**Nationality:** Kenyan

**Languages:** English, Kiswahili, Kikuyu, French (limited)

**CAREER GOAL/OBJECTIVE**

---

To build capacity, and provide leadership and mentorship to veterinary professionals and other related experts with knowledge and skills in medicine, epidemiology and herd health to enable them to participate in local, national, regional and international disease diagnosis, prevention, control and management among other things.

**EDUCATION**

---

1998 **Doctor of Philosophy**, University of Nairobi/International Livestock Research Institute.

1992 **Master of Science**, University of Guelph, Department of Population Medicine, Ontario Veterinary College, Canada.

1987 **Bachelor of Veterinary Medicine**, Faculty of Veterinary Medicine, University of Nairobi, Kenya.

1981 **Kenya Advanced Certificate of Education**, Kianyaga High School, 3 Principals and 1 subsidiary.

1979 **East African Certificate of Education**, Murang'a High School, Division 1.

## EMPLOYMENT

---

### SUMMARY OF WORK EXPERIENCE AND PROFESSIONAL SKILLS/EXPERTISE

I have specialised training in **Food Animal Medicine, Herd Health and Epidemiology**. I have skills in field veterinary work, teaching at the university (both at undergraduate and postgraduate levels), project execution, scientific publications, extension service and community participatory approaches. I have published in refereed scientific journals from my original research work and work carried out with others. **I have published 111 scientific papers in peer-reviewed scientific journals. I have presented 68 papers in local, regional and international conferences.** I have gained experience in supervising postgraduate students and their research projects, carrying out faculty assignments and consultancies in local and international organisations. I have supervised **52** postgraduate students, **12 Ph.D. (completed), 1 PhD (ongoing), and 38 MSc/MPH (completed) and 1 MSc (ongoing).** I have initiated and participated in the design and conducting of field studies, data gathering and analysis, using a variety of modeling techniques in various software programs. I have supervised 23 undergraduate student projects.

I have demonstrable experience in office management and ability to perform and deliver many tasks effectively and efficiently to meet deadlines. I have excellent teamwork and interpersonal skills, good communications skills and ability to motivate and encourage others to achieve expected tasks. I have experience in development of work plans, log- frames and supervise staff to meet deadlines.

I have experience in resource mobilisation and negotiation skills at national, regional and international levels. I have (together with others) attracted research/project grants from different Funding or Grant Agencies such as **United States Agency for International Development (USAID), VSF-Suisse, Sir James Dunn Animal Welfare, Canada, Canadian Queen Elizabeth II Diamond Jubilee Grants, Bimeda Pharmaceutical International, GEF/UNEP, CIDA, IDRC, KAPP, DFID, EU, RUFORUM and CDC, among others.**

**PROFESSOR: 17<sup>th</sup> July 2014 – To date, Faculty of Veterinary Medicine, University of Nairobi**

#### **Responsibility:**

Teaching undergraduate students and undertaking field clinical work in the disciplines of Food Animal Medicine, Preventive Medicine & Herd (Population) Health. Teaching postgraduate students in the disciplines of Epidemiology, Food Animal Medicine and Herd health. In addition, supervising M.Sc. and PhD students' field projects and dissertations. Designing, implementing and management (financial& field) of several field studies

addressing animal health and production constraints in both dairy and pastoral production systems.

**ASSOCIATE PROFESSOR: November 2008 – July 2014, Faculty of Veterinary Medicine, University of Nairobi**

**Responsibility:**

Teaching undergraduate students and undertaking field clinical work in the disciplines of Food Animal Medicine, Preventive Medicine & Herd (Population) Health. Teaching postgraduate students in the disciplines of Epidemiology, Food Animal Medicine and Herd health. In addition, supervising M.Sc. and PhD students' field projects and dissertations. Designing, implementing and management (financial& field) of several field studies addressing animal health and production constraints in both dairy and pastoral production systems.

**SENIOR LECTURER: September 1999 – November 2008: Faculty of Veterinary Medicine, University of Nairobi**

**Responsibility:**

Teaching undergraduate students, and undertaking field clinical work in the disciplines of Food Animal Medicine, Preventive Medicine & Herd (Population) Health. Teaching postgraduate students in the disciplines of Epidemiology, Food Animal Medicine and Herd health. In addition, supervising M.Sc. and PhD students' field projects and dissertations. Designing, implementing and management (financial& field) of several field studies addressing animal health and production constraints in both dairy and pastoral production systems.

Some key responsibilities at the Department:

**Ag. CHIEF ANIMAL RESOURCES OFFICER: Scientific Officer/Veterinarian: March 2002 - January 2007, African Union-IBAR**

**Responsibility:**

Head of Section, Animal Resources Unit of African Union-Interafrican Bureau Animal Resources (AU-IBAR), Editor in-charge of the publication of AU-IBAR's scientific journal, the **Bulletin for Animal Health and Production in Africa**, liaison for United Nations Institutions (UNEP, UNCCD and UNDP), ILRI, FARA and ALIVE. Coordinator (Sept 2005 – January 2007) for **GEF/UNEP** funded Dryland Livestock Wildlife Environment Interface Project (DL- WEP) in Kenya (Laikipia and Samburu Districts) and Burkina Faso (Arli Province). Between July 2005 and May 2006, I was the Team Leader and in-charge of two major **USAID-funded projects** on **HIV** and **Livestock Disease and Marketing** at AU-IBAR specifically being implemented in North Eastern Province of Kenya. I represented the Director AU-IBAR, occasionally on African Diplomatic Corps meetings in Nairobi and several GoK and IGAD meetings.

**LECTURER: June 1994 - September 1999, Faculty of Veterinary Medicine, University of Nairobi**

**Responsibility:**

Teaching undergraduate students and undertaking field clinical work in the disciplines in the disciplines of Food Animal Medicine, Preventive Medicine & Herd (Population) Health). Giving lectures and practical to postgraduate students in the disciplines of Epidemiology, Food Animal Medicine and Herd health. In addition, supervising M.Sc. and PhD students' field projects and dissertations.

Designing, implementing and management (financial& field) of several field studies addressing animal health and production constraints in both dairy and pastoral production system.

**ASSISTANT LECTURER: August 1989 - June 1994, Faculty of Veterinary Medicine, University of Nairobi****Responsibility:**

Teaching undergraduate students and undertaking field clinical work in the disciplines of Food Animal Medicine. Undertaking intensive training in epidemiology (design and implementation of field studies) and participating and experiencing initial exposure to field studies.

**VETERINARY OFFICER: July 1987 - August 1989**, Ministry of Livestock Development, Kenya.

**Responsibility:**

My work was on general veterinary practice, preventive medicine and advising farmers on modern animal production techniques in a high potential dairy farming area. Supervision of animal health technicians and other general staff working in the veterinary department in addition to management of the finances, vehicles and other government assets.

**MEMBERSHIP OF UNIVERSITY OF NAIROBI SENATE (2019-2021) AND SERVED IN THE FOLLOWING SUB-COMMITTEES**

1. Member of University of Nairobi Sub-Committee to Review Rules Governing Senate Meetings (2019)
2. Member of the University of Nairobi Ad-Hoc Advisory Sub-Committee on COVID-19 preparedness (March-June 2020)
3. Senate Sub-Committee on review of the CUE harmonised Criteria for Appointment and Promotion of academic staff - UON (January-May 2020).

**EXTERNAL EXAMINER**

**External Examiner**, Department of Veterinary Medicine and Public Health, *Sokoine University of Agriculture*, Morogoro, Tanzania – **1<sup>st</sup> July 2019 - 31<sup>st</sup> July 2021.**

**External Examiner**, School of Veterinary Medicine, **University of Ghana**, Accra, Ghana – **1<sup>st</sup> June 2018 – 30<sup>th</sup> June 2020.**

**External Examiner**, Department of Veterinary Medicine and Public Health, **Sokoine University of Agriculture**, Morogoro, Tanzania – **1<sup>st</sup> July 2012 - 31<sup>st</sup> July 2014**.

## **NATIONAL AND REGIONAL RESPONSIBILITIES**

**Chairman, Regional Research and Development Working Group, March 2024 to-date**  
The East African Science and Technology Council (EASTECO) of the East African Community (EAC).

**Editor-in-Chief, (May 2019 – March 2024)** *East African Journal of Science Technology and Innovation*. A quarterly publication of The East African Science and Technology Council (EASTECO) of the East African Community (EAC).

**Chairman, Board of Trustees**, University of Nairobi Pension Scheme 2007 – **May 2022 to May 2024**.

**Board Member**, Kenya Veterinary Vaccine Production Institute, **May 2022 to April 2023**.

**Member, Executive Committee**, Kenya Veterinary Association, 2000-2002 and 2013-2013

**Trustee**, University of Nairobi Pension Scheme 2007 – **May 2021 to May 2024**.

**Chairman, Board of Management**, **Rurii Secondary School**, **April 2015 to April 2022**.

**Board Member**, Board of Management, **Rurii Secondary School**, **April 2015 to April 2015**.

## **CONSULTANCIES/RESEARCH COLLABORATION**

---

**Bimeda Pharmaceuticals**. Clinical trial for the efficacy of Buparvaquone plus against East Coast fever (ECF) in Kenya (**October 2023 to February 2024**).

**Veterinary sans Frontières Suisse**. Research study on the helminths and Eimeria infections of camel calves, camel mastitis and camel milk quality among producers, transporters, bulkers and retailers in Isiolo and Nairobi Counties, (**July 2021 to August 2021**).

**Veterinary sans Frontières Suisse**. Technical reviews on: 1) Establishment of Livestock Disease Surveillance and Reporting System in Isiolo County, 2) Camel milk quality testing and analysis in Isiolo and Nairobi and, 3) Estimating disease morbidity, prevalence and mortality using propositional pilling for priority diseases in Isiolo County, (**July 2020 to August 2020**).

**Bimeda Pharmaceuticals.** Application of Bismuth Subnitrate-Ampiclox Dry Cow Therapy in Control of Dairy Cow Mastitis in Selected Farms in Kenya (**July 2017 to April 2018**).

**African Union.** Member of a High-Level Panel for the evaluation mission to the four shortlisted Member States who applied to host the Pan African University Rectorate (Headquarters), namely Benin, Cameroon, Ethiopia and Tunisia and the final selection of the host country (**November to December 2014**).

**RUFORUM.** Innovations for sustainable cropping and livestock production systems within value chains that improve smallholder incomes (**1<sup>st</sup> April to 30<sup>th</sup> September 2014**).

**African Development Bank.** Livestock Infrastructure Support Project (LISP). A project preparatory mission to assess the needs and sites for the establishment of livestock infrastructures in Northern, Muchinga and Luapula Provinces of Zambia (**29<sup>th</sup> April to 29<sup>th</sup> May 2012**).

**Veterinary sans Frontières Germany,** Livestock and Fisheries Development Project, Jonglei and Upper Nile States, South Sudan. **Final evaluation** of the Multi-Donor Trust Fund Project on the delivery of animal health services (**26<sup>th</sup> November to 10<sup>th</sup> December 2010**).

**African Development Bank.** Development and establishment of Disease-Free Zones in Kenya. A project preparatory mission to assess the needs and other details for the establishment of a DFZ in the Coastal area and Isiolo-Laikipia areas of Kenya (**3<sup>rd</sup> August to 12<sup>th</sup> September 2009**).

**World Vision International - Sudan,** Livestock and Fisheries Development Project, Western Equatorial State, South Sudan. Development of a proposal for multi-Donor trust Fund Project on the delivery of animal health services Western Equatorial State (**11<sup>th</sup> to 16<sup>th</sup> May 2009**).

**Veterinary sans Frontières Germany,** Livestock and Fisheries Development Project, Bor/Pibor Counties, Jonglei State, South Sudan. **Final evaluation** of the Multi-Donor Trust Fund Project on the delivery of animal health services and **Need Assessment** for the proposal development in Upper Nile and Eastern Equatorial States (**24<sup>th</sup> April to 11<sup>th</sup> May 2009**).

**Food and Agricultural Organisation of the United Nations-Somalia.** Training Somalia veterinarians on disease surveillance and control, livestock production and marketing in Somalia (**July to August 2009**).

**Food and Agricultural Organisation of the United Nations-Somalia.** Training Somalia veterinarians on disease surveillance and control, livestock production and marketing in Somalia (**April to May 2009**).

**United States Aid for International Development/Land O'Lakes (2008-2010).** Kenya Dairy Sector Competitiveness Program for Small Holder Dairy Farmers in Gatanga Milk Shed. Project Funded by USAID through Land O' Lakes.

**International Atomic Energy Agency/Food and Agricultural Organisation, 2002.** Consultant in Zanzibar from 25<sup>th</sup> August to 7<sup>th</sup> September 2002 on Mastitis Epidemiology and Control in smallholder dairy farms.

**Organisation of African Unity-Interafrican Bureau for Animal Resources (OAU-IBAR), 2001-2002.** Consultant editor/reviewer to revive the Bulletin of Animal Health and Production in Africa.

**Pan-African Programme for the Control of Epizootics (Economics Unit -PACE-OAU/IBAR), September/October 2001.** A review of Contagious Bovine Pleuropneumonia in Kenya – current and past 12 years.

**Pan-African Programme for the Control of Epizootics (Data management Unit-PACE-OAU/IBAR), July/August 2001.** Develop a database for PARC and PACE from past digital and paper documents to put into a CD-ROM resource base.

**International Atomic Energy Agency/Food and Agricultural Organisation, 2000.** Consultant in Zanzibar from 18<sup>th</sup> June to 1<sup>st</sup> July 2000 to train animal health extension workers on Mastitis Control in smallholder dairy farms.

**International Centre for Insect Physiology and Ecology (ICIPE), 2000-2002.** Collaborator to the agro-ecosystem management for community-based **integrated malaria control in Mwea** irrigation scheme, Kenya.

**International Livestock Research Institute (ILRI), 1999.** Consultant at ILRI, Nairobi, February/March 1999 in the Systems Analysis and Impact, Assessment, /Epidemiology and Disease Control project.

## **SHORT COURSES/TRAINING**

---

**Board Induction Course, Kenya School of Government.** Induction Program for Public Sector Boards, 7<sup>th</sup> – 9<sup>th</sup> November 2022.

**Training on Pension Trustees, Diani, Kwale Kenya.** 4<sup>th</sup> Annual Investment Conference by GenAfrica Limited (Asset Managers), Diani Reef Resort, Diani, Kwale, Kenya, **20<sup>th</sup>-24<sup>th</sup> July 2021.**

**Training on Pension trustees, Mombasa, Kenya.** 8<sup>th</sup> Annual Retirement Conference by Zamara Limited, Prideinn Paradise Beach Resort, Shanzu, Mombasa, Kenya, **24<sup>th</sup>-25<sup>th</sup> June**

**2021.**

**Trustee Development Programme Kenya (TDPK)**, Training by College of Insurance, Mombasa Beach Hotel, Mombasa, Kenya, **October 2021.**

**Intellectual Property Training.** A one-day training for University of Nairobi Intellectual Property Committee, IP Champions, Principal Technologists and Selected Researchers, held at the CCU-Main Campus, on **25<sup>th</sup> February 2016.**

**Zoonotic Disease Writing Workshop, Naivasha Kenya.** A workshop funded by USAID/DTRA and coordinated by Metabiota, USA for the preparation of scientific publications selected from the Regional Zoonoses held in February 2015. Workshop held at Enashipai Resort and Spa, Naivasha, **6<sup>th</sup> -12<sup>th</sup> February, 2016.**

**Community-based reporting systems for priority animal diseases.** Two days (2) workshop on identifying the procedures and criteria for identifying and engaging the community-based disease reporters for disease surveillance and control in the pastoral areas of Kenya. Workshop organized by the State Directorate of Veterinary Services, African Union-IBAR and the USAID, November 12<sup>th</sup>-13<sup>th</sup> 2015 at Sweet Lake Resort, Naivasha.

