

# John Gachohi, BVM, Msc (VEE), Ph.D

John is an eco-epidemiologist with strong interests in understanding the entire (multilevel) causative chain in infectious and non-infectious disease dynamics for better health. This chain extends from the social and structural community factors and landscape ecology factors at the highest level. The next lower level is risk factor epidemiology on behaviours and exposures at the individual level. The lowest level is molecular epidemiology on biological mechanisms. He fully recognizes that such a perspective must allow for greater methodological pluralism that includes (i) classical quantitative epidemiology that embraces classical epidemiology, dynamical epidemiology, risk analyses, spatial epidemiology, etc and (ii) qualitative epidemiology, all in a systems thinking approach.

John holds a Lecturer position at the Department of Environmental Health and Disease Control (EH & DC), School of Public Health (SoPH), College of Health Sciences (CoHES), Jomo Kenyatta University of Agriculture and Technology (JKUAT), P.O. Box 62000, 00200 Nairobi. He is also currently collaborating with Washington State University – Global Health Kenya where he is coordinating a project seeking to identify Anthrax hotspots and associated ecological factors in Kenya.

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## **Education/Training**

**2011 - 2015:** Ph.D. Veterinary Epidemiology, **University of Nairobi (UoN)**.

**2005 - 2009:** Master of Science, Veterinary Epidemiology and Economics, (**UoN**)

**1990 - 1996:** Bachelor of Veterinary Medicine, (**UoN**)

## **Professional experience**

2017-to-date: Epidemiologist, Washington State University – Global Health Kenya

2015- to-date: Lecturer, Department of EH & DC, SoPH, CoHES, JKUAT

2011- to-2015: Ph.D Graduate Fellow - International Livestock Research Institute (ILRI).

2009 - 2011: Research Technician - ILRI.

2009 - 2015: Research Officer, Kenya Agricultural Research Institute (KARI).

2006 - 2008: MSc Graduate Fellow and Consultant - ILRI.

2003 - 2009: Assistant Research Officer, KETRI/KARI

1999 – 2003: Animal feeds production expert, Pwani Feeds Mombasa, Kenya

## **Grants Awarded**

February 2016: \$40,145 for 3 year innovation grant from Research, Production and Extension (RPE), JKUAT (Principal Innovator) to carry out leptospirosis research in Kibera Slums, Nairobi City, Kenya

## **Teaching experience**

- i. Teaching **Postgraduate** Course work units (JKUAT):
  - a. Epidemiology
  - b. Biostatistics and Demography

- c. Research Methodology
  - d. Health Programmes and Health Research
  - e. Computer Applications in Health Research
  - f. Epidemiological Methods
- ii. Teaching **Undergraduate** course units (JKUAT and other universities):
- a. Biostatistics and Research Methodology
  - b. Food Inspection and Hygiene
  - c. Environmental Health
  - d. Community Mobilization and Participation
  - e. Health Economics
  - f. Emerging and re-emerging infectious diseases.

**Review of research manuscripts and proposals**

1. International Journal for Equity in Health
2. BMC Veterinary Research Journal
3. Kenyatta University Vice Chancellor's Research Grant proposals
4. JKUAT Research Grant proposals
5. BMC Ecology

**University external examination**

**2016 to date:** External examiner, Department of Public Health, Pharmacology and Toxicology, Faculty of Veterinary Medicine, College of Agriculture and Veterinary Sciences, University of Nairobi.

**Post Graduate Student mentorship**

**PhD**

1. **Duke Mobegi:** PhD in Public Health, Jomo Kenyatta University of Agriculture and Technology. Mobile Delivered Tuberculosis Health Education On Contact Screening And Isoniazid Preventive Therapy Among New Smear Positive Tuberculosis Patients: A Randomised Trial In Nairobi, Kenya, ONGOING.
2. **Penina Achieng Oketch:** PhD in Public Health in Jomo Kenyatta University of Agriculture and Technology. Seasonal Malnutrition Status, Iron Deficiency Anaemia Prevalence And Associated Factors Among Elderly Persons Above 60 Years Old In Nyando Sub County, Kisumu County, ONGOING.

