

CURRICULUM VITAE

PROF. GEORGE KARUOYA GITAU (BVM, MSc, PhD)

PERSONAL DETAILS

Professor

Epidemiology and Population Medicine

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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 and teach **Food Animal Medicine, Ruminant Health Management (Herd Health)** and **Epidemiology (Population Medicine)**. I have demonstrable professional skills in field veterinary work, teaching at the university (both at undergraduate and postgraduate levels), project execution, scientific publications and extension service provision including community participatory approaches. I have published widely in refereed scientific journals from my original research work and also work carried out with others. **I have published 84 scientific papers in peer-reviewed scientific journals. I have presented 56 papers in local, regional and international conferences.** I have also gained experience in teaching, supervising postgraduate students and their research projects, carrying out faculty assignments and consultancies in local and international organisations. I have supervised (with other supervisors) a total of **forty (40)** postgraduate students, **8 Ph.D. (completed), 2 PhD (ongoing), and 29 MSc/MPH (completed) and 3 (ongoing).** I am computer literate with extensive skills in the use of database and analytical computer software. 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 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. Some of these are **GEF/UNEP, CIDA, USAID, IDRC, KAPP, DFID, EU, RUFORUM, CDC, among others.**

PROFESSOR: 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.

ACTING DEAN, Faculty of Veterinary Medicine, University of Nairobi, December 2019.

ACTING DEAN, Faculty of Veterinary Medicine, University of Nairobi, September - November 2019.

ACTING DEAN, Faculty of Veterinary Medicine, University of Nairobi, June 2019.

ACTING CHAIRMAN, Department of Clinical Studies, Faculty of Veterinary Medicine, University of Nairobi, July 2019.

ASSOCIATE PROFESSOR: November 2008 – 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.

ACTING CHAIRMAN OF THE DEPARTMENT OF CLINICAL STUDIES on several occasions (2009-2012).

OTHER RESPONSIBILITIES

Member of the Organising Committee of the Golden Jubilee Celebrations and Faculty of Veterinary Medicine/Kenya Veterinary Association Biennial Scientific Conference for April 2012.

Member of Departmental Board, Faculty Board, CAB and CAVS peer mentors.

Faculty Coordinator, Diploma in Animal Health and Production, course conducted jointly by AHITI Ndonga and University of Nairobi.

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:

1999 to 2002, Section Head, Herd Health Services, Department of Clinical Studies. **April to June 2008, Acting Section Head**, Medicine Section, Department of Clinical Studies.

In **1998 and 2000**, I was the first **Secretary** of re-launched Biennial Scientific Conference of the Faculty of Veterinary Medicine.

Member and Master of Ceremony of the Organising Committee of the Faculty Biennial Scientific Conference **for September 2008**.

Deputy Organising Secretary, Faculty of Veterinary Medicine Alumni Chapter and a **Member** of Faculty Alumni Committee organising the launch of the Veterinary Medicine Alumni Chapter.

Member of Department of Clinical Studies **ISO Development Committee**.

Trainer of trainees for the Department of Clinical Studies **Environmental Audit**.

Coordinator, Development of **Short Courses for South Sudan** Veterinary and other professionals (*courses developed and submitted*).

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.

EXTERNAL EXAMINER

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

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

CONSULTANCIES/RESEARCH COLLABORATION

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 (**1st April to 30th 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 (**29th April to 29th May 2012**).

Veterinary sans Frontieres 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 (**26th November to 10th 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 (**3rd August to 12th 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 (**11th to 16th May 2009**).

Veterinary sans Frontieres 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 (**24th April to 11th 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 25th August to 7th 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 18th June to 1st 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

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 **25th 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, **6th -12th 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 12th-13th 2015 at SweetLake 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 28th – 29th 2015**.

Field Epidemiology and Laboratory Training Programme (FELTP). A pre-Vet qualification course given to freshly completed 5th Year Veterinary students to acquire skills on field epidemiology at Prideinn Hotel Westlands, Nairobi **June 8th – 12th 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 3rd to 10th 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 6th, 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. **13th - 15th July 2011.**

One Health Leadership Training. Two days training on the skills to One Health Leadership by USAID RESPOND at the Nairobi Serena Hotel. **14th-15th 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. **28th and 29th 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, **31st 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 20th – October 18th 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, **25th 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), **4th – 6th 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), **20th – 22nd 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 10th – 13th December 2001.