**Field Epidemiology and Laboratory Training Programme (FELTP).** A presentation workshop by freshly qualified veterinarians on projects developed from the field data collected on field epidemiology at Prideinn Hotel Westlands, Nairobi **September 28<sup>th</sup> – 29<sup>th</sup> 2015.**

**Field Epidemiology and Laboratory Training Programme (FELTP).** A pre-Vet qualification course given to freshly completed 5<sup>th</sup> Year Veterinary students to acquire skills on field epidemiology at Prideinn Hotel Westlands, Nairobi **June 8<sup>th</sup> – 12<sup>th</sup> 2015.**

Herd Health and Application of Epidemiologic Tools in livestock. Course jointly conducted by the University of Nairobi, University of Helsinki and Sokoine University of Agriculture at the Department of Clinical Studies, University of Nairobi. **June 3<sup>rd</sup> to 10<sup>th</sup> 2014.**

The launch of the **Rapid Results Initiative (RRI)** on the sensitization on the role of the University of Nairobi in the implementation of the Constitution of Kenya, 2010. Staff sensitization on Financial Management. Launch held at the Central Catering Unit (CCU) on **Friday September 6<sup>th</sup>, 2013.**

The launch of the **Rapid Results Initiative (RRI)** on the sensitization on the role of the University of Nairobi in the implementation of the Constitution of Kenya, 2010. Launch held at the College of Health Sciences on **Thursday August 22, 2013.**

**E-learning.** Two days training on e-learning tools and mounting e-course materials. Training conducted by the Information and Communication Technology Centre University of Nairobi,



Kenya. **August 2013.**

**PhD Supervision training.** Three (3) days training on how to supervise PhD students and the interaction between students and supervisors by PREPARE-PHD PROJECT at the College of Agriculture and Veterinary Sciences. **13<sup>th</sup> - 15<sup>th</sup> July 2011.**

**One Health Leadership Training.** Two days training on the skills to One Health Leadership by USAID RESPOND at the Nairobi Serena Hotel. **14<sup>th</sup>-15<sup>th</sup> December 2010.**

**Good animal welfare in Kenya.** Two days' workshop on the promotion of good animal welfare in Kenya held at the Agricultural Information Resource Centre. **28<sup>th</sup> and 29<sup>th</sup> October 2010.**

**E-learning.** One week training on e-learning tools and mounting e-course materials. Training conducted by the Information and Communication Technology Centre University of Nairobi, Kenya. **February 2010.**

**Performance Enhancement Strategies Course.** One day course organised by the University of Nairobi and Empowerment Resource Technologies Limited, **31<sup>st</sup> January 2009.**

**Advanced Leadership Skills.** One month Training organised by Haggai Institute Singapore to train Leaders from Developing Countries on Effective leadership, Goal Setting and Achievements, Communicating Effectively, Discipline of a Leader, Audio-Visuals among others, **September 20<sup>th</sup> – October 18<sup>th</sup> 2008.**

**Pedagogy training.** Training conducted by the College of Education and External Studies of the University of Nairobi, **June 2008.**

**Transformative Leadership and Results Based Management.** One day Training organised by the University Management Board to build capacity for academic staff members on Result Based Management, transformative leadership, change management, emotional intelligence among others, **25<sup>th</sup> October 2007.**

**Animal Health Policy Processes in Africa.** Training organised by the Institute of Development Studies (IDS), University of Sussex, UK, September **2004 and February 2005.**

**Strategic Online Publishing.** Training organised by the International Network for the Availability for Scientific Publications (INASP), **4<sup>th</sup> – 6<sup>th</sup> October 2004.**

**Corporate Governance.** Training conducted by Ghana Institute of Management, Mombasa Beach Hotel, **September 2004.**

**Publishing in an Electronic Environment.** Training organised by the International

Network for the Availability for Scientific Publications (INASP), **20<sup>th</sup> – 22<sup>nd</sup> October 2003.**

**Development of participatory Research Design and Methods for Pastoral Areas.** Training for Faculty of Veterinary Medicine Staff working in collaboration with Community based Animal Health and Participatory Epidemiology Project of the African Union-IBAR at Kabete Campus on **10<sup>th</sup> – 13<sup>th</sup> December 2001.**

**Participatory Rural Appraisal and their application to agro-ecosystem characterisation.** Course organised by ICIPE and IMWI, **2<sup>nd</sup> April - 14<sup>th</sup> April 2001.**

## **EDITORIAL BOARDS**

---

**Editor-in-Chief, May 2019 – March 2024** *East African Journal of Science Technology and Innovation*. A quarterly publication of The East African Science and Technology Council (EASTECO) of the East African Community (EAC).

**Reviewer,** Tropical Animal Health and Production Scientific Journal (**current**)

**Editor in charge, (2002-Jan 2007)** *Bulletin of Animal Health and Production in Africa*. A quarterly publication of African Union-InterAfrican Bureau for Animal Health and Production in Africa.

**Editorial Board Member (2002-2003),** *The Journal of Applied Research in Veterinary Medicine*, Veterinary Solutions LLC.

**Ad Hoc Editorial Board Member (1998-2007)** *Preventive Veterinary Medicine*, Elsevier Publishers.

## **PUBLICATIONS**

---

### **BOOKS**

Infectious Diseases of Sheep and Goats by Prof. J.N. Njenga, **Prof. G.K. Gitau** and Dr. A.G. Thaiyah. Egerton University Press, **2013**, ISBN 9966-05-400-6 pp279.

Royford Magiri, Kaampwe Muzandu, **George Gitau**, Kennedy Choongo, and Paul Iji. **July 2020.** Impact of Climate Change on Animal Health, Emerging and Re-emerging Disease in Africa, African Handbook of Climate Change Adaptation, **Book Chapter**, W. Leal Filho et al. (eds.), African Handbook of Climate Change Adaptation, [https://doi.org/10.1007/978-3-030-42091-8\\_19-1](https://doi.org/10.1007/978-3-030-42091-8_19-1).

### **PAPERS SUBMITTED OR IN SUBMISSION**

1. Grace Watene, Gabriel Aboge, **George Gitau**, Daniel Nthiwa, Ruth Omani and Bernard Bett. Seroprevalence and Risk Factors for *Coxiella burnetii* Exposure in Pastoral Cattle from Kenya's Maasai Mara Ecosystem, *Veterinary Medicine International*, (**Submitted, March 2025**).
2. Muasya D, VanLeeuwen J, **Gitau GK**, McKenna SL, Heider LC. Bovine viral diarrhea virus antibody response to a single dose of multivalent modified live vaccine and associated factors in smallholder dairy cattle in Meru Kenya, *BMC Veterinary Research* (**Submitted, August 2023**).
3. Korie, N, Njeru, L, Mburu, J and **Gitau, G.K.** Effect of the Adoption of Tomato Post-Harvest Loss (PHL) Reduction Technologies on Households' Wealth Status, *Journal of Agricultural Extension*, (**Submitted, May 2024**).
4. Rimfa Amos Gambo, **George K. Gitau**, Joseph Kamau, Andrew Thaiyah, Dawn M. Zimmerman, Daniel Chai, Samson Mutura, Fatima Hussein, Winold Mbindyo, Megan Vodzak and Suzan Murry. Molecular detection and characterization of coronaviruses isolated from olive baboons, bats and rodents in Laikipia County, Kenya. *African Journal of Zoology*, (**Submitted: March 2023**). <https://doi.org/10.1016/j.rvsc.2023.104954>

#### PAPERS PUBLISHED IN REFEREED JOURNALS

1. Wyckliff Ngetich, **George Karuoya Gitau**, Tequiero Abuom Okumu, Gabriel Oluga Aboge, and Daniel Muasya. The incidence and factors associated with *Theileria parva* seropositivity in the longitudinal study in a cohort of calves in Narok, Kenya, *Research in Veterinary Science*, (**Accepted, April, 24, 2024**). <https://doi.org/10.1016/j.vas.2025.100456>.
2. Daniel Karuoya Gitau, John M. Maingi, **George Gitau**, Daniel Muasya, Mercy Karugu, Ernestina Kiminda and John Mwaniki Njeru (2025). Prevalence, Associated Risk Factors and Antibiotic Susceptibility Patterns of Common Diarrheagenic Bacteria Isolated from Food Handler Populations in Nairobi, Kenya. *Journal of Advances in Microbiology*, Volume 25, Issue 5, Page 1-11, ISSN: 2456-7116. <https://doi.org/10.9734/jamb/2025/v25i5928>.
3. Josephat Murunga Mungoche, Oliver Vivian Wasonga, Davis Ikiror, Charles Gachui, Haron Akala, **George Karuoya Gitau**. *Prosopis juliflora* in the drylands: A review of invasion, impacts, and management in Eastern Africa, *Sustainable Environment*, (**Accepted, October 2024**).
4. **George K. Gitau**, Daniel W. Muasya, Willy Mwangi, Davis Ikiror, Nduhiu Gitahi, Douglas Machuchu, Genevieve Owuor and Adan Ibrahim (2025). Risk factors associated with camel milk total coliform and total viable bacterial count along the camel milk value chain in Isiolo County, Kenya, *Journal of Research in Veterinary Sciences*, 5(1): 29-40, doi: 10.5455/JRVS.20241215111750.

5. Edward Kariuki Ng'ang'a, John Vanleeuwen, **George Gitau**, Shawn McKenna, Luke Heider, and Daniel Wambua Muasya (**November 2024**). Investigating compliance with cow comfort and mastitis control recommendations on mastitis outcomes in smallholder dairy farms in central Kenya, *Research in Veterinary Science*, <https://doi.org/10.1016/j.rvsc.2024.105469>.
6. Kibet N.C, **Gitau G.K.**, Shepelo G. P., Muasya D.W., and Ngetich W. (**March 2024**). Seroprevalence of *Babesia bigemina* and *Anaplasma marginale* infections and their associated risk factors among calves in Narok County, Kenya *East African Journal of Science, Technology and Innovation*, Vol. 5 (2): **DOI:** <https://doi.org/10.37425/7h2t3680>.
7. Wyckliff Ngetich, **George Karuoya Gitau**, Tequiero Abuom Okumu, Gabriel Oluga Aboe, and Daniel Muasya (**March 2024**). Sero-prevalence and risk factors associated with *Theileria parva* infection among calves in Narok County, Kenya, *Veterinary World*, Vol 17: 3 (14)-620-629: <https://www.veterinaryworld.org/Vol.17/March-2024/14.html>.
8. Peter Kimeli, **George K Gitau**, Davis Z Ikiror, Willy Mwangi and Moses I G. (**October 2023**). A cross-sectional study on gastrointestinal parasitism in dromedary camel calves in Isiolo County, Kenya, *Journal of Advanced Veterinary Research*, Vol.15(4), pp. 59-66: <https://doi.org/10.5897/JVMAH2023.1045>.
9. Ngetich W, **Gitau GK**, Abuom TO. Aboe GO, Muasya DW (**September 2023**). Description of cattle production systems in different agro-ecological zones of Narok County, Kenya, *East African Journal of Science, Technology and Innovation*, Vol. 4 (4): DOI <https://doi.org/10.37425/eajsti.v4i4.765>.
10. Edward Kariuki Ng'ang'a, John Vanleeuwen, **George Gitau**, Shawn McKenna, Luke Heider, and Daniel Wambua Muasya (**July 2023**). Randomized control trial to investigate compliance with, and impacts of, cow comfort recommendations on smallholder dairy farms in Kenya, *Research in Veterinary Science*, Vol.162: <https://doi.org/10.1016/j.rvsc.2023.104954>.
11. Korie, N, Njeru, L, Mburu, J and **Gitau, G.K.** (**March 2023**). Assessment of factors influencing adoption of tomato post-harvest loss-reduction technologies in Kaduna state, Nigeria. *East African Journal of Science, Technology and Innovation*, Vol. 4 (2): DOI <https://doi.org/10.37425/eajsti.v4i2.599>.
12. Gakuru M.I., **Gitau G.K.**, Muthee J.K., and Muasya D., and Ikiror D. (**December 2022**). Epidemiological factors associated with gastrointestinal parasitic infection in zebu cattle calves among pastoralists in Isiolo county Kenya, *East African Journal of Science, technology and Innovation*, Vol. 4 (1): <https://doi.org/10.37425/eajsti.v4i1.541>.
13. Gakuru M.I., **Gitau G.K.**, Muthee J.K., and Muasya D., and Ikiror D. (**December 2022**). The occurrence of gastrointestinal parasites in zebu calves among pastoralists in Isiolo County Kenya. *East African Journal of Science, Technology and Innovation*, Vol. 4 (1): <https://doi.org/10.37425/eajsti.v4i1.545>.

14. Korie, N, Njeru, L, Mburu, J and **Gitau, G.K. (December 2022)**. Effects of selected drivers of information and communication on awareness and perception of tomato post-harvest loss-reduction technologies in Kaduna, Nigeria, *East African Journal of Science, Technology and Innovation*, Vol. 4 (1): <https://doi.org/10.37425/eajsti.v4i1.531>.
15. Mwangi W, **Gitau G.K.**, Ikiror D.Z., Kimeli P. Gakuru M.I., Machuchu, D., and Kingori, W. **(December 2022)**. The prevalence, antimicrobial sensitivity and factors associated with camel mastitis in Isiolo County, Kenya, *Veterinary World*, 15(12): 2962–2970. doi: [www.doi.org/10.14202/vetworld.2022.2962-2970](http://www.doi.org/10.14202/vetworld.2022.2962-2970).
16. **George K. Gitau**, Peter Kimeli, Davis Z. Ikiror, Willy Mwangi, Douglas Machuchu, Mosses I. Gakuru and Genevieve Owuor **(August 2022)**. Factors associated with total coliform and total viable bacterial count in camel milk from Isiolo County, Kenya, *Veterinary World*, 15 (5): 1954-1960. doi: [www.doi.org/10.14202/vetworld.2022.1954-1960](http://www.doi.org/10.14202/vetworld.2022.1954-1960).
17. Edward Ng'ang'a, John Vanleeuwen, **George Gitau**, Shawn McKenna, Luke Heider, Gregory Keefe and Emily Kiugu **(June 2022)**. Investigating compliance with and impacts of cow comfort recommendations in smallholder dairy farmers in Meru region, Kenya, *East African Journal of Science, Technology and Innovation East African Journal of Science, Technology and Innovation*, Vol. 3 (3): DOI <https://doi.org/10.37425/eajsti.v3i3.448>.
18. Muasya D, VanLeeuwen J, **Gitau GK**, McKenna SL, Heider LC, Rodriguez JC and Muraya J., **(March 2022)** Cross-reactivity of antibody and antigen test results for bovine viral diarrhoea virus and classical swine fever virus in dairy cattle in Kenya, *Veterinary World*, 15(5): 1290-1296.
19. Muraya J, Vanleeuwen JA, Makau D, **Gitau GK**, Wichtel JJ, Crane MB, McKenna SL. **(December 2021)**. Seroprevalence and risk factors of Neospora caninum and Bovine Viral Diarrhoea Virus in smallholder dairy cattle in Kenya, *East African Journal of Science, Technology and Innovation East African Journal of Science, Technology and Innovation*, Vol. 3 (1): DOI <https://doi.org/10.37425/eajsti.v3i1.391>.
20. Vanleeuwen JA, Muraya J, **Gitau GK**, Makau D, M. Bronwyn Crane, Shawn LB McKenna, Jeff J. Wichtel **(September 2021)**. Randomized controlled trial on impacts of using sex-sorted semen and reproductive hormones in smallholder dairy cows in Eastern Kenya, *East African Journal of Science, Technology and Innovation*, Vol 3:1; DOI:<https://doi.org/10.37425/eajsti.v2i4.314>.
21. Ronald Kiprono Sang, **George K. Gitau** and John Vanleeuwen, **(June 2021)**. Effectiveness of dry cow therapy and/or internal teat sealant on existing infections in smallholder dairy farms in Kenya, *Veterinary World*, 14(6): 1430-1436.
22. Kimeli P, Vanleeuwen J, **Gitau GK**, Heider LC, McKenna SL, Greenwood SJ. **(April-June 2021)**. Partial budget on calf welfare interventions on Kenyan smallholder farms, *Journal of*

*Development and Agriculture Economics*, Vol. 13(2), pp. 119-129, DOI: 10.5897/JDAE2021.1259.

23. Kimeli P, Vanleeuwen J, **Gitau GK**, Heider LC, McKenna SL, Greenwood SJ. (**February, 2021**) Evaluation of environmental and comfort enrichment on affective welfare in heifer calves on smallholder dairy farms. *Preventive Veterinary Medicine*, <https://doi.org/10.1016/j.prevetmed.2021.105296>.
24. Kimeli P, Vanleeuwen J, **Gitau GK**, Heider LC, McKenna SL, Greenwood SJ., (**January, 2021**) Effect of housing improvements on the growth of heifer calves on Kenyan smallholder farms. *Tropical Animal Health and Production*, **53**: 120, <https://doi.org/10.1007/s11250-020-02548-4>.
25. Davis Ikiror, **George K. Gitau**, Kennedy Agoi, Gerald Njoroge, Wallace King'ori, Genevieve Owuor and Hilda Kiritu, (**December 2020**). Livestock disease surveillance through the use of Smart Phone Application in Isiolo County, Kenya, Kenya *East African Journal of Science Technology and Innovation*, 2:1, DOI <https://doi.org/10.37425/eajsti.v2i1.218>.
26. H.A. Omondi, **G.K. Gitau**, P. Gathura, E. Mulinge, E. Zeyhle, P. Kimeli and B. Bett (**October 2020**). The predominance of *Echinococcus canadensis* (G6/7) in livestock from three north-eastern Counties of Kenya, *Journal of Helminthology*, **94**, E205. doi:10.1017/S0022149X20000899.
27. Kimeli P, Vanleeuwen J, **Gitau GK**, Heider LC, McKenna SL, Greenwood SJ, (**June, 2020**). Management factors associated with time-to-onset of gastro-intestinal parasitism in heifer calves on Kenyan smallholder farms, *Veterinary Parasitology*, <https://doi.org/10.1016/j.vetpar.2020.109174>
28. Silvia Situma, **George K. Gitau**, John VanLeeuwen, Charles M. Mulei, Peter Kimeli (**June 2020**). Impact of calf feeding practices on calf growth and health in smallholder dairy farms in Nyeri County, Kenya *East African Journal of Science Technology and Innovation*, 1 (3): 1-17. DOI <https://doi.org/10.37425/eajsti.v1i3.150>.
29. Nashon Wavumbah Wanjala, **George K. Gitau**, Gerald M. Muchemi and Dennis N Makau, (**June, 2020**). Effect of Bismuth Subnitrate Teat Canal Sealant with Ampicillin-Cloxacillin Combination in Control of Bovine Mastitis in Selected Farms in Kenya, *International Journal of Veterinary Science*, 9(3): 331-336, DOI: 10.37422/IJVS/20.049.
30. Dennis Makau, John A. VanLeeuwen, **George K. Gitau**, Shawn L. B. McKenna, Colleen Walton, Joan Muraya and Jeffrey Wichtel (**February 2020**). Effects of *Calliandra* and *Sesbania* on daily milk production in dairy cows on commercial smallholder farms in Kenya, (**February 2020**), *Veterinary Medicine International*, <https://doi.org/10.1155/2020/3262370>.