**MSc**

1. **Jacinta Mbinya Muli:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Prevalence and factors associated with Podoconiosis in Nakuru County, Kenya. COMPLETED.
2. **Maina Charity Muringo:** MSc in Medical Epidemiology in the College of Health Sciences, Jomo Kenyatta University of Agriculture and Technology. Factors associated with levels of glycated hemoglobin in diabetic patients attending Kenyatta National Hospital, Kenya. ONGOING.
3. **Dr. Valeria N. B Makory:** MSc in Medical Epidemiology in Jomo Kenyatta University of Agriculture and Technology, Institute of Tropical and Infectious Diseases (ITROMID). Levels of adherence towards methadone assisted therapy among heroine substance users at Mathari hospital, Kenya: A cross-sectional study. ONGOING.

4. **Dr. Donald Apat:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology, Institute of Tropical and Infectious Diseases (ITROMID). A spatio-temporal study of fever-related confirmed malarial and non-malarial cases among children under five years in Yala Division, Siaya County in Kenya ONGOING.
5. **Metrine Wasike:** MSc in Medical Epidemiology in the College of Health Sciences, Jomo Kenyatta University of Agriculture and Technology. The burden of health care financing in urban slum households in Kibera slums in Kenya. ONGOING.
6. **John Mugabo:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Assessment of factors associated with occupational injuries among municipal solid waste workers in Kigali City, Rwanda. ONGOING.
7. **Abdirahaman Abdi.** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Relationship between schizophrenia and drug abuse at Mathari National Teaching and Referral Hospital, Kenya. ONGOING.
8. **Rodgers Omondi:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Factors associated with antiretroviral therapy non-adherence among HIV-infected children aged below 14 years. ONGOING.
9. **Samuel Amka:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Assessing clinicians' knowledge and practices in the management of confirmed non-malaria fever illnesses in children under-five in selected facilities in Kisii County. ONGOING.
10. **Beritah Mumbi Mutune:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Knowledge and practices of pesticides used against the bean fly (*Ophiomyia phaseoli*) and associated health effects among bean (*Phaseolus vulgaris*) smallholder farmers in Kabaru location, Nyeri County. ONGOING.
11. **Lydia Natecho Wekesa:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Knowledge and practices on prevention of mother to child transmission of HIV among pregnant mothers in second and third trimesters in Lugari sub-county, Kakamega county. ONGOING.
12. **Paul Muriithi Ngari:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Incidence and associated factors in motor cycle accidents in Embu town, Embu County. ONGOING.

### Examination of postgraduate theses

#### External examination

##### MSc Theses

1. **Nyamai Rhoda Mutono:** MSc in Environmental Governance in the University of Nairobi. Environment and Health problems associated with artisanal mining in Kenya: A case study of Macalder mines in Migori (**External Examiner**).
2. **Dr. Sheilla Ayiela Orono:** MSc Veterinary Microbiology: Assessing methods for the diagnosis and control of malignant catarrhal fever in Kapiti plains (**External Examiner**).

#### Internal examination

##### PhD Theses

1. **Jane Rahedi Ong'ang'o:** PhD in Epidemiology in Jomo Kenyatta University of Agriculture and Technology. Tuberculosis treatment adherence and cost effect analysis of utilizing community health workers in the management of the disease among urban and rural settings in Kenya (**Internal Examiner**)

2. **Alfred A. Osoro:** PhD in Public Health in Jomo Kenyatta University of Agriculture and Technology. Maternal mortality among women who sought maternity care at Kisii Level 5 Hospital, Kenya between January 2009-June 2010 (**Internal Examiner**).
3. **Ruth Laibon:** PhD in Public Health in Jomo Kenyatta University of Agriculture and Technology. Determinants of treatment adherence among male sex workers on antiretroviral therapy in Nairobi County, Kenya (**Internal Examiner**).
4. **Mary C Nandili Ishepe:** PhD in Public Health in Jomo Kenyatta University of Agriculture and Technology. Effect of civil society organizations on health nutrition and economic status of people living with HIV and Aids in Busia County, Kenya (**Internal Examiner**).
5. **Ruth Laibon:** PhD in Public Health in Jomo Kenyatta University of Agriculture and Technology. Determinants of treatment adherence among male sex workers on antiretroviral therapy in Nairobi County, Kenya (**Internal Examiner**).
6. **Joseph Lotukoi:** PhD in Public Health in Jomo Kenyatta University of Agriculture and Technology. Exposure factors associated with visceral Leishmaniasis (Kala-Azar) in Loima sub-county of Turkana County Kenya (**Internal Examiner**).