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

EDITORIAL BOARDS

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, *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.

PAPERS SUBMITTED OR IN SUBMISSION

1. Molecular detection and characterization of coronaviruses isolated from olive baboons, bats and rodents in Laikipia County, Kenya. 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. (**In submission: *Emerging Infectious Disease***).
2. Makau DN, Vanleeuwen JA, **Gitau GK**, McKenna, SL, Muraya J, Walton C, Wichtel JJ. Randomized controlled trial of effects of *Calliandra* and *Sesbania* supplementation on daily milk production in dairy cattle on commercial smallholder farms in Kenya, *Veterinary World* (**Submitted, September 2019**).

PAPERS PUBLISHED IN REFEREED JOURNALS

1. Essau Kipyego Serem, **George Karuoya Gitau**, John Vanleeuwen, Peter Kimeli, Tequiero Okumu Abuom, Daniel Waweru Gakuya, Joan Muraya and Dennis Makau. 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> (**November 2019**).

2. Makau DN, Vanleeuwen JA, **Gitau GK**, McKenna, SL, Muraya J, Walton C, Wichtel JJ. 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](http://DOI:10.1016/j.prevetmed.2019.104787), **November 2019**.
3. Muasya D. W., **Gitau G. K.**, Thaiyah A. G., Gakuya D.W., Vanleeuwen J. and Mbatha P. (2016). 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*, (**October 2019**).
4. Peter Kimeli, Dennis Makau, John VanLeeuwen, **George Gitau**, Joan Muraya, Shawn McKenna and Luke Heider, Factors associated with leg cleanliness of smallholder dairy cows in Kenya, *East African Journal of Science Technology and Innovation*, (**October 2019**).
5. Emily .K. Kathambi, John A. VanLeeuwen, **George. K. Gitau** and Crawford Revie (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 (15), <https://doi.org/10.1016/j.prevetmed.2019.104784>.
6. 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*, (), 1-7. 10.1007/s11250-019-02039-1.
7. Emily K. Kathambi, John A. VanLeeuwen, **George K. Gitau** and Collins Kamunde (**July 2019**). Risk factors associated with cow lying time, stall and cow cleanliness in smallholder dairy farms in Kenya. *Veterinary World*, 12(7): 1085-1092.
8. Shauna Richards, John Vanleeuwen, Shepelo Getrude Peter, Jeff Wichtel, Collins Kamunde, Fabienne Uehlingere, **George Gitau (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>.
9. Kathambi Emily Kiugu, **George Karuoya Gitau**, Muchemi Gerald Mwangi, John VanLeeuwen and Salome Wanyoike. Sero-prevalence of Bovine Leukosis virus infection in contrasting farming systems in Kenya, *Ethiopian Veterinary Journal* (**Accepted, March 2019**).
10. 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.
11. 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>
 12. 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).
 13. 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>.
 14. Esther Kamau, Juliette Ongus, **George Gitau**, Tura Galgalo, Sara Lowther, Austine Bitek and Peninah Munyua. Knowledge and practices regarding Middle East Respiratory Syndrome Coronavirus among camel handlers in a Slaughterhouse, Kenya, 2015. *Zoonoses Public Health*. 2018; 00:1–5. <https://doi.org/10.1111/zph.12524>.
 15. 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.
 16. 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>.
 17. 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.
 18. 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.
 19. 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.
 20. 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>

21. 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).
22. 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.
23. 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).
24. 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
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.

32. 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.
33. **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.
34. 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.
35. 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.
36. **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).
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 41. 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, 7th – 9th August 2002.
 42. **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 - 11th August 2000.
 43. **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.
 44. **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.
 45. **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. *5th Biennial Scientific Conference for the Society for Tropical veterinary Medicine, Key West Florida, USA*, 12th-16th June 1999.
 46. **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, 5th-7th August 1998. *Kenya Veterinarian*, 23: 15-17.
 47. **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, 5th-7th August 1998. Kenya Veterinarian, 23: 18-19.*
48. 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, 5th-7th August 1998. Kenya Veterinarian, 23: 95-97.*
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 50. Kariuki, J.N., Tamminga, S., Gachui, 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.*
 51. **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.*
 52. 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.
 53. **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.
 54. 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.
 55. **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.