31. Essau Kipyego Serem, **George Karuoya Gitau**, John Vanleeuwen, Peter Kimeli, Tequiero Okumu Abuom, Daniel Waweru Gakuya, Joan Muraya and Dennis Makau (**November 2019**). Sero-prevalence and risk factors of infectious bovine rhinotracheitis virus (type 1) in Meru County, Kenya, *Preventive Veterinary Medicine*, <https://doi.org/10.1016/j.prevetmed.2019.104863>.
32. Emily K. Kathambi, John A. VanLeeuwen, **George. K. Gitau** and Crawford Revie (**November 2019**). Assessment of farmers' compliance in implementing recommended cow comfort changes and their effects on lying time, stall and cow cleanliness within smallholder dairy farms in Kenya. *Preventive Veterinary Medicine*, 172, <https://doi.org/10.1016/j.prevetmed.2019.104784>.
33. Makau DN, Vanleeuwen JA, **Gitau GK**, McKenna, SL, Muraya J, Walton C, Wichtel JJ (**November 2019**). Effects of Calliandra and Sesbania supplementation on weight gain in dairy calves on smallholder farms in Kenya, *Preventive Veterinary Medicine*, 15; 172: <http://DOI: 10.1016/j.prevetmed.2019.104787>.
34. Muasya D. W., **Gitau G. K.**, Thaiyah A. G., Gakuya D.W., Vanleeuwen J. and Mbatha P. (**October 2019**). A comparison between indirect ELISA and tuberculin skin test in the diagnosis of bovine tuberculosis in Kenya. *East African Journal of Science Technology and Innovation* 1 (1): 1-10.
35. Peter Kimeli, Dennis Makau, John VanLeeuwen, **George Gitau**, Joan Muraya, Shawn McKenna and Luke Heider (**October 2019**). Factors associated with leg cleanliness of smallholder dairy cows in Kenya, *East African Journal of Science Technology and Innovation*, 1 (1): 11-26.
36. Kathambi Emily Kiugu, **George Karuoya Gitau**, Muchemi Gerald Mwangi, John VanLeeuwen and Salome Wanyoike (**October 2019**). Sero-prevalence of Bovine Leukosis virus infection in contrasting farming systems in Kenya, *Ethiopian Veterinary Journal*, 23 (1), 12-23.
37. Emily K. Kathambi, John A. VanLeeuwen, **George K. Gitau** and Collins Kamunde (**September 2019**). Risk factors associated with cow lying time, stall and cow cleanliness in smallholder dairy farms in Kenya. *Veterinary World*, 12(7): 1085-1092.
38. Florence Maina, John Mburu, **George Gitau** and John Vanleeuwen (**August 2019**). Factors influencing economic efficiency of milk production among small-scale dairy farms in Mukurweini, Nyeri County, Kenya, *Tropical Animal Health and Production*, 52 (2), 1-7. [10.1007/s11250-019-02039-1](https://doi.org/10.1007/s11250-019-02039-1).
39. Shauna Richards, John Vanleeuwen, Shepelo Getrude Peter, Jeff Wichtel, Collins Kamunde, Fabienne Uehlingere, **George Gitau** (**June 2019**). Impact of mineral feeding on reproductive

- efficiency on smallholder dairy farms in Kenya, *Livestock Research for Rural Development*, 31 (6) 2019, <http://www.lrrd.org/public-lrrd/proofs/lrrd3106/srich31080.html>.
40. Esther Kamau, Juliette Ongus, **George Gitau**, Tura Galgalo, Sara Lowther, Austine Bitek and Peninah Munyua (2019). Knowledge and practices regarding Middle East Respiratory Syndrome Coronavirus among camel handlers in a Slaughterhouse, Kenya, 2015. *Zoonoses Public Health*. **2019**; 66: 169-173. <https://doi.org/10.1111/zph.12524>.
  41. Dennis Makau, John Vanleeuwen, **George Gitau**, Joan Muraya, Shawn McKenna, Colleen Walton and Jeffrey Wichtel (2018). Animal and management factors associated with weight gain in dairy calves and heifers on smallholder dairy farms in Kenya, *Preventive Veterinary Medicine*, 161: 60-68.
  42. D. N. Makau, J. A. VanLeeuwen, **G. K. Gitau**, J. Muraya, S. L. McKenna, C. Walton and J. Wichtel, (2018). Effectiveness of using cellphone technology as a dairy management training tool for smallholder dairy farms in Kenya; *Livestock Research for Rural Development*, 30 (11), 195; <http://www.lrrd.org/lrrd30/11/dennm30195.html>
  43. Muthuma E.N., Aboge G.O., and **Gitau G. K.** (2018). Antimicrobial usage in broiler farms in, peri-urban, Nairobi, Kenya. *American Journal of Research Communication* 6 (11).
  44. J. Muraya, J. Vanleeuwen, **G. Gitau**, J. Wichtel, D. Makau, B. Crane, S. McKenna and V. Tsuma (2018). Cross-sectional study of productive and reproductive traits of dairy cattle in smallholder farms in Meru, Kenya, *Livestock Research for Rural Development*, 30 (10), <http://www.lrrd.org/lrrd30/10/jmura30171.html>.
  45. Muasya D. W., **Gitau G. K.**, Thaiyah A. G., Gakuya D. W., Vanleeuwen J. and Mbatha P (2018). Prevalence of Bovine Tuberculosis (BTB) in Cattle Using Antibody ELISA in Seven Counties of Kenya, *Tanzania Veterinary Journal*, 33 (1): 2-9.
  46. J. Ogola, E. M. Fèvre, **G. K. Gitau**, R. Christley, G. Muchemi, W. A. de Glanville (2018). The topology of farm contacts in a mixed farming production system in western Kenya: implications for disease transmission. *Preventive Veterinary Medicine*, 158:43-50. <https://doi.org/10.1016/j.prevetmed.2018.06.010>.
  47. Kathambi Emily Kiugu, John VanLeeuwen, **George Karuoya Gitau**, and Shawn McKenna (2018). Cross-sectional study of the welfare of calves raised in smallholder dairy farms in Meru, Kenya, 2017, *Veterinary World*, 11(8): 1094-1101.
  48. Maina Florence, Mburu John, **Gitau George**, Vanleeuwen John and Negusse Yigzaw (2018). Economic efficiency of milk production among small-scale dairy farmers in Mukurweini, Nyeri County, Kenya. *Journal of Development and Agricultural Economics*, Vol. 10 (5), pp. 152-158.



49. Mbindyo SN, **GK Gitau**, CM Mulei and SW Mbugua, (2017). Associations of kennel management practices with morbidity and mortality of adult dogs in Kenya. *International Journal of Veterinary Science*, 6(3): 153-158. [www.ijvets.com](http://www.ijvets.com).
50. Toroitich K.C, **Gitau G K**, Kitala P M and Gitao G C., (2017). The prevalence and causes of mastitis in lactating traditionally managed one-humped camels (*Camelus dromedarius*) in West Pokot County, Kenya. *Livestock Research for Rural Development Volume 29, Article #62*. Retrieved April 3, 2017, from <http://www.lrrd.org/lrrd29/4/gita29062.html>
51. Dennis Makau, **George Gitau**, Gerald Muchemi, Lian Thomas, Annie Cook, Nicola Wardrop, Eric Fèvre and William Glanville (2017). Environmental predictors of bovine *Eimeria* infection in western Kenya. *Tropical Animal Health and Production*, 49:409–416 (DOI 10.1007/s11250-016-1209-0).
52. Muthuma E.N., **Gitau G. K.**, and Aboge G.O., (2016). Antimicrobial usage in broiler farms in, peri-urban, Nairobi, Kenya. *American Journal of Research Communication* 48 (8).
53. Mbindyo SN, **GK Gitau**, CM Mulei and SW Mbugua, (2016). Etiological factors associated with disease morbidity and mortality of adult dogs among kennels in Nairobi, Kenya. *International Journal of Veterinary Science*, 5(3): 164-170.[www.ijvets.com](http://www.ijvets.com)
54. Getrude Shepelo Peter, **George K. Gitau**, Shauna Richards, John Vanleeuwen, Fabienne Uehlinger, Charles Matiku Mulei and Kibet R.R. (2016). Risk factors associated with *Cryptosporidia*, *Eimeria* and diarrhea in smallholder dairy farms in Mukurwe-ini Sub-County, Nyeri County-Kenya. *Veterinary World* 9 (8): 811-819.
55. Richards, S., VanLeeuwen, J., Shepelo, G., **Gitau, G.K.**, Kamunde, C., Uehlinger, F., and Wichtel, J. Randomized clinical trial on impacts of dairy meal feeding interventions on early lactation milk production in smallholder dairy farms of Central Kenya. *Preventive Veterinary Medicine* (2016), 125: 46-53.
56. A.K. Matole, **G. K. Gitau**, J.C. Kiptoon and D. W. Gakuya. Factors Associated with Puppy Morbidity and Mortality among the Breeding Kennels in Nairobi and its Environs in Kenya. *Jacobs Journal of Veterinary Science and Research* (2015), 1(4): 023.
57. A.K. Matole, **G. K. Gitau**, J.C. Kiptoon and D. W. Gakuya. Prevalence of puppy morbidity and mortality among breeding kennels in Nairobi, Kenya. *Jacobs Journal of Veterinary Science and Research* (2015), 1(4): 019.
58. Getrude Shepelo Peter, **George Karuoya Gitau**, Charles Matiku Mulei, John Vanleeuwen, Shauna Richards, Jeff Wichtel, Fabienne Uehlinger, and Omwando Mainga. Prevalence of *Cryptosporidia*, *Eimeria*, *Giardia*, and *Strongyloides* in pre-weaned calves on smallholder dairy farms in Mukurwe-ini district, Kenya. *Veterinary World* (2015), 8(9): 1118-1125.

59. Richards, S., VanLeeuwen, J., Shepelo, G., **Gitau, G.K.**, Kamunde, C., Uehlinger, F., and Wichtel, J. Association of Farm Management Practices with Yearly Milk Sales on Smallholder Dairy Farms in Kenya. *Veterinary World* (2015), 8(1): 88-96.
60. S. W. Kairu-Wanyoike, S. Kaitibie, N. M. Taylor, **G.K. Gitau**, C. Heffernan, C. Schnier, H. Kiara, E. Taracha and D. McKeever. Willingness to Pay for Contagious Bovine Pleuropneumonia Vaccination in Narok South District of Kenya, *Preventive Veterinary Medicine* (2014), 115 (3): 130-142.
61. S. W. Wanyoike, H. Kiara, C. Heffernan, S. Kaitibie, **G. K. Gitau**, D. McKeever and N. M Taylor. Control of Contagious Bovine Pleuropneumonia: Knowledge, Attitudes, Perceptions and Practices in Narok District of Kenya. *Preventive Veterinary Medicine*, (2014), 115 (3): 143-156.
62. **Gitau, G.K.**, Bundi, R.M., Vanleeuwen, J. and Mulei, C.M. Mastitogenic bacteria isolated from dairy cows in Kenya and their antimicrobial sensitivity. *Journal of the South African Veterinary Association* (2014) 85 (1), 8 pages. doi: 10.4102/jsava.v85i1.950.
63. Kabaka W.M., **Gitau G.K.**, Kitala P.M., Maingi N., and Vanleeuwen J. The prevalence of gastrointestinal nematode infection and their impact on cattle in Nakuru and Mukurweini Districts of Kenya. *Ethiopian Veterinary Journal*, (2013) 17 (1): 95-104.
64. S. W. Kairu-Wanyoike, S. Kaitibie, N. M. Taylor, **G.K. Gitau**, C. Heffernan, C. Schnier, H. Kiara, E. Taracha and D. McKeever. Exploring Farmer Preferences for Contagious Bovine Pleuropneumonia Vaccination in Kenya. *Preventive Veterinary Medicine*, (2013) 110, (3-4): 356-369.
65. **G. K. Gitau**, R. M. Bundi, J. Vanleeuwen and C. M. Mulei. Evaluation of petrifilms as a diagnostic test to detect bovine mastitis organisms in Kenya. *Tropical Animal Health and Production*, (2013), 45: (3), 883-886 (DOI: 10.1007/s11250-012-0286-y).
66. Kabaka W.M., **Gitau G.K.**, Kitala P.M., Maingi N., and Vanleeuwen J. Risk factors associated with gastrointestinal nematode infections of cattle in Nakuru and Mukurweini Districts of Kenya. *Bulletin of Animal Health and Production in Africa* (2012) 60, 413-419.
67. Kabaka W.M., **Gitau G.K.**, Kitala P.M., Maingi N., and Vanleeuwen J. The Efficacy of Albendazole and Moxidectin in the control of nematode infection in dairy cattle in Nakuru and Mukurweini Districts of Kenya. *Bulletin of Animal Health and Production in Africa* (2012) 60, 393-397.
68. S.K. Karimi, J.J. McDermott, **G.K. Gitau**, B. McDermott, J.M. Gathuma and R.N. Kinuthia. Genetic, environment and other factors average daily weight gain of calves in the southern rangelands of Kenya. *Kenya Science, Technology and Innovation Journal* (2012) 3: 9-15.

69. W. Kabaka, **G. K. Gitau**, J. Mariner and N. Abudiku. The use of participatory epidemiology to determine the prevalence rate and economic impacts of PPR and CCPP in Turkana County of Kenya. *Bulletin of Animal Health and Production in Africa* (2012) 60, (3) 241-250.
70. Abuom T.O., Njenga, M.J., Wabacha J.K., Tsuma V.T. and **Gitau G.K.** Incidence and risk factors of periparturient conditions in smallholder dairy cattle herds in Kikuyu Division of Kiambu District, Kenya. *Ethiopian Veterinary Journal* (2012), 16 (2): 85-102.
71. Maloba F., Kagira J.M., **Gitau G.**, Ombui J., Hau J. and Ngotho M. Astrocytosis as a biomarker for late-stage human African trypanosomiasis in the vervet monkey model. *Scientia Parasitologica* (2011) 12 (2): 53-59.
72. **Gitau, G.K.**, Wabacha, J.K., Mulei, C.M., Ndurumo, and S. J. Nduhiu. Isolation Rates and Antimicrobial Sensitivity Patterns of Bovine Mastitis Pathogens in Peri-Urban Area of Nairobi, Kabete, Kenya. *Ethiopian Veterinary Journal* (2011) 15 (1): 1-15.
73. M.W. Maichomo, **G.K. Gitau**, J.M. Gathuma, J.M. Ndung'u and W.O. Kosura. Prevalence of trypanosomosis, helminthosis, anaplasmosis, babesiosis and ECF infections in cattle in an agro-pastoral production system in Kenya. *Bulletin of Animal Health and Production in Africa* (2010) 58 (1): 11-21.
74. **G.K. Gitau**, J.W. Aleri, P.G. Mbuthia and C.M. Mulei. Causes of calf mortality in Peri-Urban area of Nairobi, Kenya. *Tropical Animal Health and Production*. (2010): 42:1643-1647.
75. Thaiya A.G., Gitau, P., **Gitau, G.K.** and Nyaga, P.N. Bovine papillomatosis and its management with an Autogenous Virus Vaccine in Kiambu District, Kenya. *Kenya Veterinarian* (2009) 33 (1): 16-22.
76. **Gitau G.K.** et al. Dryland Livestock Wildlife Environment Interface Project: Experiences and lessons learnt from Livestock-Wildlife Environment Interface Management in Kenya and Burkina Faso. [www.gefweb.org/uploadedFiles/Focal\\_Areas/Land/livestock-wildlife.pdf](http://www.gefweb.org/uploadedFiles/Focal_Areas/Land/livestock-wildlife.pdf). September 2009.
77. Maichomo M W, Kosura, W.O., Gathuma J M, **Gitau G K**, Ndung'u J. M., and Nyamwaro, S. O. Economic assessment of the performance of trypanotolerant orma/zebu cross cattle in a pastoral production system in Kenya. *Journal of South African Veterinary Association* (2009) 80(3): 157-162.
78. Maichomo, M. W., **Gitau, G. K.**, Gathuma, J. M., Ndung'u, J. M., Kosura, W. O. Factors associated with adaptation and performance of trypanotolerant orma boran bulls in Kajiado district, Kenya. *Bulletin of Animal Health and Production in Africa* (2009) 57(1):39-52.
79. Maichomo, M. W., **Gitau, G. K.**, Gathuma, J. M., Ndung'u, J. M., Kosura, W. O., Nyamwaro, S. O. Comparative returns from livestock and crops among the agro-

- pastoralists of Magadi division, Kajiado District, Kenya. *Bulletin of Animal Health and Production in Africa* (2009) 57(1): 61-72.
80. Njanja J C, Gathuma J M, **Gitau G K**, Njeruh F M, Ngugi R. K. Measures of Health and Production in Preweaned Kids in Pastoral Herds in Northern Kenya. *Bulletin of Animal Health and Production in Africa* (2008) 56: 78-89.
  81. Maichomo M W, **Gitau G K**, Gathuma J M, Ndung'u J M, Kosura O and Olivier H O., 2008 Extent and implications of incorrect offspring-sire relationships in pastoral production system in Kajiado District, Kenya. *Livestock Research for Rural Development*. Volume 20, Article # 80. Retrieved May 14, 2008, from <http://www.cipav.org.co/lrrd/lrrd20/5/maic20080.html>
  82. Karimi S.K., **Gitau G.K.**, McDermott J., McDermott B., Gathuma J.M. and Kinuthia R.N. Causes of calf mortality and morbidity in Maasai herds in Kajiado District, Kenya. *East African Agricultural Forage Journal*. (2008) 74 (3) 187-194.
  83. E.G. Kiarie, L.W. Kabuage, **G.K. Gitau**, J.W. Wakhungu, J. Githure and C.M. Mutero. Description of livestock and their role in Mwea irrigation scheme. *Bulletin of Animal Health and Production in Africa* (2006) 54: 110-117.
  84. Karimi S.K., **G.K. Gitau**, J.J. McDermott, R.N. Kinuthia, J.M. Gathuma. Estimation of birth weight of Maasai Zebu calves and their crosses with Sahiwal and Boran in Kajiado District, Kenya. *Bulletin of Animal Health and Production in Africa* (2005) 53: 35-41.
  85. C.M. Mutero, C. Kabutha, V. Kimani, L. Kabuage, **G. Gitau**, J. Ssenyonga, J. Githure, L. Muthami, A. Kaida, L. Musyoka, E. Kiarie and M. Oganda. A transdisciplinary perspective of the links between malaria and agroecosystems in Kenya. *Acta Tropica* (2004) 89: 171-186.
  86. J.C. Njanja, J.M. Gathuma, **G.K. Gitau**, F.M. Njeru and R.N. Kinuthia. Pastoralists' perception of livestock production systems and opportunities for improvement in Southwestern Marsabit, Kenya. *Livestock Research for Rural Development* (2003) 15 (7): 1-16. <http://www.cipav.org.co/lrrd15/7/njan157.html>.
  87. **G. K. Gitau**, M. Waridi, H. A. Makame, M. M. Saleh, R. A. Muhamed, A.P. Mkola and M.A. Haji. Occurrence of high udder infection rates in dairy cows in Ungunja Island of Zanzibar, Tanzania. *The Journal of Applied Research in Veterinary Medicine* (2003) 1(1): 73-76.
  88. **G.K Gitau**, J.J. McDermott and B.D. Perry. Factors associated with *Theileria parva* infections in smallholder dairy farms in Murang'a District, Kenya. *Bulletin for Animal Health and Production in Africa* (2002) 50 (3): 186-193.