### **MSc Theses**

1. **Munyuwiny Samuel Otieno:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Factors associated with HIV risk sexual behaviour among female domestic workers in Nairobi, Kenya (**Internal Examiner**).
2. **Sophia Kongoti Musenjeri:** MSc in Medical Epidemiology in Jomo Kenyatta University of Agriculture and Technology. Factors affecting entry into care and treatment for HIV in pre-exposed infants in Mumias region, western Kenya (**Internal Examiner**).
3. **Maxwell Murage Maina:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Factors influencing management of essential hypertension among patients attending medical outpatient clinic at Thika Level Five Hospital, Kiambu County (**Internal Examiner**).
4. **Charles Kiprotich Langat:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Prevalence of and occupational factors of low back pain among tea and non-tea pickers in the tea estates of James Finlay (K) Ltd Kericho County (**Internal examiner**).
5. **Lilian Apadet Osamong:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Perceptions of healthcare on the Human Papilloma virus vaccines at selected health facilities in Nairobi, Kenya (**Internal examiner**).
6. **Agasa Sarah Kwamboka:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Assessing the health effects of solvents among workers in dry cleaning facilities in Nairobi's Central Business District (**Internal examiner**).
7. **Hilary Kagume Njenge:** MSc in Epidemiology in Jomo Kenyatta University of Agriculture and Technology. The prevalence of hepatitis B and C viruses among HIV sero-discordant couples in Kisumu County, Kenya (**Internal examiner**).
8. **Maureen A. Adoyo:** MSc in Medical Epidemiology in Jomo Kenyatta University of Agriculture and Technology. Gestational diabetes exposure factors and associated health risks in mothers and neonates enrolled for antenatal clinic in Nairobi County (**Internal examiner**).
9. **Kahindi B. Kazungu:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Factors contributing to iodide deficiency in coast region of Kenya. (**Internal examiner**).
10. **Melvin Edward D'Lima:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Distribution of anti-EBV antibodies in HIV-1 positive individuals at various stages of HIV-AIDS at Mbagathi District Hospital, Nairobi County. (**Internal examiner**).

11. **Priscilla Gathigia Njogu:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Domestic solid waste management in Gitothua Ward of Ruiru, Kiambu County (**Internal examiner**).
12. **John Kyalo Muthuka:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Risk of neonatal mortality and its association with HIV infection among post natal women attending Pumwani Maternity Hospital (**Internal examiner**).
13. **Kadivane Samuel Kazi:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Cost effectiveness of home- versus facility-based management of uncomplicated malaria in Malindi Sub-County Kenya 2012 (**Internal examiner**).
14. **Titus Nzuki Kioko:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Determination of Vaccination status of children aged 12-23 months in Katheka Kai Location, Machakos County (**Internal examiner**).
15. **Adam Hassan Haji:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Evaluation of SMS and Sticker Reminders for Reducing Dropout Rates in Routine Immunization in Selected Districts in Kenya (**Internal examiner**).
16. **Victoria Kanobe Kisaakye:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. The Impact of Sexual and Reproductive health counseling services for HIV positive women in comprehensive care centers in Langata Constituency (**Internal examiner**).
17. **Fridah Jebet Limo:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Factors associated with exclusive breastfeeding among mothers of children aged six months and below attending Baringo County Referral Hospital Kabarnet (**Internal examiner**).
18. **John Nyaga Macai:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Acute Pain Management: Prevalence and Strategies for Improvement in Nakuru County (**Internal examiner**).
19. **Dr Ketha R Francisico:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Risk factors for severe acute malnutrition among children aged 6-59 months admitted at Lubango pediatric Hospital Angola (**Internal examiner**).
20. **Jacqueline Alando Amolo:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Awareness, Attitude, and Practices of Postnatal Mothers attending Mbagathi District Hospital on Infant Feeding Options for HIV Positive Mothers (**Internal examiner**).
21. **Mabel Inyangala Gachengo:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Prevalence in dogs, cattle, sheep and goats, level of awareness and associated economic losses in Laikipia West Sub County, Kenya (**Internal examiner**).
22. **Timothy Kipkosgei:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Correlates of post-operative adverse events following voluntary medical male circumcision among clients in Migori County Hospital (**Internal examiner**).
23. **Mwagi Joseph Onyango:** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. A study to determine the prevalence and factors associated with hypertension among employees working at a call center in Nairobi Kenya (**Internal examiner**).
24. **Mark Odhiambo Obonyo.** MSc in Applied Epidemiology in Jomo Kenyatta University of Agriculture and Technology. Seroprevalence and factors associated with brucellosis in goats and sheep and assessment of farmers' knowledge attitude and practices towards brucellosis in Garissa County (**Internal examiner**).
25. **Anthony Laku Stephen Kirbak.** MSc in Public Health in Jomo Kenyatta University of Agriculture and Technology. Sero-prevalence and factors associated with Hepatitis B virus among pregnant women attending the antenatal clinic in Juba Teaching Hospital, Republic of South Sudan, 2013 (**Internal examiner**).