56. J.J. McDermott, **G.K. Gitau**, C.J. O'Callaghan, A.O. Omoro, 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. 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 –January 2022.**
2. 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.**

COMPLETED

1. 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.**
2. 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).
3. 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.
4. 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)
5. 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).

6. 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).**
7. 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.**
8. 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.**
9. 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.**
10. 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. Gachuri. Collaborators: Kenya Agricultural Research Institute, Kenya, Wageningen Agricultural University, The Netherlands and University of Nairobi, Kenya, **1994-1998.**
11. 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.**
12. 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.
13. 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.**
14. 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.
15. 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. 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.
2. 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**.
3. 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**.

COMPLETED MSC STUDENTS

1. 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. Tequiro Abuom. **(December 2019)**.
2. 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)**.
3. 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)**.
4. 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)**.
5. 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).

6. 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).
7. 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. Kitata and Dr. Eric Ferve. (Graduated December 2015).
8. 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).
9. 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).
10. 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).
11. 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).
12. 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).
13. 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).
14. 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).

15. 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).
16. 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).
17. 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).
18. Socio-economic impact and spatial distribution of rift valley fever and its management capacity enhancement in Northeastern Kenya. **Dr. Victoria Ng'andu, Department of Veterinary, Pathology, Microbiology and Parasitology. Supervisors: Profs. Phillip N. Nyaga and George. K. Gitau. (October 2012)**
19. 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).
20. 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).
21. 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.**
22. 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.
23. 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.**
24. 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 Kitala and **Dr. G.K. Gitau.**

25. 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.
26. 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.**
27. 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.
28. 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.
29. 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.**

PH.D STUDENTS

1. 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**).
2. 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**).
3. 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**).
4. 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.**

5. 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.
6. 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.
7. 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.
8. 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. Gachuri.

ONGOING

PH.D STUDENTS

1. 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.
2. Frequency and impacts of infection with Bovine Viral Diarrhea Virus (BVDV) and vaccine protection among dairy cows near Meru. Daniel Muasya, Doctor of Philosophy student, University of Prince Edward, Canada. **Supervisors:** John VanLeeuwen, **George K. Gitau**, Spencer Greenwood and Shawn McKenna.

EXAMINATION OF POSTGRADUATE THESES

Master of Science (MSc)

1. Sero-prevalence of Middle East Respiratory Syndrome-Corona Virus in ranches 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.**
2. 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.**

3. 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.**
4. 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.**
5. 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.**
6. 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.**
7. 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**
8. 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**
9. 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**
10. 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**
11. 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**
12. 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**

13. 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**
14. 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**.
15. 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**
16. 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**.
17. 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**.
18. 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**.
19. 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**.
20. 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**.
21. 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**
22. 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.**
23. 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.**
 24. 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.**
 25. 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.**
 26. 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.**
 27. 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.**
 28. 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.**
 29. 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.**
 30. 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.**
 31. 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.**
 32. 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.**
 33. Treatment seeking behaviour for malaria in Mwea Division, Kirinyaga District Kenya. Dr. Lucy Musyoka, Department of Community Health, University of Nairobi (2003). **Internal Examiner.**

34. 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.**
35. 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. 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.**
2. 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.**
3. 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.**
4. 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.**
5. 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.**
6. 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.**
7. 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.**
8. 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.**
9. Modeling Host-Parasitoid System Dynamics Applicable to Diamondback Moth Fluctuations. Tonnang, Z. E. H., School of Biological Sciences (2008). **Board Member.**

10. 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.**
11. 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.**
12. 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.**

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 16th-18th May 2018.
2. **September 2005.** Certificate of Merit for contribution to the organisation of the 28th International Scientific Conference on Trypanosomiasis Research and Control (ISCTRC) between 26th and 30th 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 5th 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 8th 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 GTF II/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. Paul W.N. Kanyari

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