89. **G.K Gitau**, J.J. McDermott and B.D. Perry. Constraints to dairy heifer calf rearing in smallholder dairy farms in Murang'a District Kenya. *The Kenya Veterinarian* (2002) 25:36-39.
90. J. N. Kariuki, S. Tamminga, C.K. Gachui, **G. K. Gitau**, and J. M. K. Muia. Intake, DM degradation and rumen fermentation as affected by varying levels of desmodium and sweet potato vines in Napier grass fed to cattle. *South African Journal of Animal Science* (2001) 31(3): 149-157.
91. A.G. Thaiyah, **G.K. Gitau** and Mugambi. Outbreaks of bovine rabies in Kiambu District, Kenya. *The Kenya Veterinarian* (2001) 24: 1-2.
92. **G.K Gitau**, J.J. McDermott, B. McDermott and B.D. Perry. The impact of *Theileria parva* infections and other factors on calf mean daily weight gains in smallholder dairy farms in Murang'a District, Kenya. *Preventive Veterinary Medicine* (2001) 51: (3-4) 149-160.
93. **G.K Gitau**, J.J. McDermott, J.M. Katende, C.J. O'Callaghan, R. Brown and B.D. Perry. Differences in the epidemiology of theileriosis in contrasting agro-ecological and grazing strata of highland Kenya. *Epidemiology and Infection* (2000) 124: 325-335.
94. **G.K Gitau**, J.J., McDermott, B.D., Perry and J.M. Katende. The Epidemiology of *Theileria parva* infections on smallholder dairy farms in Kenya. Tropical Veterinary Diseases, control and prevention in the context of the new world order. *Annals of the New York Academy of Sciences*, (2000) 916: 265-270.
95. J.N. Kariuki, S. Tamminga, **G.K. Gitau**, C.K. Gachui and J.M.K. Muia. Performance of Sahiwal and Friesian heifers fed on Napier grass supplemented with graded levels of Lucerne. *South African Journal of Animal Science*, (1999) 29: 1-11.
96. J.N. Kariuki, **G.K. Gitau**, C.K. Gachui, S. Tamminga, and J.M.K. Muia. Effect of supplementing Napier grass with desmodium and Lucerne on DM, CP and NDF intake and weight gains in dairy heifers. *Livestock Production Science* (1999) 60: 81-88.
97. J.N. Kariuki, **G.K. Gitau**, C.K. Gachui, S. Tamminga and K.R.G. Irungu. Effect of maturity on the mineral composition of Napier grass (*Pennisetum purpureum*). *Tropical Science*, (1999) 39: 1-6.
98. **G.K Gitau**, B.D. Perry, J.J. and McDermott. The incidence, calf morbidity and mortality due to *Theileria parva* infections in smallholder dairy farms in Murang'a District, Kenya. *Preventive Veterinary Medicine*, (1999) 39: (1) 65-79.
99. J.K. Wabacha, **G.K. Gitau**, L.C. Bebor, C.O. Bwanga, Z.M. Wamuri and P.M.F. Mbithi. Occurrence of dermatomycosis (ringworm) due to *Trichophyton verrucosum* in dairy calves and its spread to animal attendants. *Journal of the South African Veterinary Association* (1998) 64 (4): 172-173.

100. J.N. Kariuki, C. K. Gachui, **G.K. Gitau**, S. Tamminga, J. Van Bruchem, J.M. K. Muia and K.R.G. Irungu. Effect of feeding Napier grass, Lucerne and sweet potato vines as sole diets to dairy heifers on nutrient intake, average weight gain and rumen degradation. *Livestock Production Science*, (1998) 55: 13-20.
101. J.K. Wabacha, **G.K. Gitau**, J.M. Nduhiu, A.G. Thaiya, P.M.F. Mbithi and S.J.M. Munyua. An outbreak of urticarial form of Swine Erysipelas in a medium scale piggery in Kiambu District, Kenya. *Journal of the South African Veterinary Association*. (1998) 69 (2): 61-63.
102. **G.K. Gitau**. A study of factors influencing endemic stability and instability to theileriosis and babesiosis on dairy production in Murang'a district, Kenya. Doctor of Philosophy Thesis, University of Nairobi, 1997.
103. **G.K. Gitau**, B.D. Perry, J.M. Katende, J.J. McDermott, S.P. Morzaria and A.S. Young. The prevalence of serum antibodies to tick-borne infections in cattle in smallholder dairy farms in Murang'a District, Kenya; a cross-sectional study. *Preventive Veterinary Medicine*, (1997) 30: 95-107.
104. G.V. Schaik, B.D. Perry, A.W. Mukhebi, **G.K. Gitau** and A.A. Dijkhuizen. An economic study of smallholder dairy farms in Murang'a District, Kenya. *Preventive Veterinary Medicine*. (1996) 29: 21-36.
105. D.I. Kariuki, **G.K. Gitau** and S.J.M. Munyua. The use of preserved colostrum in rearing of replacement dairy calves: calf performance, economics and on-farm practicability in Kenya. *Onderstepoort Journal of Veterinary Research*. (1995) 62 (3): 167-170.
106. C.M. Mulei, **G.K. Gitau** and P.G. Mbuthia. Causes of calf mortality in Kabete area Kenya. *Onderstepoort Journal of Veterinary Research*. (1995) 62 (3): 181-185.
107. **G.K. Gitau**, C.J. O'Callaghan, J.J. McDermott, A.O. Omore, P.A. Odima, C.M. Mulei and J.K. Kilungu. Description of cattle in smallholder dairy farms of Kiambu District, Kenya. *Preventive Veterinary Medicine*. (1994) 21: (2) 155-166.
108. **G.K. Gitau**, J.J. McDermott, D. Waltner-Toews, K.D. Lissemore, J.O. Osumo and D.Muriuki. Factors influencing calf morbidity and mortality in smallholder dairy farms of Kiambu District, Kenya. *Preventive Veterinary Medicine*. (1994) 21 (2): 167-178
109. **G.K. Gitau**, J.J. McDermott, D. Waltner-Toews, K.D. Lissemore, J.O. Osumo and D.Muriuki. Factors influencing calf morbidity and mortality in smallholder dairy farms of Kiambu District, Kenya. *Preventive Veterinary Medicine*. (1994) 21 (2): 167-178.
110. **G.K. Gitau**, J.J. McDermott, J.E. Adams, K.D. Lissemore and D. Waltner-Toews.

Factors influencing calf growth and daily weight gain in smallholder dairy farms of Kiambu District, Kenya. *Preventive Veterinary Medicine*, (1994) 21 (2): 179-190.

111. J.K. Wabacha, C.M. Mulei, **G.K. Gitau**, and A.G. Thaiyah. Antibiotic sensitivity of bacterial organisms isolated from eye swabs of cattle with infectious keratoconjunctivitis (pink eye) in Kenya. *Indian Journal of Animal Sciences*. (1994) 64 (7): 739-741.
112. C.M. Mulei and **G.K. Gitau**. Antibiotic sensitivity of aerobic bacterial organisms isolated from cows with postpartum vaginal discharges and their implications in therapy of uterine infections in Kenya. *Indian Veterinary Journal*, (1993) 70: 999-1002.
113. C.M. Mulei, E.R. Mutiga and **G.K. Gitau**. Retained fetal membranes in cattle: Relationship between bacterial isolates, blood picture and systemic involvement. *Indian Journal of Animal Sciences*. (1993) 63 (3): 235-238.
114. E.R. Mutiga, **G.K. Gitau** and S.J. Munyua. A study of blocked teats in small scale dairy farms. *Bulletin of Animal Health and Production in Africa*. (1992) 40: 73-76.
115. **G.K. Gitau**. Health and productivity of calves in smallholder dairy farms in Kiambu District, Kenya. Master of Science Thesis, University of Guelph, December 1992.
116. **G.K. Gitau**. Occurrence of *Trypanosoma congolense* in a herd of camels in Kenya. *Kenya Veterinarian* (1991) 15: 36-37.

## PAPERS PRESENTED IN SCIENTIFIC CONFERENCES

1. Muasya DW, VanLeeuwen J, **Gitau GK**, Heider LC, McKenna SL. Benefits of a multivalent vaccine including a Bovine Viral Diarrhea Virus component in a randomized controlled trial on smallholder dairy farms in Kenya, 17<sup>th</sup> *International Society for Veterinary Epidemiology and Economics (ISVEE)* conference, 11-15<sup>th</sup> November 2024, Sydney Australia.
2. N'gang'a EK, VanLeeuwen J, **Gitau GK**, McKenna SL, Heider LC, Keefe GK. Investigating compliance with cow comfort and mastitis control recommendations on mastitis outcomes in smallholder dairy farms in central Kenya, 17<sup>th</sup> *International Society for Veterinary Epidemiology and Economics (ISVEE)* conference, 11-15<sup>th</sup> November 2024, Sydney Australia.
3. Ngetich W, **Gitau GK**, Abuom TO. Aboge GO, Muasya DW., Sero-prevalence and risk factors associated with *Theileria parva* infection among calves in Narok County, Kenya, 57<sup>th</sup> Annual Scientific Conference, Kenya Veterinary Association, Isiolo, 24<sup>th</sup> – 26<sup>th</sup> **April 2024**.

4. **George K. Gitau.** SPS data requirements and databases, AGRODEP Sanitary and phytosanitary (SPS) network, Training Workshop, Hilton Garden Inn, Gaborone, Botswana, **May 16-17, 2024.**
5. Kibet N.C, **Gitau G.K.**, Shepelo G. P., Muasya D.W., and Ngetich W., Seroprevalence of *Babesia bigemina* and *Anaplasma marginale* infections and their associated risk factors among calves in Narok County, Kenya, 1st Annual Scientific Conference of the Faculty of Veterinary Medicine, **October 25-28, 2023.**
6. Ngetich W, **Gitau GK**, Abuom TO. Aboge GO, Muasya DW., Sero-prevalence and risk factors associated with *Theileria parva* infection among calves in Narok County, Kenya 1st Annual Scientific Conference of the Faculty of Veterinary Medicine, **October 25-28, 2023.**
7. Ngetich W, **Gitau GK**, Abuom TO. Aboge GO, Muasya DW. Description of cattle production systems in different agro-ecological zones of Narok County, Kenya, 1<sup>st</sup> Annual Scientific Conference of the Faculty of Veterinary Medicine Scientific, **October 25-28, 2023**, Kabete, Kenya.
8. Muasya DW, VanLeeuwen J, **Gitau GK**, Heider LC, McKenna SL. The benefits of a multivalent Bovine Viral Diarrhoea Virus component in a randomized controlled trial on smallholder dairy farms in Meru. 57<sup>th</sup> Annual Scientific Conference, Kenya Veterinary Association, Naivasha, 26<sup>th</sup> – 28<sup>th</sup> **April 2023.**
9. N'gang'a EK, VanLeeuwen J, **Gitau GK**, McKenna SL, Heider LC, Keefe GK and Muasya DW. Investigating compliance with cow comfort and mastitis control recommendations and their subclinical mastitis outcomes on smallholder dairy farms in Central Kenya. 57<sup>th</sup> Annual Scientific Conference, Kenya Veterinary Association, Naivasha, 26<sup>th</sup> – 28<sup>th</sup> **April 2023.**
10. Jane W. Wachira, Michael Muthamia Kiraithe, Mathew Nzioka, Jones Mutua, Alex Sabuni and **George Gitau.** Evaluation of the Safety & Efficacy of Oil-Based Adjuvants for Production of FMD Vaccine. 57<sup>th</sup> Annual Scientific Conference, Kenya Veterinary Association, Naivasha, 26<sup>th</sup> – 28<sup>th</sup> **April 2023.**
11. Sang RK, **Gitau GK**, van Leeuwen JA. Effectiveness of dry cow therapy and/or internal teat sealant on existing infections in smallholder dairy farms in Kenya. 56<sup>th</sup> Annual Scientific Conference, Kenya Veterinary Association, Naivasha, 27<sup>th</sup> – 29<sup>th</sup> **April 2022.**
12. Kipyego Serem, **George Gitau**, John Vanleeuwen, Peter Kimeli, Okumu Abuom, Daniel Gakuya, Joan Muraya, Dennis Makau. Sero-prevalence and risk factors of infectious bovine rhinotracheitis virus (type 1) in Meru County, Kenya. 56<sup>th</sup> Annual Scientific Conference, Kenya Veterinary Association, Naivasha, 27<sup>th</sup> – 29<sup>th</sup> **April 2022.**
13. Muasya DW, VanLeeuwen J, **Gitau GK**, Heider LC, McKenna SL, (2022). Disease among vaccinates and non-vaccinates after a single injection of multivalent Bovine Viral Diarrhoea



Virus modified live vaccine on smallholder dairy farms in Meru. 56<sup>th</sup> Annual Scientific Conference, Kenya Veterinary Association, Naivasha, 27<sup>th</sup> – 29<sup>th</sup> **April 2022**.

14. Muasya DW, VanLeeuwen J, **Gitau GK**, Heider LC, McKenna SL, (2022). Response to a single dose of modified live vaccine and associated factors in Smallholder Dairy Cattle. 56<sup>th</sup> Annual Scientific Conference, Kenya Veterinary Association, Naivasha, 27<sup>th</sup> – 29<sup>th</sup> **April 2022**.
15. Edward Kariuki N, John Vanleeuwen and **George Gitau** (2022). Assessment of compliance with and impact of cow comfort recommendations in SDFS in Kenya, (2022). 56<sup>th</sup> Annual Scientific Conference, Kenya Veterinary Association, Naivasha, 27<sup>th</sup> – 29<sup>th</sup> **April 2022**.
16. Kimeli P., VanLeeuwen J., **Gitau G.K.**, Heider C.L., McKenna L.S., Greenwood J.S. (2021). Use of accelerometers to evaluate welfare in heifer calves on Kenyan smallholder farms. In proceedings of 55th Kenya Veterinary Association Annual Scientific Conference held on **Sept 27th-28th, 2021** at the Sandies Tropical Village (Planhotel) in Malindi, Kenya.
17. Kimeli P., VanLeeuwen J., **Gitau G.K.**, Heider C.L., McKenna L.S., Greenwood J.S. (2021). Determining time-to-onset and fecal egg/oocyst counts of gastrointestinal parasites in heifer calves on Kenyan smallholder farms. In proceedings of 55th Kenya Veterinary Association Annual Scientific Conference held on **Sept 27th-28th, 2021** at the Sandies Tropical Village (Planhotel) in Malindi, Kenya.
18. P. Kimeli, J. VanLeeuwen, **G.K. Gitau**, L.C. Heider, S. McKenna, S. Greenwood, (2020). Evaluation of environmental and comfort enrichment on lying behaviours in heifer calves on smallholder dairy farms, 101st Conference of Research Workers in Animal Diseases, Online Conference, **December 5th-8th, 2020**.
19. P. Kimeli, J. VanLeeuwen, **G.K. Gitau**, L.C. Heider, S. McKenna, S. Greenwood, (2020). Effects of housing improvements on the growth of heifer calves on Kenyan smallholder dairy farms, 101st Conference of Research Workers in Animal Diseases, Online Conference, **December 5th-8th, 2020**.
20. DN Makau, JA VanLeeuwen, **GK Gitau**, SL McKenna, J Muraya, C Walton, JJ Wichtel. Livelihood impacts of Calliandra calothyrsus and Sesbania sesban: An agroforestry model in smallholder dairy farms in Kenya, The Savannah Institute Perennial Gathering, Dubuque, Iowa **December 2019**, DOI: 10.13140/RG.2.2.10747.46881
21. DN Makau, JA VanLeeuwen, **GK Gitau**, SL McKenna, J Muraya, C Walton, JJ Wichtel. Effects from Calliandra and Sesbania supplementation (leguminous shrubs) on milk production in dairy cattle. The 100th Annual Conference of Research Workers in Animal Diseases (CRWAD), **November 2-5, 2019**, Chicago Marriott, Downtown Magnificent Mile, Chicago, Illinois.