### Peer-reviewed publications

1. Mugabo John, Kato Njunwa, **John Gachohi**. 2018. Assessment of Factors Associated with Occupational Injuries among Municipal Solid Waste Workers' in Kigali City, Rwanda, 2016. *International Journal of Science and Research (IJSR)*, 7(10), 1386-1393.
2. Matthew Muturi, **John Gachohi**, Mwatondo A, Lekool I, Gakuya F, Bett A, Osoro E, Bitek A, Thumbi SM, Munyua P, Oyas H, Njagi ON, Bett B, Kariku Njenga M. **2018**. Recurrent Anthrax Outbreaks in Humans, Livestock and Wildlife in the Same Locality, Kenya, 2014-2017. **2018**. *American Journal of Tropical Med Hyg*. doi:10.4269/ajtmh.18-0224.
3. Beritah Mutune, **John Gachohi**, Gideon Kikui, Saliou Niassy & Christine Bii. **2018**. Knowledge and Practices of Pesticides Used against the Bean Fly (*Ophiomyia phaseoli*) and Associated Health Effects among Bean (*Phaseolus vulgaris*) Smallholder Farmers in Kabarú Location, Nyeri County. *International Journal of Health Sciences*, 6 (1), 77-89.
4. Wasike M, **J Gachohi**, J Mutai. **2017**. Factors influencing the uptake of health insurance schemes among Kibera Informal Settlement Dwellers, Nairobi, Kenya. *East African Medical Journal*, 94(10), 863-872.
5. Donald O Apat, **John M Gachohi**, Mohamed Karama, Jusper R Kiplimo, Sonia E Sachs. **2017**. Temporal variation in confirmed diagnosis of fever-related malaria cases among children under-five years by community health workers and in health facilities between years 2013 and 2015 in Siaya County, Kenya. *Malar J*. 2017 Nov 9;16(1):454. doi: 10.1186/s12936-017-2100-9.
6. Muli, J.M, **Gachohi, J.M**, Kagai, J.M., **2017**. Soil Iron and Aluminium concentrations and feet hygiene as possible predictors of Podoconiosis occurrence in Kenya. *PLOS Neglected Diseases*. 11(8): e0005864. <https://doi.org/10.1371/journal.pntd.0005864>
7. Bett, B., Kiunga, P., **Gachohi, J.**, Sindato, C., Mbotha, D., Robinson, T., Lindahl, J., Grace D. **2017**. Effects of climate change on the occurrence and distribution of livestock diseases. *Preventive Veterinary Medicine*, **137, Part B**; 119-129 doi: 10.1016/j.prevetmed.2016.11.019.
8. Fred D. Wesonga, **John M. Gachohi**, Philip M. Kitale, Joseph M. Gathuma, Munene J. Njenga, **2017**. Seroprevalence of *Anaplasma marginale* and *Babesia bigemina* infections and associated risk factors in Machakos County, Kenya. *Tropical Animal Health and Production*. doi:10.1007/s11250-016-1187-2
9. **Gachohi, J.**, S. Karanja, S. Wanyoike, N. Gitahi, S. Bukachi and K. Ngure. **2016**. Sourcing eco-epidemiological field parameters to describe a slum household-based pathogenic *Leptospira* population dynamics simulation model in Kenya: A pseudo-longitudinal study protocol. *Veterinary Sciences: Research and Reviews*, 2(3): 66-75. <http://dx.doi.org/10.17582/journal.vsr/2016.2.3.66.75>
10. **John M. Gachohi**, M. Kariuki Njenga, Philip Kitale, Bernard Bett. **2016**. Modeling vaccination strategies against Rift Valley fever in livestock in Kenya. *PLOS Neglected Tropical Diseases*. doi: 10.1371/journal.pntd.0005049
11. S.M. Kihu, **Gachohi J.M.**, Ndungu E.K., C.G. Gitao, L.C. Bebora, J.M. Njenga, G.G. Wairire N. Mainji, R.G. Wahome, R.Ireri. **2015**. Sero-epidemiology of Peste des petits ruminants virus (PPR) infection in Turkana County, Kenya. *BMC Veterinary Research*. 11:87
12. Fred D. Wesonga, **John M. Gachohi**, Philip M. Kitale, Joseph M. Gathuma, Munene J. Njenga, **2015**. *Theileria parva* infection seroprevalence and associated risk factors in cattle in Machakos County, Kenya. *Tropical Animal Health and Production*. 47, 93–101. DOI 10.1007/s11250-014-0690-6