22. Kathambi E.K., Vanleeuwen J.A., **Gitau G.K.**, Cross-sectional study of cow comfort and risk factors of lying behavior and cleanliness of smallholder dairy cows in Kenya. *International Society for Veterinary Epidemiology and Economics (ISVEE)* conference, Thailand, **November 2018**.
23. Muraya J, Vanleeuwen J.A, **Gitau G.K.**, Makau D, Wichtel J.J., Crane M.B, McKenna S.L. Cross-sectional study of productive and reproductive traits of dairy cattle on smallholder dairy farms in Meru, Kenya. *International Society for Veterinary Epidemiology and Economics* conference, Thailand, **November 2018**.
24. Makau D, Vanleeuwen J.A., **Gitau G.K.**, Muraya J, McKenna S.L., Wichtel J.J., Walton C. Management factors associated with weight gain in dairy calves/heifers on smallholder dairy farms in Kenya. *International Society for Veterinary Epidemiology and Economics* conference, Thailand, **November 2018**.
25. Kathambi E.K., **Gitau G.K.**, Muchemi G.M., VanLeeuwen J., and Kairu-Wanyoike S., (2018). Sero-prevalence of bovine leukosis infection in contrasting farming systems in Kenya, 52<sup>nd</sup> Annual Scientific Conference, Kenya Veterinary Association, Nyeri, 25<sup>th</sup> – 27<sup>th</sup> **April 2018**.
26. Kathambi E.K., VanLeeuwen J. **Gitau G.K.**, (2018). Cross-sectional study of welfare of calves kept in dairy farms in the Meru region of Kenya, 2017. 52<sup>nd</sup> Annual Scientific Conference, Kenya Veterinary Association, Nyeri, 25<sup>th</sup> – 27<sup>th</sup> **April 2018**.
27. Muraya J., **Gitau G.K.**, Vanleeuwen J., Welchel J., McKenna S., Makau S.N., and Tsuma V.T. (2018). Seroepidemiology of *Bovine Neospora* and *Bovine Viral Diarrhoea Virus* in cows in Meru area in Kenya. 52<sup>nd</sup> Annual Scientific Conference, Kenya Veterinary Association, Nyeri, 25<sup>th</sup> – 27<sup>th</sup> **April 2018**.
28. Muraya J., **Gitau G.K.**, Vanleeuwen J., Welchel J., McKenna S., Makau S.N., and Tsuma V.T. (2018). Performance of dairy cattle in smallholder farms in Meru, Kenya. 52<sup>nd</sup> Annual Scientific Conference, Kenya Veterinary Association, Nyeri, 25<sup>th</sup> – 27<sup>th</sup> **April 2018**.
29. Makau D, VanLeeuwen JA, **Gitau GK**, McKenna SL, Walton C, Wichtel JJ, (2018). Animal and management factors associated with weight gain in dairy calves/heifers on smallholder dairy farms in Kenya. 52<sup>nd</sup> Annual Scientific Conference, Kenya Veterinary Association, Nyeri, 25<sup>th</sup> – 27<sup>th</sup> April 2018.
30. N. W. Nyaga, **G.K. Gitau**, P.K. Kitala, , W Glan-Ville4, and E. Ferve , Atlas of Helminth Infections In Ruminants In Kenya The 5<sup>th</sup> Medical and Veterinary Viral Research (MVVR) Symposium, 7<sup>th</sup>-8<sup>th</sup> December **2017**, The Boma Hotel, Nairobi, Kenya.

31. D.W. Muasya, **G.K. Gitau**, A.G. Thaiyah, D.W. Gakuya, J. Vanleeuwen, and P. Mbatha. Estimation of Bovine Tuberculosis (BTB) Prevalence Using Antibody ELISA in Kenya, Regional Conference on Zoonotic Diseases 2015, Naivasha, Kenya, 8<sup>th</sup> -13<sup>th</sup> March **2015**.
32. D. Makau, **G.K. Gitau**, Muchemi and E. Ferve. Prevalence and spatial epidemiology of bovine coccidiosis and associated factors in Busia, Bungoma and Siaya Counties, Kenya. 9th Biennial Scientific Conference, Faculty of Veterinary Medicine, University of Nairobi, Kabete, Nairobi, Kenya, 3rd-5th September **2014**.
33. A retrospective study on isolation and antimicrobial sensitivity trends of mastitis causing pathogens in bovine and goats in Kabete, Kenya. 9th Biennial Scientific Conference, Faculty of Veterinary Medicine, University of Nairobi, Kabete, Nairobi, Kenya, 3<sup>rd</sup>-5<sup>th</sup> September **2014**.
34. G.P. Shepelo, **G.K. Gitau**, CM. Mulei and J. Vanleeuwen. Characteristics of calf rearing systems and their impact on calf health in smallholder farms in Mukurweini District-Kenya. Theme: Sowing innovations for sustainable food and nutrition security in Africa, 11<sup>th</sup> African Crop Science Society Conference, 13<sup>th</sup> - 17<sup>th</sup> October, **2013**. Imperial Botanical Beach Hotel, Entebbe-Uganda.
35. K.C. Toroitich, **G.K. Gitau**, P.M. Kitala and G.C. Gitao. Occurrence of mastitis and associated factors in one-humped camels in West Pokot County, Kenya. Theme: Sowing innovations for sustainable food and nutrition security in Africa, 11<sup>th</sup> African Crop Science Society Conference, 13<sup>th</sup> – 17<sup>th</sup> October, **2013**. Imperial Botanical Beach Hotel, Entebbe-Uganda.
36. **G.K. Gitau**, R.M. Bundi, J. Vanleeuwen and C.M. Mulei. Application of petrifilms<sup>TM</sup> as a simple and cost-effective diagnostic test to detect bovine mastitis organisms in Kenya. Theme: Sowing innovations for sustainable food and nutrition security in Africa, 11<sup>th</sup> African Crop Science Society Conference, 13<sup>th</sup> – 17<sup>th</sup> **October, 2013**. Imperial Botanical Beach Hotel, Entebbe-Uganda.
37. Bundi R.M., **Gitau G.K.**, Vanleeuwen J. and Mulei C.M. The application of petrifilms<sup>TM</sup> for diagnosis of bovine mastitis in Kenya. *Kenya Veterinary Association Annual Scientific Conference*, Mombasa, Kenya, April 24<sup>th</sup> – 26<sup>th</sup> **2013**.
38. Muthiani, E N, J T Njoka, P I D Kinyua and **G K Gitau**. Conservation or Degradation: Application of remote sensing and GIS to determine effects of Community Wildlife Sanctuaries on land cover in pastoral areas. Biennial conference of the Faculty of Agriculture, College of Agriculture and Veterinary Sciences, University of Nairobi. **26<sup>th</sup> – 28<sup>th</sup> September 2011**.
39. **G.K. Gitau**, J.W. Aleri, P.G. Mbutia and C.M. Mulei. Causes of calf mortality in Peri-Urban area of Nairobi, Kenya. *7<sup>th</sup> Biennial Scientific Conference, Faculty of Veterinary medicine, University of Nairobi*, Kabete, Nairobi, Kenya, **8<sup>th</sup>-10<sup>th</sup> September 2010**.

40. Kairu-Wanyoike, S. W., Kaitibie, S., Taylor, N.M., Heffernan, C. and **Gitau, G.K.** Willingness to pay for CBPP vaccine and vaccination in Narok District of Kenya: An application of Conjoint Analysis-Contingent Valuation method (CJA-CVM). *7<sup>th</sup> Biennial Scientific Conference, Faculty of Veterinary Medicine, University of Nairobi, Kabete, Nairobi, Kenya, 8<sup>th</sup>-10<sup>th</sup> September 2010.*
41. Kairu-Wanyoike, S.W., Kaitibie, S., Taylor, N.M., Heffernan, C., **Gitau, G.K.** Application of Conjoint Experiment to Explore Farmer Preferences for Contagious Bovine Pleuropneumonia Vaccine and Vaccination Attributes in Narok District of Kenya. *7<sup>th</sup> Biennial Scientific Conference, Faculty of Veterinary Medicine, University of Nairobi, Kabete, Nairobi, Kenya, 8<sup>th</sup>-10<sup>th</sup> September 2010.*
42. Kairu-Wanyoike, S.W., Taylor, N.M., Heffernan, C., **Gitau, G.K.**, Kiara, H. An Estimation of the impact of Contagious Bovine Pleuropneumonia and its Control by Vaccination: A Case of Narok District of Kenya. *7<sup>th</sup> Biennial Scientific Conference, Faculty of Veterinary Medicine, University of Nairobi, Kabete, Nairobi, Kenya, 8<sup>th</sup>-10<sup>th</sup> September 2010.*
43. **Gitau, G.K.** A regional approach to manage livestock-wildlife interface in Kenya and Burkina Faso. *6<sup>th</sup> Biennial Scientific Conference, Faculty of Veterinary medicine, University of Nairobi, Kabete, Nairobi, Kenya, 17<sup>th</sup>-19<sup>th</sup> September 2008.*
44. Maichomo, M.W, Gathuma, J.M, **Gitau, G.K.**, Ndung'u, J.M, Kosura, O, Nyamwaro, S.O. (2007). Extent and implications of correct offspring-sire relationships in pastoral production system in Kajiado District, Kenya. *6<sup>th</sup> Biennial Scientific Conference, Faculty of Veterinary medicine, University of Nairobi, Kabete, Nairobi, Kenya, 17<sup>th</sup> -19<sup>th</sup> September 2008.*
45. Karimi S.K., **Gitau G.K.**, McDermott. J., McDermott B., Gathuma J.M. and Kinuthia R.N Risk factors for seroprevalence of tick-borne diseases of calves in Maasai pastoral herds in Kajiado District, Kenya Proceedings of Research Conference at Egerton University **2008.**
46. Njanja J. C., Gathuma J. M., **Gitau G. K.**, Njeruh F. M., Ngugi R. K. (2007) Sero-prevalence of non-tsetse transmitted *T. evansi* infections in preweaned camel calves in pastoral herds in northern Kenya. Presented at the 29<sup>th</sup> meeting of the International Scientific Council for Trypanosomiasis Research and Control (ISCTRC), Luanda, Angola, 1st–5th **October, 2007.**
47. Njanja J. C., Gathuma J. M., **Gitau G. K.**, Njeruh F. M., Ngugi R. K. (2007). Important diseases of camel calves and their impact on performance in pastoral herds Marsabit

- District. Proceeding of the 12<sup>th</sup> Kenya Camel Forum. The role of research and training in camel development. 14<sup>th</sup>–18<sup>th</sup> May 2007 pp 71-74.
48. Maichomo, M.W, Gathuma, J.M, **Gitau, G.K.**, Ndung'u, J.M, Kosura, O, Nyamwaro, S.O. (2007). Tradeoff between trypanosomosis control through trypanotolerance and breed size. Animal Production Symposium of Kenya, March 2007.
  49. **Gitau G.K. (2006)**. Dryland Livestock Wildlife Environment Interface Project (DLWEIP). Wildlife Disease Association Annual Regional Conference for Africa and the Middle East, Nanyuki Kenya, 19<sup>th</sup>-21<sup>st</sup> September 2006.
  50. **Gitau G.K. (2006)**. Dryland Livestock Wildlife Environment Interface Project (DLWEIP) in Kenya and Burkina Faso. Global Environment Facility (GEF) General Assembly, Cape Town South Africa, 26<sup>th</sup>-31<sup>st</sup> August 2006.
  51. Njanja J.C., Gathuma J.M., **Gitau G.K.**, Njeruh F.M., and Ngugi R.K., (2006). Measures of Health and Production in Preweaned Kids in Pastoral Herds in Northern Kenya. *Kenya Veterinary Association Annual Scientific Conference*, Mombasa, Kenya, April 28<sup>th</sup> – 30<sup>th</sup> 2006.
  52. **Gitau G.** A regional/community approach to conservation and development interventions at the livestock wildlife interface. In Osofky, S.A., Cleaveland, S., Karesh, W.B., Kock, M.D., Nyhus, P.J., Starr, L., and Yang, A. (Eds) (2005). Conservation and development interventions at the Wildlife/Livestock Interface: implications for Wildlife, Livestock and Human Health. IUCN, Gland, Switzerland and Cambridge. xxxiii 220pp.
  53. Njanja J. C., Gathuma J. M., **Gitau G. K.**, Njeruh F. M., Ngugi R. K. (2004). Characteristics of Southwestern Marsabit pastoral production system and prevailing constraints to youngstock health. In: Agricultural Research for Improved Productivity and Livelihoods. 9<sup>th</sup> *Biennial Scientific Conference, Kenya Agricultural Research Institute Scientific conference*, Nairobi, Kenya, 8<sup>th</sup> - 12<sup>th</sup> November 2004. pp 585-591.
  54. **Gitau G.K. (2004)**. AU-IBAR initiative on the Livestock Wildlife Environment Interface in Kenya and Burkina Faso. Launching of the Thematic Programme Network on the promotion of sustainable agricultural farming systems (TPN 6), Tunis, Tunisia, 22<sup>nd</sup> – 29<sup>th</sup> November 2004.
  55. Njanja J. C., Gathuma J. M., **Gitau G. K.**, Njeruh F. M., Ngugi R. K. (2007). Important diseases of camel calves and their impact on performance in pastoral herds Marsabit District. Proceeding of the 12<sup>th</sup> Kenya Camel Forum. The role of research and training in camel development. 14<sup>th</sup>–18<sup>th</sup> May 2007.

56. Karimi, S.K., McDermott, J.J., **Gitau, G.K.**, McDermott, B., Gathuma, J.M., Kinuthia, R.N., Katende, J.M., Morzaria, S.P. (2003) Risk factors for seroprevalence of tick-borne diseases of calves in maasai pastoral herds in Kajiado District, Kenya. *Proceedings of the 10th International Symposium on Veterinary Epidemiology and Economics (ISVEE)*, in Santiago, Chile 17-21 November 2003.
57. C.M. Diaz, S.C. Massawe, A. Clements, **G.K. Gitau**, H.K. Kiara, G.R. Muraguri, C.J. O'Callaghan, B.D. Perry (2003). Risk Mapping of East Coast fever in coastal and highland regions of Kenya based on predicted mortality and morbidity incidences. *Proceedings of the 10th International Symposium for Veterinary Epidemiology and Economics (ISVEE)*, Vina del Mar, Chile, 17-21 November 2003.
58. M.E. Eregae, J.M. Gathuma, **G.K. Gitau**, J.M. Mbaria, A. Cartley, D.T. Kaitho and M.O.K. Mochabo (2003). Community participation in estimation of income for private veterinary practice in a pastoral area in Turkana District, Kenya. *Kenya Veterinary Association Annual Scientific Conference*, Garissa, Kenya, April 23rd - 25th, 2003.
59. T.D. Kaitho, J.M. Gathuma, E.K. Kang'ethe, **G.K. Gitau**, A. Cartley, E.M. Eregae and M.O.K. Mochabo (2003). Use of participatory appraisal tools to develop contagious pleuropneumonia prevention and control strategies in Lapur Division, Turkana District, Kenya. *Kenya Veterinary Association Annual Scientific Conference*, Garissa, Kenya, April 23rd - 25th, 2003.
60. E. G. Kiarie, L.W. Kabuage, **G.K. Gitau**, J.W. Wakhungu, C.M. Mutero, and J. Githure (2002). A description of Livestock and their role in Mwea Irrigation scheme. *Biennial Scientific Conference, Faculty of Veterinary medicine, University of Nairobi*, Kabete, Nairobi, Kenya, 7<sup>th</sup> – 9<sup>th</sup> August 2002.
61. **G.K Gitau**, J.J. McDermott, J.M. Katende, C.J. O'Callaghan, R. Brown and B.D. Perry (2000). Differences in the epidemiology of theileriosis in contrasting agro-ecological and grazing strata of highland Kenya. *9th International Symposium on Veterinary Epidemiology and Economics*, Breckenridge, Colorado, USA, 6 - 11<sup>th</sup> August 2000.
62. **G.K Gitau**, J.J. McDermott and B.D. Perry, (2000). Constraints to dairy heifer calf rearing in smallholder dairy farms in Murang'a District, Kenya. *Kenya Veterinary Association Annual Scientific Conference*, Mombasa, Kenya, April 26th - 28th, 2000.
63. **G.K Gitau**, J.J. McDermott and B.D. Perry (2000). Factors associated with growth of dairy heifer calves in smallholder dairy farms in Murang'a District, Kenya. *Animal Production Society of Kenya Scientific Conference*, Nairobi, Kenya, March 22nd – 23rd, 2000.
64. **G.K Gitau**, J.J., McDermott, B.D., Perry and J.M. Katende (1999). The Epidemiology of *Theileria parva* infections on smallholder dairy farms in Kenya. 5<sup>th</sup> *Biennial Scientific*

*Conference for the Society for Tropical veterinary Medicine, Key West Florida, USA, 12<sup>th</sup>-16<sup>th</sup> June 1999.*

65. **G.K Gitau**, B.D. Perry, J.J. McDermott and Maribei J.M (1998). A longitudinal observational study to estimate the incidence of calf morbidity and mortality due to *Theileria parva* infections in smallholder dairy farms in Murang'a District, Kenya. *Biennial Scientific Conference, Faculty of Veterinary medicine, University of Nairobi*, Kabete, Nairobi, Kenya, 5<sup>th</sup>-7<sup>th</sup> August 1998. *Kenya Veterinarian*, 23: 15-17.
66. **G.K. Gitau**, B.D. Perry, J.J. McDermott, J.M. Katende and R.N. Brown (1998). Epidemiological states of theileriosis on smallholder dairy farms in contrasting agro-ecological zones in Murang'a District, Kenya. *Biennial Scientific Conference, Faculty of Veterinary medicine, University of Nairobi*, Kabete, Nairobi, Kenya, 5<sup>th</sup>-7<sup>th</sup> August 1998. *Kenya Veterinarian*, 23: 18-19.
67. J.K. Wabacha, **G.K. Gitau**, J.M. Nduhiu, A.G. Thaiya, P.M.F. Mbithi and S.J.M. Munyua (1998). An outbreak of urticarial form of swine erysipelas in a medium scale piggery in Kiambu District, Kenya. *Biennial Scientific Conference, Faculty of Veterinary Medicine, University of Nairobi*, Kabete, Nairobi, Kenya, 5<sup>th</sup>-7<sup>th</sup> August 1998. *Kenya Veterinarian*, 23: 95-97.
68. J.K. Kilungu, W. Oluoch-Kosura, J.J. McDermott and **G.K. Gitau** (1998). Economics of smallholder dairy production in Kiambu District, Kenya. *Biennial Scientific Conference, Faculty of Veterinary medicine, University of Nairobi*, Kabete, Nairobi, Kenya, 5<sup>th</sup>-7<sup>th</sup> August 1998. *Kenya Veterinarian*, 23: 133-135.
69. Kariuki, J.N., Tamminga, S., Gachuiiri, C.K., **Gitau, G.K.** and Muia, J.M.K. (1998). Feeding behaviour of Sahiwal and Friesian cattle under zero grazing in a tropical climate. In: Regulation of feed intake, *5th Zodiac symposium, Wageningen Agricultural University, The Netherlands*, 22-24th April, 1998: 24: 215-218.
70. **G.K. Gitau**, B.D. Perry, J.J. McDermott, J.M. Katende and J.M. Maribei (1997). Risk factors associated with *Theileria parva* infection in cattle in smallholder dairy farms in Murang'a District, Kenya; a longitudinal study. *Epidemiologie et Sante Animale, 8th International Symposium on Veterinary Epidemiology and Economics*, Paris, France, 8th - 11th July, 1997.
71. A.O. Omore, J.J. McDermott and **G.K. Gitau** (1996). Factors influencing production on smallholder dairy farms in Central Kenya. Focus on Agricultural research for sustainable development in a changing economic environment: *5th Kenya Agricultural Research Institute Scientific conference*, Edited by A.O. Fungoh and G.C.O Mbadi Nairobi, Kenya, 14th - 16th October 1996, pp 370-380.

72. **G.K. Gitau**, B.D. Perry, J.J. McDermott and J.M. Katende (1996). The prevalence of serum antibodies to tick-borne infections in cattle in smallholder dairy farms in Murang'a District, Kenya; a cross-sectional study. Focus on Agricultural research for sustainable development in a changing economic environment: *5th Kenya Agricultural Research Institute Scientific conference*, Edited by A.O. Fungoh and G.C.O Mbadi Nairobi, Kenya, 14th - 16th October 1996, pp 603-608.
73. G. van Schaik, B.D. Perry, A.W. Mukhebi, **G.K. Gitau** and A.A. Dijkhuizen (1995). An economic study of smallholder dairy farms in Murang'a District, Kenya. *8th International Conference of Institutions of Tropical Veterinary Medicine*, Berlin, Germany, 25th - 29th September 1995.
74. **G.K. Gitau**, J.J. McDermott and J.E. Adams (1994). The analysis of health and production data clustered by time or space using Generalised Estimating Equations. *Kenya Veterinarian*, 18 (2), 143-145. *7th International Symposium on Veterinary Epidemiology and Economics*, Nairobi, Kenya, 15th - 19th August 1994.
75. J.J. McDermott, **G.K. Gitau**, C.J. O'Callaghan, A.O. Omore, P.A. Odima, M.N. Kyule and J.K. Kilungo (1992). Field research project to assess health and production indices on Kenyan smallholder dairy farms. *Proceedings of an International seminar held in Yogyakarta, Indonesia*, 15-21 November 1992. pp 77-80.

## RESEARCH PROJECTS

---

### ONGOING

1. USAID Feed the Future Animal Health Innovation Lab for **Veterinary Vaccine Development Innovation Lab (VVDIL)**. Joint research project by University of Nairobi, Washington State University and International Livestock Research Institute, 5-year Grant worth **\$10m** from **August 2024 to August 2029**.
2. USAID Feed the Future **Animal Health Innovation Lab (AHIL)** for East Coast fever control. Joint research project by University of Nairobi, Washington State University and International Livestock Research Institute, 5-year Grant worth **\$6m** from **August 2020 to August 2025**.

### COMPLETED

1. Enhancing smallholder dairy feeding systems to improve productivity and mitigate climate change impacts in Malawi. Funded by the British Council/Australia Season. Collaborators: Professor John Tarlton, Prof. George K. Gitau, Dr. Amin Mugeru, Dr. Liveness Banda, Dr. Frederick Obese Yeboah, Dr. Fay Rola-Rubzen, Dr. Ambrose Kipyegon, Dr. Bettie Kawonga and Dr. Raphael Ayizanga, **November 2020-November 2021**.



2. Frequency and impacts of infection with Bovine Viral Diarrhea Virus (BVDV) and vaccine protection among dairy cows near Meru. Joint project University of Nairobi and University of Prince Edward. Funded by Canadian Queen Elizabeth II Diamond Jubilee Scholarships, *Starting May 2018 –April 2022.*
3. Smallholder dairy cooperatives in addressing sustainable development goals in in Malawi, World University Networks, University of Bristol, University of Western Australia, University of Nairobi, University of Ghana and Lilongwe University of Agriculture and Natural Resources, UK£26,000.00, *August 2019 –March 2020.*
4. Cohort and controlled trial studies of dairy calf welfare and its factors within smallholder zero-grazing farms in Kenya. Joint project University of Nairobi and University of Prince Edward. Funded by Sir James Dunn Animal Welfare Scholarships, *Starting May 2017 – January 2020.*
5. Integrating innovative research and research methods for improved sustainable livelihoods on small dairy farms. Joint project University of Nairobi, University of Prince Edward and Kenyatta University, Funded by Canadian Queen Elizabeth II Diamond Jubilee Scholarships, *Starting May 2015 –April 2019 Canadian 499,842.00.*
6. Social, financial, and environmental costs, benefits and interactions of enhanced cattle feeding by Kenyan smallholder dairy farm in Mukurweini District (2012/2013). Joint project application between University of Nairobi and University of Prince Edward Island, (Canadian \$60,000).
7. Socio-economic impact and spartial distribution of Rift Valley fever and its management capacity enhancement in eastern Africa (2009-2011). Philip N. Nyaga, Njenga Kariuki, Robinson H. Mdegela, **George K. Gitau**, Lucy W. Njagi, Joseph Erume and Jane W. Githinji, Funding (US \$60,000) from **RUFORUM**.
8. Impact of mastitis and helminthes on smallholder dairy farms in Mukurweini District in Nyeri. Joint project between University of Nairobi, University of Prince Edward and Kenyatta University (Canadian \$25,000)
9. The effect of trypanosomosis and helminthosis on productive performance in the Maasai Zebu/Orma Boran crossbred calves in Nguruman, Kenya (2003-2008). Drs. M.W. Maichomo, Prof. J.M. Gathuma, **Dr. G. K. Gitau**, Prof. W. Kosura and Dr. J.N. Ndungu, (Funding by **DFID/KETRI**).
10. Dryland Livestock Wildlife Environment Interface Project (DL-WEP) in Kenya (Laikipia and Samburu Districts) and Burkina Faso (Arli Province). Lead institution: African Union Interafrican Bureau for Animal Resources; collaborators; AWF, IUCN, ACC, OOP, MoLFD. Team leader and Coordinator **G.K. Gitau** (Sept 2005 – January 2007).

**(Funding by GEF/UNEP).**

11. A study of factors associated with morbidity, mortality and growth in camel calves, kids and lambs among the Rendille community of Marsabit District. Collaborators: Kenya Agricultural research Institute and University of Nairobi **(2000-2007)**. Dr. J.C. Njanja, Prof. J.M. Gathuma, **Dr. G.K. Gitau**, Dr. R.N. Kinuthia and Prof. F.N. Njeru. **Funded by EU/KARI ASAL Project.**
12. Agroecosystem management for community-based integrated malaria control in East African irrigation schemes **(2001-2003)**. Drs. C.M. Mutero, **G.K. Gitau**, L. Kabuage, Prof. V. Kimani and Ms. C. Kabutha. **ICIPE/IWMI/UON project, Funded by IDRC.**
13. A study of the factors influencing morbidity, mortality and productivity of calves among the Maasai pastoralists of Kajiado District Kenya. Collaborators: Kenya Agricultural research Institute and University of Nairobi **(1999-2006)**. S.M. Karimi, Prof. J.M. Gathuma, Drs. J.J. McDermott, **G.K. Gitau** and R. Kinuthia. **Funded by European Union/KARI ASAL Project.**
14. The potential and limitation of rearing replacement dairy heifers on Napier grass in the Kenyan Highlands. J.N. Kariuki, S. Tamminga, **G.K. Gitau** and C.K. Gachuiiri. Collaborators: Kenya Agricultural Research Institute, Kenya, Wageningen Agricultural University, The Netherlands and University of Nairobi, Kenya, **1994-1998.**
15. Quantitative assessment of the impact of endemic stability and instability of tick-borne diseases on dairy production (undertaken at the International Livestock Research Institute (ILRI), formally the International Laboratory for Research on Animal Diseases - ILRAD). **G.K. Gitau**, B.D. Perry, J.J. McDermott, J.M. Maribei and J.M. Katende, **1993-1998.**
16. A preliminary evaluation of the prevalence of infections of *Theileria* species in the salivary glands of field collected *Rhipicephalus appendiculatus* from Murang'a District, Kenya: **August - October 1995**; R. Brown, B.D. Perry, **G.K. Gitau** and S.P. Morzaria.
17. An economic study of smallholder dairy farms in Murang'a District of Kenya (jointly with ILRI (formally ILRAD) and Wageningen Agricultural University, The Netherlands: **September - December 1994**; G. Schaik, A.A. Dijkhuizen, B.D. Perry, A.W. Mukhebi and **G.K. Gitau.**
18. The use of stored colostrum in rearing of replacement dairy calves: the economics and on-farm practicability in Kenya: **March - June 1994**; D.I. Kariuki, **G.K. Gitau** and S.J.M. Munyua.
19. Field research project to assess health and production indices on smallholder dairy farms in Kiambu District in Central Highlands of Kenya. **G.K. Gitau**, C.J. O'Callaghan, J.J. McDermott, A.O. Omoro, P.A. Odima, M.N. Kyule and J.K. Kilungo, **July 1991 – June 1992.**

## GRADUATE STUDENT SUPERVISION

---

### ONGOING MSC STUDENTS

1. Feed analysis of *prosopis juliflora* and other feeds in Merti Sub-County Isiolo. Musya, Supervisors: Prof. Charles Gachuiiri, Prof. Joyce Maina and **Prof. George Gitau**

### COMPLETED MSC STUDENTS

1. Occurrence and risk factors for gastrointestinal parasites in Kajiado County, Kenya. Ms. Mooko Jeanette Kokhuthu, A56/41027/2021, Supervisors: **Prof Robinson Kinuthia, Prof. George K. Gitau** and Dr. Willy Edwin Mwangi (**August 2024**).
2. Prevalence of *Anaplasma* and *Babesia* infections in calves and their associated risk factors in Narok County, Kenya. Dr. Naomi Kibet, J56/41561/2021, Supervisors: **Prof. George K. Gitau** and Dr. Getrude P. Shepelo (**November 2023**).
3. The association between cow comfort and occurrence of mastitis Smallholder Dairy Farms in Meru, Kenya, **Dr. Edward Kariuki**, MSc student, University of Prince Edward, Canada. **Supervisors:** John VanLeeuwen, **George K. Gitau**, Greg Keefe and Dr Ann Muckle (**September 2023**).
4. Seroprevalence of Middle East Respiratory Syndrome Coronavirus in Camels at Athi River Slaughterhouse. Esther Muthoni Kamau, MSc, in Laboratory Management and Juliette R. Ongus and **Prof. George K. Gitau** (**March 2023**).
5. Prevalence of gastrointestinal parasites and associated factors among zebu calves in Isiolo county Kenya, Dr. Moses Irungu Gakuru, MVet Med Student, **Supervisors: Prof. George Gitau** and Dr. Kaunga Muthee (**February 2022**).
6. Sero-prevalence and risk factor associated with *Coxiella burnetii* isolated from cattle in the Mara Ecosystem in Narok, Kenya. Grace Angeline Wanjiku Watene, Master of Veterinary Public Health, University of Nairobi. **Supervisors:** Dr. Gabriel Aboge and **Prof. George K. Gitau** (**October 2021**).
7. Effectiveness of dry cow therapy in smallholder dairy farms in Kiambu County, Kenya. Dr. Ronald Sang, Master of Veterinary Medicine, Department of Clinical Studies, Faculty of Veterinary Medicine, University of Nairobi, Supervisors: **Prof. George K. Gitau** and Prof. John VanLeeuwen (**March 2021**).
8. The occurrence of Cystic Echinococcosis and molecular characterization from livestock in Isiolo, Garissa and Wajir Counties, Kenya, Hellen Akoth Omondi (BVM, University of Nairobi) MVPH student, Department of Public Health, Pharmacology and Toxicology,

University of Nairobi. Supervisors: Dr. Peter B. Gathura and **Prof. George Gitau**, (January 2021).

9. Application of Bismuth Subnitrate-ampiclox dry cow therapy in prevention of dairy cow mastitis in selected farms in Kenya. Wanjala Wavumbah, MVEE student, Department of Public Health, Pharmacology and Toxicology, University of Nairobi. Supervisors: Dr. Muchemi Gerald and **Prof. George Gitau**. (August 2020).
10. Seroprevalence of infectious bovine rhinotracheitis in the Naari sub-location of Meru County, Kenya. Essau Kipyego Serem, Master of Veterinary Medicine, Department of Clinical Studies, Faculty of Veterinary Medicine, University of Nairobi, Supervisors: **Prof. George K. Gitau**, Prof. Daniel W. Gakuya and Dr. Tequero Abuom. (December 2019).
11. Molecular detection and characterization of coronaviruses isolated from olive baboons, bats and rodents in Laikipia County, Kenya. Rimfa Amos Gambo. **MSc Wildlife Management, Department of Clinical Studies University of Nairobi** Supervisors: **Prof. George K. Gitau**, Dr. Joseph Kamau and Dr. Andrew Thaiyah. (April 2019).
12. Sero-prevalence of enzootic bovine leukosis in different livestock farming systems in Kenya. Dr. Emily Kathambi Kiugu, MVEE student, **Department of Public Health, Pharmacology and Toxicology, University of Nairobi** Supervisors: Dr. Gerald Muchemi and **Prof. George Gitau**. (July 2018).
13. Dairy calf welfare and its factors within smallholder zero-grazing farms in Meru, Kenya. Dr. Emily Kathambi Kiugu MSc student, University of Prince Edward, Canada. **Supervisors:** John VanLeeuwen, **George K. Gitau**, Shawn McKenna and Collins Kamunde. (June 2018).
14. Economic efficiency of milk production among small-scale dairy farmers in Mukurweini, Nyeri County, Kenya. Ms Maina Florence, **Department of Agricultural Economics, University of Nairobi** Supervisors: Mburu John, **Gitau George** and Vanleeuwen John. (March 2018).
15. Serological evidence of *Coxiella burnetii* antibodies in wild ruminants (gazelles and antelopes) and domestic ruminants (sheep and goats) at the livestock-wildlife corridor of Amboseli National Park Kenya. Bilha Njeri Nguro, **MSc Wildlife Health Management, Department of Clinical Studies University of Nairobi**. Supervisors: Dr A.G. Thaiyah and **Prof G.K. Gitau**. (Graduated December 2015).
16. A study of the spatial distribution of ruminant helminth infections in Kenya. Dr Nyaga Wanja Nalaria **Department of Public Health, Pharmacology and Toxicology, University of Nairobi** Supervisors: **Prof. George Gitau**, Prof. P.K. Kitala and Dr. Eric Ferve. (Graduated December 2015).
17. Assessment of antimicrobial usage and residues in broiler chicken from Njiru and Kasarani districts of Nairobi County. **Dr. Evans Ngunjiri Muthuma, Department of Public Health,**

**Pharmacology and Toxicology, University of Nairobi** Supervisors: Dr. Aboge G.O. and **Prof. Gitau G.K. (Graduated December 2015).**

18. Causes and factors associated with adult dog morbidity, mortality in breeding kennels in Nairobi County. Student: **Dr. Sharon Nthenya Mbindyo, MVet Medicine student, Department of Clinical Studies University of Nairobi** Supervisors: **Prof. George K. Gitau**, Prof. Charles M. Mulei and Prof. Susan M. Mbugua (**Graduated August 2015**).
19. A study on the sero-prevalence and factors associated with *Mycobacterium bovis* in Kenya. Student, **Dr. Daniel Muasya, MVet Medicine student, Department of Clinical Studies University of Nairobi** supervisors: **Prof. George K. Gitau**, Dr. Daniel W. Gakuya and Dr. Andrew G. Thaiyah (**Graduated August 2015**).
20. A study on farm contacts and implication for disease transmission in smallholder production in Bungoma County of western Kenya. Student Dr. Ogola Joseph Ganda, **Department of Public Health, Pharmacology and Toxicology, University of Nairobi** Supervisors: **Prof. George Gitau**, Dr. Gerald Muchemi and Dr. Eric Ferve (**Graduated August 2015**).
21. A study on the causes of puppy morbidity and mortality among dog breeders in Nairobi County and its environs. Student: Dr. Andrew Matole Konde, **MVet Medicine student, Department of Clinical Studies University of Nairobi** supervisors: **Prof. George K. Gitau**, Dr. Daniel W. Gakuya and Prof. Japheth C. Kiptoon (**Graduated August 2015**).
22. Effect of enhanced feeding practices on the health and performance of dairy cows in Mukurweini District, Kenya. Student, **Dr. Getrude Shepelo, MVet Medicine student, Department of Clinical Studies University of Nairobi** Supervisors: Profs. **G.K. Gitau**, John Vanleeuwen and C.M. Mulei (**Graduated August 2015**).
23. A Study on the prevalence and factors associated with spatial distribution of bovine eimeriosis in Busia County of Western Kenya. **Dr. Dennis. Nguue Makau, MVEE student, Department of Public Health, Pharmacology and Toxicology, University of Nairobi** Supervisors: **Prof. George. K. Gitau**, Dr. Gerald. M. Muchemi and Dr. Eric Fevre (November 2014).
24. The impact of enhanced nutritional and feeding practices on growth and health of dairy calves in Mukurweini District of Kenya. **Dr. Sylvia Nafula Situma, MVet Medicine student, Department of Clinical Studies University of Nairobi.** Supervisors: **Prof. G.K. Gitau**, Prof. C.M. Mulei and John Vanleeuwen (February 2014).
25. An abattoir survey of causes of carcass and organ condemnation of livestock slaughtered in three major abattoirs in South Sudan. **Dr. Yout Mabior Mabil De Awar, MVEE student, Department of Public Health, Pharmacology and Toxicology, University of Nairobi.** Supervisors: Prof. Phillip M. Kitale, **Prof. G. K. Gitau** and Dr. Gerald Muchemi (October 2013).