13. **J.M. Gachohi**, P.M. Kitale, P.N. Ngumi, R.A Skilton, B. Bett. **2013**. Population attributable fractions of farm vector tick (*Rhipicephalus appendiculatus*) presence on *Theileria parva* infection seroprevalence under endemic instability. *Preventive Veterinary Medicine*, 108, 103-113.
14. John Maina Kagira, Paul Njuki Kanyari, Ndicho Maingi, Samuel Maina Githigia, Chege Ng'ang'a, **John Gachohi**, **2013**. Relationship between the prevalence of ectoparasites and associated risk factors in free range pigs in Kenya. *ISRN Veterinary Science*, Vol 2013, Article ID 650890. <http://dx.doi.org/10.1155/2013/650890>.
15. Kihu, S.M., **Gachohi, J.M.**, Gitao, C.G., Bebora, L.C., Njenga, J.M., Wairire, G.G., Maingi, N. and Wahome, R.G. **2013**. Analysis of small ruminants' pastoral management practices as risk factors of peste des petits ruminants (PPR) spread in Turkana District, Kenya. *Research Opinions in Animal and Veterinary Sciences*, 3(9): 303-314.
16. **Gachohi JM**, Bett B, Njogu G, Mariner JC, Jost CC. **2012**. The 2006-2007 Rift Valley fever outbreak in Kenya: sources of early warning messages and response measures implemented by the Department of Veterinary Services. *Rev. sci. tech. Off. int. Epiz.*, 2012, 31 (3), 877-887.
17. **J.M. Gachohi**, R.A Skilton, F. Hansen, P.M. Kitale, P.N. Ngumi, R.A Skilton, B. Bett. **2012**. Epidemiology of East coast fever in Kenya: a look into the past, present and the future. *Parasites and Vectors*, 5:194.
18. Kagira, J.M., Kanyari, P.N., Githigia, S.M., Maingi, N., Ng'ang'a, J.C., **Gachohi, J.M.** **2012**. Risk factors associated with occurrence of nematodes in free range pigs in Busia District, Kenya. *Tropical Animal Health and Production*, 44, 657-664
19. **John M. Gachohi**, Philip M. Kitale, Priscilla N. Ngumi, Rob A. Skilton. **2011**. Environment and farm factors associated with the exposure to *Theileria parva* infection in cattle under traditional mixed farming system in Mbeere District, Kenya. *Tropical Animal Health and Production*, 43, 271-277.
20. Kagira, J.M., Githigia, S.M., Ng'ang'a, J.C., Kanyari, P.W.N., Maingi, N., **Gachohi, J.M.** **2010**. Prevalence of gastrointestinal protozoa and association with risk factors in free-range pigs in Kenya. *Journal of Protozoology Research*, 20, 1-9.
21. **Gachohi, J.M.**, Ngumi, P.N., Kitale, P.M., Skilton, R.A., **2010**. Estimating seroprevalence and variation to four tick-borne infections and determination of associated risk factors in cattle under traditional mixed farming system in Mbeere District, Kenya. *Preventive Veterinary Medicine*, 95, 208-223.
22. J.M. Kagira, N. Maingi, P.W.N. Kanyari, S.M. Githigia, J.C. Ng'ang'a, **J.M. Gachohi**. **2010**. Seroprevalence of *Cysticercus cellulosae* and associated risk factors in free-range pigs in Kenya. *Journal of Helminthology*, 84, 398-403.
23. **Gachohi JM**, Bett B and Murilla GA. **2009**. Factors influencing prevalence of trypanosomiasis in Orma Boran (trypanotolerant) and Teso zebu (trypanosusceptible) cattle crosses in Teso District, western Kenya. *Livestock Research for Rural Development*, 21(12) Article No. 216. <http://www.lrrd.org/lrrd21/12/gach21216.htm>
24. Kagira J.M., Maingi N., Kanyari P.W.N., Githigia S.M., Ng'ang'a J.C., **Gachohi J.M.**, **2009**. Characteristics of pig trade in low income settings in Busia District, Kenya. *The Tropical Veterinarian*, 26: (2) 1- 9.

### Conference proceedings

1. John Gachohi, Isaac Ngere, Jacinta Muli, Jim Kagai, Kebede Deribe, Sammy Njenga, Wyckliff Omondi, Sultani Matendechero. 2018. "A journey of a thousand miles begins with a single step": The first steps of Podoconiosis research in Kenya. Presented at the First International Podoconiosis Conference held on 23<sup>rd</sup> September 2018 at Intercontinental Hotel Addis Ababa, Ethiopia.

2. Muli, J.M, **Gachohi, J.M**, Kagai, J.M., **2016**. Does podoconiosis occur in Kenya? An observational study in Nakuru County. Presented at the 10<sup>th</sup> Annual Neglected Tropical Diseases conference jointly hosted by KEMRI and MOH, NTD unit held between 8th and 9th December 2016 at KEMRI ESACIPAC Nairobi.
3. **Gachohi J.M.** and Bett B., **2015**. Rift Valley fever: influence of herd immunity patterns on transmission dynamics. Presented at the *Regional Conference on Zoonotic Diseases in Eastern Africa, held from 9<sup>th</sup> to 12<sup>th</sup> March 2015 at Enashipai Resort & Spa in Naivasha, Kenya*
4. **J. Gachohi** and B. Bett. **2014**. Predicted changes in herd immunity levels against Rift Valley fever virus in livestock following a natural exposure. Presented at *The proceedings of the 3<sup>rd</sup> Medical and Veterinary Virus Research Symposium held at Hilton Hotel, Nairobi, Kenya between 16th and 17th October 2014, Nairobi, Kenya.*
5. **J. Gachohi**, F. Hansen, B. Bett, P. Kitala. **2012**. Persistence of Rift Valley fever virus in East Africa. Presented at *the proceedings of the 13th Symposium of the International Society for Veterinary Epidemiology and Economics held at Maastricht, Netherlands between 20th and 24th August 2012, Session 46. Epidemiology of vector borne diseases. p. 122. Maastricht, Netherlands.*
6. **Gachohi JM**, Kitala PM, Skilton R. **2012**. Sequentially partitioned population attributable fraction as an estimate of impact of farm *Rhipicephalus appendiculatus* presence on *Theileria parva* infection seroprevalence In: *Proceedings of 13th KARI Biennial Conference, 22-26 October 2012, Kenya Agricultural Research Institute, KARI, Nairobi, Kenya.*
7. Jost, C.C., Jones, B., Pissang, C., Salla, A., Ahmed, E.Y., Anzaku, S., Akpele, Y., Okike, I., Diall, O., **Gachohi, J.** Mariner, J.M. **2009**. Participatory disease surveillance for highly pathogenic avian influenza in West and East Africa: a report on preliminary experiences. *Proceedings of the 12th Conference of the International Society for Veterinary Epidemiology and Economics (ISVEE XII), 10th to 14 Aug, 2009, Durban, South Africa.*
8. **Gachohi JM**, Ngumi PN, Kitala PM and Skilton R. **2008**. The prevalence of serum antibodies to East coast fever and associated risk factors in cattle in the traditional crop-livestock system in Mbeere district, Kenya: a cross-sectional study. In: *Proceedings of 11th KARI Biennial Conference and 3rd Agricultural Forum, 10-14 November, 2008, Kenya Agricultural Research Institute, KARI, Nairobi, Kenya.*