26. Estimating the prevalence of mastitis and the associated risk factors in traditionally managed lactating one humped camels in West Pokot and Garissa counties, Kenya. **Dr. Charles Toroitich Kisa, MVEE student, Department of Public Health, Pharmacology and Toxicology, University of Nairobi.** Supervisors: Prof. Phillip M. Kitale, **Prof. G. K. Gitau** and Dr. George C. Gitau (November 2013).
27. Socio-economic impact and spatial distribution of rift valley fever and its management capacity enhancement in Northeastern Kenya. **Dr. Victoria Ng'ondur, Department of Veterinary, Pathology, Microbiology and Parasitology.** Supervisors: Profs. Phillip N. Nyaga and **George. K. Gitau.** (October 2012)
28. Factors affecting camel calf health and productivity in Laikipia and Marsabit Districts of Kenya. **Dr. Gilbert Kirui, Department of Clinical Studies University of Nairobi.** Supervisors: Prof. G.K. Gitau, Prof. C.M. Mulei and Dr. A.G. Thaiyah (June 2012).
29. The prevalence of bovine mastitis and usefulness of petrifilms as a diagnostic tool for determining potential treatment regime for pathogen causing mastitis in Nyeri and Nakuru Districts, Kenya. **Dr. Royford Bundi Magiri, Department of Clinical Studies University of Nairobi.** Supervisors: Profs. G.K. Gitau, John Vanleeuwen and C.M. Mulei (October 2010).
30. Epidemiology of gastrointestinal nematodes and efficacy of moxidectin and albendazole on zero-grazed and free-range dairy cattle, in Nyeri and Nakuru Districts of Kenya. **Dr. Waweru Kabaka, Department of Public Health, Pharmacology and Toxicology, University of Nairobi** (August 2011). Supervisors: Dr. Phillip M. Kitale, **Profs. George. K. Gitau**, Ndichu Maingi, and John VanLeeuwen.
31. Cerebrospinal fluid as a means of predicting late-stage human African Trypanosomiasis in the monkey model. **Dr. Fredrick Chimoyi Maloba, Department of Public Health, Pharmacology and Toxicology, University of Nairobi** (2010). Supervisors: Prof. Jackson Ombui, **Prof. George K. Gitau** and Dr. Maina Ngotho.
32. The prevalence and determinants of malaria in Mwea division, Kirinyaga District Kenya. **Dr. Martin Oganda. Department of Community Health, University of Nairobi** (2005). Supervisors: Profs. Violet Kimani, Drs. Y. Kombe, L. Nyabora, C. Mutero and **G.K. Gitau.**
33. A participatory comparative study on livestock marketing strategy and information system options in relation to livestock disease control in Loima Division of Turkana District, Kenya. **Dr. Raphael Lotira Arasio. Department of Public Health, Pharmacology and Toxicology, University of Nairobi** (2004). Supervisors: Prof. J.M. Gathuma, Dr. Philip Kitale and **Dr. G.K. Gitau.**
34. Treatment seeking behaviour for malaria in Mwea Division, Kirinyaga District Kenya. **Dr. Lucy Musyoka, Department of Community Health, University of Nairobi** (2003). Supervisors: Profs. Violet Kimani, Olenja, **Dr G.K. Gitau** and Mr. F. Njeru.

35. An assessment of crop-livestock interactions and nutrient cycling in Mwea Irrigation Scheme, Kirinyaga District, Central Kenya. **Mr. Elijah Kiarie, Department of Animal Production, University of Nairobi (2003).** Supervisors: Drs Lucy Kabuage, Jacob Wakhungu and **G.K. Gitau.**
36. Community participatory epidemiology and modelling of CBPP in Turkana District of Kenya. Dr. Kaitho, **Department of Public Health, Pharmacology and Toxicology, University of Nairobi (2003).** Supervisors: Prof. J.M. Gathuma, **Dr. G.K. Gitau,** and Prof. E.K. Kang'ethe.
37. Business planning as a tool in private pastoral veterinary practice in Turkana District. **Dr. Michael Eregae, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (2003).** Supervisors: Prof. J.M. Gathuma, **Drs. G.K. Gitau,** and Mbaria.
38. An economic study of smallholder dairy farms in Murang'a District of Kenya. Gerdein van Schaik, **Wageningen Agricultural University, The Netherlands (1998).** Supervisors: Prof. A.A., Dijkhuizen, Drs. B.P. Perry, A.W. Mukhebi and **G.K. Gitau.**

## **PHD STUDENTS**

### **ONGOING**

#### **PHD STUDENTS**

1. Early Outcome of Low Dose Brachytherapy for early Prostate Cancer Treatment in Nairobi, **Student: Peter Ngugi Mungai, Doctor of Philosophy, Surgery, Department of Surgery, Faculty of Health Sciences, University of Nairobi.** Supervisors: Prof. Daniel Ojuka and **Prof. George Gitau** (Started February 2024).

### **COMPLETED**

#### **PHD STUDENTS**

1. An analysis of post-harvest loss reduction technologies on the welfare of rural tomato smallholder farmers in Kaduna, Nigeria. **Student: Korie Nnaemeka Innocent, Doctor of Philosophy, Agricultural Information and Communication Management, Department of Agricultural Economics, Faculty of Agriculture, University of Nairobi.** Supervisors: Dr. Lucy Karega Njeru, Prof. John Mburu and **Prof. George Gitau (Defended: 1<sup>st</sup> July 2024).**
2. The incidence of morbidity and mortality of East Coast Fever Infection and the associated Risk Factors in Narok and Busia Counties of Kenya. **Student: Dr. Wycliff Ngetich, Doctor of Philosophy Student, Department of Clinical Studies, Faculty of Veterinary Medicine, University of Nairobi,** Supervisors: **Prof. George K. Gitau,** Dr. Tequiero Abuom and Dr. Gabriel Aboe (**Defended: 19<sup>th</sup> June 2024).**

3. Frequency and impacts of infection with Bovine Viral Diarrhea Virus (BVDV) and vaccine protection among dairy cows near Meru. **Student: Daniel Muasya, Doctor of Philosophy, University of Prince Edward, Canada. Supervisors:** John VanLeeuwen, **George K. Gitau**, Spencer Greenwood and Shawn McKenna (**Completed January 2023**).
4. Investigation of dairy calf welfare in smallholder zero-grazing dairy farms in Kenya. **Peter Kimeli**, Doctor of Philosophy student, University of Prince Edward, Canada. **Supervisors:** John VanLeeuwen, **George K. Gitau**, Spencer Greenwood and Shawn McKenna (**Completed September 2020**).
5. Improving reproductive efficiency in cows through diet, hormonal therapy and sex-sorted semen in smallholder dairy farms in Meru County, Kenya. **Joan Muraya**, Doctor of Philosophy student, University of Prince Edward, Canada. **Supervisors:** John VanLeeuwen, **George K. Gitau**, Shawn McKenna and Jeff Wichtel (**Completed January 2019**).
6. Enhancing cattle productivity and farm livelihoods of Smallholder Dairy Farmers through drought-tolerant Agroforestry in Meru County, Kenya. **Dennis Makau**, Doctor of Philosophy student, University of Prince Edward, Canada. **Supervisors:** John VanLeeuwen, **George K. Gitau**, Colleen Walton and Jeff Wichtel (**Completed January 2019**).
7. Association of Milk Sales with Nutritional and Farm Management Practices on Smallholder Dairy Farms in Kenya. **Shauna Richards**, Doctor of Philosophy student, University of Prince Edward, Canada. **Supervisors:** John Vanleeuwen, Henrik Stryhn, **George K. Gitau** and Jeff Wichtel (**Completed April 2017**).
8. The effect of community wildlife sanctuaries on pastoral livestock production system. **Elizabeth Nduku Muthiani**, Department of Land Resource Management and Agricultural Technology, University of Nairobi (February 2012). **Supervisors:** Prof. J.T. Njoka, Dr. P.I.D. Kinyua and **Prof. G.K. Gitau**.
9. The effect of trypanosomosis and helminthosis on productive performance in the Maasai Zebu/Orma Boran crossbred calves in Nguruman, Kenya. **Dr. Monica Maichomo**, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (2008). **Supervisors:** Prof. J.M. Gathuma, **Dr. G. K. Gitau**, Prof. W. Kosura and Dr. J. Ndung'u.
10. Calf health and productivity under Maasai pastoral systems in Kajiado District of Kenya. **Dr. Stephen Karimi Kibiru**, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (2007). **Supervisors:** Prof. J.M. Gathuma, Drs. J.J. McDermott, **G.K. Gitau** and R. Kinuthia. Funded by EU/KARI ASAL Project.
11. Major factors associated with high morbidity, mortality and poor performance of camel calves, kids and lambs in the Rendille and Samburu pastoral herds in Marsabit District, Kenya. **Dr. James Chomba Njanja**, Department of Public Health, Pharmacology and



**Toxicology, University of Nairobi (2007). Supervisors:** Prof. J.M. Gathuma, **Dr. G.K. Gitau**, Dr. R.N. Kinuthia and Prof. F.N. Njeru. Funded by EU/KARI ASAL Project.

12. The potential and limitation of rearing replacement dairy heifers on Napier grass in the Kenyan Highlands. **John Nderitu Kariuki. Wageningen Agricultural University, The Netherlands (1998). Supervisors:** Prof. S. Tamminga, Drs. **G.K. Gitau** and C.K. Gachuiri.

## EXAMINATION OF POSTGRADUATE THESES

---

### Master of Science (MSc)

1. Estimation of seroprevalence and predictors for Coxiella burnetii infection in Garba Tulla in Isiolo County, Kenya”, by **Wilfred Mutuku Mutisya**, J56/38884/2020, Supervisors: Dr. Peter B. Gathura and Dr. Timothy Wachira, Department of Public Health, Pharmacology and Toxicology (**June 2024**).
2. Prevalence of Anaplasma and Babesia infections in calves and their associated risk factors in Narok County, Kenya. DR. NAOMI KIBET, J56/41561/2021, Supervisors: **Prof. George K. Gitau** and Getrude P. Shepelo (**November 2023**).
3. Prevalence of gastrointestinal parasites and associated factors among zebu calves in isiolo county Kenya, Dr. Moses Irungu Gakuru, MVet Med Student, **Supervisors: Prof. George Gitau** and Dr. Kaunga Muthee (**February 2022**). **Internal Examiner**.
4. Effectiveness of dry cow therapy in smallholder dairy farms in Kiambu County, Kenya. Dr. Ronald Sang, Master of Veterinary Medicine, Department of Clinical Studies, Faculty of Veterinary Medicine, University of Nairobi, Supervisors: **Prof. George K. Gitau** and Prof. John VanLeeuwen (**March 2021**). **Internal Examiner**.
5. Performance of small ruminant in smallholder climate smart villages in lower Nyando, Kenya, Ms. Winfred Sila, Master of Science, Department of Animal Projection, University of Nairobi, (**November 2020**). **Board Member**
6. Assessing the efficacy of short message telephony on compliance with rabies post exposure prophylaxis regimen by human cases of dog-bites in Makueni County, Kenya" by Dr. Veronica Mbaire Chuchu, Master of Veterinary Epidemiology and Economics student J56/88738/2016, Department of Public Health, Pharmacology and Toxicology, University of Nairobi, (**August 2020**). **Internal Examiner**.
7. Sero-prevalence of Middle East Respiratory Syndrome-Corona Virus in ranches camels in Naivasha, Nakuru County, Kenya, Dr. Sanni Abdullahi Ozomata, Master of Veterinary Epidemiology and Economics student, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (**November 2018**). **Board Member**.

8. Prevalence and risk factors for Foot and Mouth Disease in Nakuru County, Kenya, Dr. Nyaguthii Dickson Machira, Master of Veterinary Epidemiology and Economics student, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (**November 2018**). **Internal Examiner.**
9. Dog population demographics and ecology in Asembo, Siaya County: implications for rabies control, Dr. Kwomba E. Nafula, Master of Veterinary Epidemiology and Economics student, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (**August 2018**). **Internal Examiner.**
10. Epidemiology of ovine babesiosis in Kajiado Central Sub-County, Kenya, Dr. Khansa Taha Sedding, Master of Veterinary Epidemiology and Economics student, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (**October 2017**). **Board Member.**
11. Molecular epidemiology of poultry Campylobacteriosis in peri-urban areas of Nairobi County, Kenya, Dr. Lydia Moraa Mageto, Master of Veterinary Epidemiology and Economics student, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (**September 2017**). **Internal Examiner.**
12. Prevalence of mastitis and associated risk factors in dairy goats in Machakos County Dr. Laban Ngunga Makau, Master of Veterinary Epidemiology and Economics student, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (**May 2017**). **Internal Examiner.**
13. Knowledge, Attitudes and practices regarding Anthrax among community members, health and veterinary workers in Maragua Kenya. Student: Dr. Chacha Isaiah Nchagwa, Master of Veterinary Epidemiology and Economics student, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (**November 2016**). **Board Member**
14. An assessment of the role of immunization in the control of East Coast fever under pastoral production system in Kenya (a case of Narok County). Student: Dr. Gabriel Mukholi Tensesi, Master of Veterinary Epidemiology and Economics student, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (**November 2015**). **Internal Examiner**
15. Using ecological niche model to map out the risk of Rift Valley Fever in Kenya. Student: Dr. Kiunga Purity Nkirote, Master of Veterinary Epidemiology and Economics student, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (**July 2015**). **Internal Examiner**
16. Causes and factors associated with adult dog morbidity, mortality in breeding kennels in Nairobi County. Student: Dr. Sharon Nthenya Mbindyo, MVet Medicine student, Department of Clinical Studies University of Nairobi (**July 2015**). **Internal Examiner**

17. A study on the sero-prevalence and factors associated with *Mycobacterium bovis* in Kenya. Student, Dr. Daniel Muasya, MVet Medicine student, Department of Clinical Studies University of Nairobi, (June 2015). **Internal Examiner**
18. A study on the causes of puppy morbidity and mortality among dog breeders in Nairobi County and its environs. Student: Dr. Andrew Matole Konde, Master of Veterinary Medicine student, Department of Clinical Studies, University of Nairobi, (January 2015). **Internal Examiner**
19. Effect of enhanced feeding practices on the health and performance of dairy cows in Mukurweini District, Kenya. Student, Getrude Shepelo, Master of Veterinary Medicine student, Department of Clinical Studies, University of Nairobi (January 2015). **Internal Examiner**
20. Epidemiology of Malaria in irrigated parts of Tana River County, Kenya. Master of Veterinary Epidemiology and Economics student, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (December 2014). **Internal Examiner.**
21. Enhancement of PPR diagnosis in experimentally infected sheep and goats and validation of Real Time PCR as a diagnostic tool in Kenya. Dr. Maina Simon Migwi, MSc (Microbiology-Virology) student, Department of Parasitology, Pathology and Microbiology, University of Nairobi. (July 2014). **Internal Examiner**
22. The impact of enhanced nutritional and feeding practices on growth and health of dairy calves in Mukurweini District of Kenya. Dr. Sylvia Nafula Situma, Master of Veterinary Medicine student, Department of Clinical Studies University of Nairobi. (February 2014). **Internal Examiner.**
23. Estimating the prevalence of mastitis and the associated risk factors in traditionally managed lactating one humped camels in West Pokot and Garissa counties, Kenya. Dr. Charles Toroitich Kisa, Master of Veterinary Epidemiology and Economics student, Department of Public Health, Pharmacology and Toxicology, University of Nairobi. (November 2013). **Internal Examiner.**
24. Bacteriological contamination of farm and market kale in Nairobi and its environs: pathogenicity and antibiotic sensitivity profiles of the isolated Salmonella. Mr. Elisha Kimutai Kutto, MSc in Clinical Pathology and Laboratory Diagnosis, Department of Parasitology, Pathology and Microbiology, University of Nairobi (August 2012). **Board Member.**
25. A study of the levels of copper, lead and organochlorines in fish and soil, and methods of agrochemical handling in Kirinyaga East District. Dr. Jason Gathumbi Kimotho, MSc, Department of Public Health, Pharmacology and Toxicology, University of

Nairobi (**June 2012**). **Board Member**.

26. Prevalence of porcine cysticercosis and associated risk factors in Homa-Bay County, Kenya. Dr. Erik Eshitera Emali, MSc Student, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (**2012**). **Board Member**.
27. The prevalence of bovine mastitis and usefulness of petrifilms as a diagnostic tool for determining potential treatment regime for pathogen causing mastitis in Nyeri and Nakuru Districts, Kenya. Dr. Royford Bundi M., MSc student, Department of Clinical Studies, University of Nairobi (**2011**). **Internal Examiner**
28. Epidemiology of gastrointestinal nematodes and efficacy of moxidectin and albendazole on zero-grazed and free range dairy cattle, in Nyeri and Nakuru Districts of Kenya. Dr. Waweru Kabaka Department of Public Health, Pharmacology and Toxicology, University of Nairobi (2011). **Board Member**.
29. Application of models in prediction of dairy cattle productivity in Mbeere District, Kenya. Mr. Paul Nzyumo Katitku, Department of Animal Production, University of Nairobi (**2010**). **Internal Examiner**.
30. Descriptive analysis of the Dairy-Crop Mixed farming system in Wundanyi Division of Taita District. Dr. Patrick Mwambi Mwanyumba, Department of Animal Production, University of Nairobi (**2010**). **Board Member**.
31. Cerebrospinal fluid as a means of predicting late stage human African Trypanosomiasis in the monkey model, Dr. Fredrick Chimoyi Maloba Department of Public Health, Pharmacology and Toxicology, University of Nairobi (**2009**). **Internal Examiner**.
32. An economic analysis of factors influencing decision-making in smallholder farmers' dairy health management practices, Ms M.N. Wandaka, Department of Agricultural Economics, University of Nairobi (**2009**). **Internal Examiner**.
33. Estimating the prevalence of East Coast fever and determinants of associated risk factors in the cattle population of Mbeere District, Kenya, Dr. J.M. Gachohi, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (**2009**). **Internal Examiner**.
34. Farm factors associated with milk rejection at Dairy Cooperatives in peri-urban Nairobi, Dr. V.K. Kyallo, (**2009**). Department of Clinical Studies, University of Nairobi. **Board Member**.
35. Studies in the epidemiology and control of tick-borne diseases with special reference to East Coast fever: perceptions of the pastoral communities in northeastern Rift Valley Province, Kenya, Dr. Kipronoh K.A. Department of Public Health, Pharmacology and Toxicology, University of Nairobi (**2008**). **Internal Examiner**.

36. The impact of quarantine restrictions on livestock markets with special reference to foot and mouth disease in Garissa District, Kenya. Dr. Mohamed M. Yusuf, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (2008). **Board Member.**
37. The prevalence and determinants of malaria in Mwea division, Kirinyaga District Kenya. Dr. Martin Oganda, Department of Community Health, University of Nairobi (2006). **Internal Examiner.**
38. A participatory comparative study on livestock marketing strategy and information system options in relation to livestock disease control in Loima Division of Turkana District, Kenya. Dr. Raphael Lotira Arasio, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (2004). **Board Member.**
39. Treatment seeking behaviour for malaria in Mwea Division, Kirinyaga District Kenya. Dr. Lucy Musyoka, Department of Community Health, University of Nairobi (2003). **Internal Examiner.**
40. Community participatory approaches in the epidemiology and control of trypanosomosis in camels in Turkana District, Kenya Dr. Mochabo, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (2003). **Internal Examiner.**
41. Business planning as a tool in private pastoral veterinary practice in Turkana District. Dr. Michael Eregae, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (2003). **Board Member.**

#### **Doctor of philosophy (PhD)**

1. Livestock brucellosis in Kajiado and Narok counties, Kenya: seroprevalence, molecular prevalence, spatial distribution, and comparison of diagnostic tests, Mahacla Omung'ala Odongo, Department of Pathology, Microbiology and parasitology. Supervisors: Prof. James Kinuthia Gathumbi, Prof. Lilly Caroline Bebora and Dr. Gabriel Oluga Aboge, (February 2025). **Internal Examiner.**
2. Neutralization capacity of selected medicinal plants against the toxicological effects of *Bitis arietans*, *Naja ashei*, and *Naja subfulva* snake venoms, Mitchel Okumu Otieno, Department of Public Health, Pharmacology and Toxicology. Supervisors: Prof. James Mucunu Mbaria, Prof. Joseph Kangangi Gikunju, Prof. Paul Gichohi Mbuthia and Dr. Vincent Odongo Madadi (August 2024). **Board Member.**
3. The incidence of morbidity and mortality of East Coast Fever Infection and the associated Risk Factors in Narok and Busia Counties of Kenya. **Student: Dr. Wycliff Ngetich, Doctor of Philosophy Student, Department of Clinical Studies, Faculty of Veterinary Medicine, University of Nairobi**, Supervisors: **Prof. George K. Gitau**, Dr. Tequiero Abuom and Dr. Gabriel Aboge (June 2024). **Internal Examiner.**

4. Frequency and impacts of infection with Bovine Viral Diarrhea Virus (BVDV) and vaccine protection among dairy cows near Meru. **Student: Daniel Muasya, Doctor of Philosophy, University of Prince Edward, Canada. Supervisors: John VanLeeuwen, George K. Gitau, Spencer Greenwood and Shawn McKenna (January 2023). Internal Examiner.**
5. High risk human papillomavirus in head and neck squamous cell carcinoma patients at Kenyatta National Hospital, Joyce Mmbone Aswani, **PhD student**, Department of Surgery, Faculty of Health Sciences, University of Nairobi (**December 2021**) (**Board Member and Senate Representative**).
6. Development of competency guidelines for end of life nursing care utilizing a modified Delphi process, Gladys Warindi Machira, **PhD student**, School of Nursing, Faculty of Health Sciences, University of Nairobi (**September 2021**) (**Board Member and Senate Representative**)
7. Assessment of risk to human health associated with aflatoxins in the Kenya Dairy Value Chain, Dr. Sirma Anima Jematia Kigen, PhD, thesis, Department of Public Health, Pharmacology and Toxicology, University of Nairobi, (**November 2020**). **Board Member.**
8. Assessing the impact of infrastructure development and training on meat and hides and skin sector in Somaliland. Department of Public Health, Pharmacology and Toxicology, University of Nairobi, Dr. Wamalwa Kinyanjui, **June (2017). Internal Examiner.**
9. The design of a model animal health information management system for countries in conflict and post conflict: a case study of Puntland State of Somalia. Dr. Sophycate Wanjiru Njue, Department of Public Health, Pharmacology and Toxicology, University of Nairobi, November (**2016**). **Internal Examiner.**
10. Evaluation of possible subunit vaccines against Contagious Bovine Pleuropneumonia. Student: Dr. Isabella Gacheri Nkando, Department of Pathology, Microbiology and Parasitology, University of Nairobi, July (**2016**). **Board Member.**
11. Potential role of social networks in controlling African Swine Fever on the Kenya-Uganda border. Student: Dr. Jackline Lichoti Kasiti, Department of Public Health, Pharmacology and Toxicology, University of Nairobi, November (**2015**). **Internal Examiner.**
12. Epidemiology of enterotoxigenic *Escherichia coli* and *Salmonella* diarrhea in piglets and weaners from northern and eastern Uganda”, Student: Dr. Kokas Ikwap, Department of Animal Resources and Biosecurity, College of Veterinary Medicine, Makerere University (2015). **External Examiner.**

13. A simulation model for Rift Valley fever transmission in Kenya. **Student:** Dr. Gachohi John Mwangi, Department of Public Health, Pharmacology and Toxicology, University of Nairobi, November (2015). **Internal Examiner.**
14. Epidemiology and species characterisation of mange in cheetahs, Thompson's gazelles and domestic animals in Maasai Mara ecosystem. Dr. Francis Muriuki Gakuya, Department of Public Health, Pharmacology and Toxicology, University of Nairobi, October (2011). **Board Member.**
15. Global animal health standards and their effect on the livestock and meat exports in Kenya. Dr. Peter Maina Ithodeka Department of Public Health, Pharmacology and Toxicology, University of Nairobi (2010). **Board Member.**
16. Characteristics of production system and trade, epidemiology and control of parasites on pig farmers in Busia District, Kenya. John Maina Kagira, Department of Parasitology, Microbiology and Pathology, University of Nairobi (2009). **Board Member.**
17. Modeling Host-Parasitoid System Dynamics Applicable to Diamondback Moth Fluctuations. Tonnang, Z. E. H., School of Biological Sciences (2008). **Board Member.**
18. The effect of trypanosomosis and helminthosis on productive performance in the Maasai Zebu/Orma Boran crossbred calves in Nguruman, Kenya. Dr. Monica Maichomo, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (2008). **Internal Examiner.**
19. Calf health and productivity under Maasai pastoral systems in Kajiado District of Kenya. Dr. Stephen Karimi Kibiru, Department of Public Health, Pharmacology and Toxicology, University of Nairobi (2007). **Board Member.**
20. The potential and limitation of rearing replacement dairy heifers on Napier grass in the Kenyan Highlands. John N. Kariuki. Wageningen Agricultural University, The Netherlands (1998). **Internal Examiner.**

## **UNDERGRADUATE STUDENT SUPERVISION**

1. Assessment of welfare conditions among working donkey in Ndeiya Ward of Limuru Sub-County. **Muhoho Francis Ng'ang'a, J30/82775/2017, April 2022.**
2. Causes and losses associated with repeat breeder syndrome in cattle. **Mwangi Kelvin A Wanyoike, J30/82793/2017, April 2022.**
3. Human-Wildlife conflict in Ura Gate, Tharaka Nithi County. **Murimi Mukami Felisters - J30/82773/2017, April 2022.**

4. Retrospective study on the occurrence of anaplasmosis and pneumonia in cattle from Kanyariri veterinary farm, Kiambu county of Kenya. **Abel Rutto, J30/2618/2016, March 2020.**
5. A retrospective study on the mortalities of large animals admitted at the large animal clinic, University of Nairobi, Kabete campus **Auguster Michelle Atieno, J30/2634/2016, March 2020.**
6. A retrospective study on the common bacterial isolates in milk in Kiambu County and their sensitivity testing, **Alube Miriam Dorcas, J30/2652/2016, March 2020.**
7. A prospective study of the technical abilities of dairy farmers in dairy cow nutrition, Embu County, **Muriithi Kennedy Roy Mugendi, J30/4116/2015, July 2020.**
8. Public awareness and vaccination of animals against anthrax, and its relationship with high outbreaks in Murang'a County, Kenya, **Moses Irungu Gakuru, J30/2607/2014, February 2019.**
9. A study on knowledge, awareness, perception and management of Contacious Caprine Pleuropneumonia (local name- Ikipei) in Samburu Central Sub County, **Leparteleg Jacob Jambas, J30/2379/2013, February 2019.**
10. A survey of knowledge, attitude and practices towards brucellosis among high school students in West Pokot sub-county West Pokot county, **Kamama Sakwa Edgar, J30/2627/2014, July 2019.**
11. A retrospective study on prevalence of foot and mouth disease outbreaks in Kenya from 2016 to 2018, **Kelvin Mutethia Kiambi, J30/2420/2015, July 2019.**
12. Mortality of farm animals as a cause of economic loss within Kanyariri Vet Farm, **Ombewa Peter, J30/2449/2015, July 2019.**
13. Retrospective study on Foot and Mouth Disease (FMD) outbreaks in Namibia, 2011 to 2015, **Lynne M.L.N Nakwafila, J30/32437/2014, July 2018.**
14. Occurrence of mastitis in dairy cows in a Rift Valley Farm in Kenya, Mutai Samwel J30/2683/2006.
15. Causes and risk factors associated with calf mortalities of less than a month old in Kanyariri Farm, Kabete, **Emily Jepng'etich Kiprono J30/2403/2015, July 2019.**
16. A restrospective study on dairy cow morbidity and mortality and their causes in Kanyariri Farm from age 6 months, **Arkippo Awuor Adams, J30/2431/2015, March 2018.**



17. Prevalence of fascioliasis in slaughtered ruminants at the Nyongara slaughter house (Dagoretti Abattoir) from mid-2016 to the first quarter of 2017, **Dominic Bett, J30/3508/2009, March 2018.**
18. A retrospective study on occurrence of bovine cutaneous skin conditions at the Beef Research Institute KARLO Lanet Nakuru, Kenya, **Githaka .G. Ibrahim, J30/2380/2013, March 2018.**
19. Farmers' awareness on proper dairy housing and production performance amongst dairy farmers in Baringo County, **Cheruiyot Jeptoo Linda, J30/2610/2014, March 2018.**
20. Causes of heifer morbidity at the University of Nairobi Veterinary Farm, Kanyariri between 2012-2016, **Angwenyi Shaleen Kemunto Sarange, J30/35279/2013, March, 2018.**
21. A retrospective study of foot and mouth disease outbreaks in Mopani District Limpopo Province, South Africa from 2006-2016. **Manakedi Chokoe, J30/55433/2012, March 2018.**
22. Ostrich farming in Kenya being best alternative for land use in arid and semi-arid lands areas, **Chepng'eno Edna, J42/3721/2013, Date: March, 2017.**
23. Retrospective study determining the difference in the prevalence of canine babesiosis between German Shepherd and Rottweiler breeds in a commercial breeding kennel, **Ohuru Arvine Adhiambo, J30/2142/2011, March 2017.**
24. The prevalence of bovine anaplasmosis at Soysambu conservancy between 2014 and 2015, **Okoth Calvin G, J30/2140/2011, March, 2016.**
25. Reduction of calf mortality at Soysambu Ranch by determination of the cases of calf scours in the past 1½ year, **Otieno Austine Oduor, J30/2104/2011, March 2016.**
26. A retrospective study of the reproductive performance of Kanyariri Vet Farm, University of Nairobi for improved cost effective production, **Wanjala Wavumbah Nashon, J30/2089/2011, March 2016.**

## **SCHOLARSHIPS/FELLOWSHIPS/AWARDS**

---

1. **May 2018.** Nominated and selected as the 2018 RG Thomson Lecturer, the most prestigious research recognition awarded annually at the Atlantic Veterinary College, University of Prince Edward Island for travel to Canada to give Key Note presentation during the Graduate Student Conference between 16<sup>th</sup>-18<sup>th</sup> May 2018.
2. **September 2005.** Certificate of Merit for contribution to the organisation of the 28<sup>th</sup> International Scientific Conference on Trypanosomiasis Research and Control (ISCTRC) between 26<sup>th</sup> and 30<sup>th</sup> September 2005 at the African Union Commission in Addis Ababa

Ethiopia.

3. **June 2003.** Recognised and honoured by **Marquis Who is Who** in Science and Engineering as a distinguished scientist.
4. **July 2001.** Certificate of Service. Awarded by the Kenya Veterinary Association (KVA) in recognition of the excellent to the Kenya Veterinary Association.
5. **April 1999.** Awarded a travel scholarship by the Organising Committee for the Society for Tropical Veterinary Medicine (STVM) to attend the 5<sup>th</sup> Biennial Scientific Conference in Key West Florida, USA.
6. **March 1997.** Awarded a travel scholarship by the Organising Committee for International Society for Veterinary Epidemiology and Economics (ISVEE) to attend the 8<sup>th</sup> International Symposium for Veterinary Epidemiologists and Economists in Paris, France.
7. **October 1993.** Awarded a Research Fellowship at the International Laboratory for Research on Animal Diseases (ILRAD), now the International Livestock Research Institute (ILRI) to Undertake Doctorate of Philosophy degree project in collaboration with the University of Nairobi Kenya.
8. **February 1990.** Recipient of the Kenya Government General Training Fund(GTF) II/Canadian International Development Authority (CIDA) Scholarship to undertake a Master of Science degree in the Department of Population Medicine at the University of Guelph, Canada.

## MEMBERSHIP/ASSOCIATIONS

---

1. Registered Veterinary Surgeon, Kenya Veterinary Board (KVB-Number 907).
2. Member of the Kenya Veterinary Association (KVA/0323).
3. Executive Committee Member of the Kenya Veterinary Association, **2012/2013.**
4. Executive Committee Member of the Kenya Veterinary Association, **2000/2002.**
5. Member of the International Society for Veterinary Epidemiology and Economics (ISVEE).

## REFEREES

---

1. **Prof. Elijah Ndichu Maingi**  
Professor

Department of Parasitology, Microbiology and Pathology  
Faculty of Veterinary Medicine  
University of Nairobi  
P.O. Box 29053-00625  
Kangemi, Nairobi  
Telephone: 0722452969  
E-mail: [nmaingi@uonbi.ac.ke](mailto:nmaingi@uonbi.ac.ke)

**2. Prof. James Nguhiu-Mwangi**

Associate Professor  
Department of Clinical Studies  
Faculty of Veterinary Medicine  
University of Nairobi  
P.O. Box 29053-00625  
Kangemi, Nairobi  
Telephone: 0722452969  
E-mail: [jnmwangi@uonbi.ac.ke](mailto:jnmwangi@uonbi.ac.ke)

**3. Prof. John Vanleeuwen**

Professor  
Department of Health Management  
**Atlantic Veterinary College**  
Atlantic Veterinary College, 215S  
University of Prince Edward Island  
Telephone: +1 902-566-0457  
E-mail: [jvanleeuwen@upei.ca](mailto:jvanleeuwen@upei.ca)