9. **Gachohi JM**, Kitala PM, Ngumi PN, Skilton R. **2008**. Evaluation of sources of variation in East Coast fever seropositivity in cattle under endemic instability in Mbeere district, Kenya. In: *Proceedings of 11th KARI Biennial Conference and third Agricultural Forum, 10-14 November 2008, Kenya Agricultural Research Institute, KARI, Nairobi, Kenya.*
10. **Gachohi JM**, Karuga J, Njenga JM, Immailuk SE and Wangula CO **2005**. Performance of Orma Boran cattle F1 offspring in a trypanosomiasis endemic area in Teso District, Western Kenya. In: *Proceedings of 28th Meeting of the International Scientific Council for Trypanosomiasis Research and Control (ISCTRC), 26-28 September 2005, Addis Ababa, Ethiopia.*
11. **Gachohi JM**, Karuga J, Njenga JM, Immailuk SE and Wangula CO. **2004**. Performance of Orma F1 offspring in a trypanosomiasis endemic area in Teso District, Western Kenya, phase II. In: *Proceedings of ninth KARI Biennial Conference, 21-29 November 2004, Kenya Agricultural Research Institute, KARI, Nairobi, Kenya.*
12. **Gachohi, J.M.**, Sulo, J.K., Njenga, J.M., Immailuk, S.E. Wangula, C.O. (**2004**): Performance of Orma F1 offspring in a trypanosomiasis endemic area in Teso District, Western Kenya, phase I. In: *Proceedings of ninth KETRI Internal Review, 31<sup>st</sup> May to 7<sup>th</sup> June, 2004, Kenya Trypanosomiasis Research Institute (KETRI), Nairobi.*

## **Poster presentations**



1. John Gachohi, Bernard Bett. **2014**. Mitigation of the Impacts of Rift Valley fever through Targeted Vaccination Strategies. *Presented at the Tropentag 2014 Conference September 17-19, 2014, Prague, Czech Republic.*
2. B. Bett, M. Said, I. Njeru, S. Kifugo, **J. Gachohi**, R. Sang, S. Bukachi, D. Grace. **2013**. Evaluating the impacts of the development of irrigation schemes in arid and semi-arid areas in Kenya on ecosystems biodiversity and its capacity to regulate infectious diseases. *Presented at the Fourth International Conference on Infectious Disease Dynamics on 19<sup>th</sup>-22<sup>nd</sup> November 2013 at NH Grand Krasnapolsky, Amsterdam, The Netherlands.*
3. **John Gachohi**, Bernard Bett, Frank Hansen, Philip Kitala. **2012**. A spatially-explicit simulation model of Rift Valley fever transmission. *Presented at the 2nd Medical and Veterinary Viral Research in Kenya (MVVR-K2) Symposium held on 18th-19th October 2012 at the PanAfric Hotel Nairobi, Kenya.*

### **Leadership roles**

- 1 2003-2005: Officer In-charge: veterinary section Alupe center, KARI
- 2 2015 to date 2016 – Examinations coordinator, SoPH

### **Public and Media Engagement**

Runs a series of occurrence of zoonotic diseases in humans and animals in *Inooro TV*

### **References**

#### **1. Professor Phillip M. Kitala, PhD.**

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#### **2. Professor Simon Karanja, PhD**

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