

CURRICULUM VITAE

PROF. JAMES KIHANG'A WABACHA
B.V.M, MSc., Ph.D, MKVA

June 2013

A. PERSONAL INFORMATION

1. **NAME:** Prof. Dr. James Kihang'a Wabacha,
2. **ADDRESS:** University of Nairobi
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3. **DATE OF BIRTH:** 15th November 1961.
4. **PLACE OF BIRTH:** Kiharu, Murang'a District, Kenya
5. **NATIONALITY:** Kenyan
6. **GENDER** Male
7. **LANGUAGES:** English, Kiswahili, Kikuyu
8. **MARITAL STATUS:** Married
9. **RELIGION:** Christian

B. SUMMARY OF MY EXPERIENCE AND SKILLS

Education: BVM, MSC, PhD.

Experience in Teaching/ Training and capacity building: I have developed competence of students in the areas of clinical veterinary medicine and herd production medicine through lectures, practical, seminars/case presentations and demonstrations for over the last 20 years at the Department of Clinical Studies, Faculty of Veterinary

Medicine, University of Nairobi. I have also experience in developing training content and applying appropriate delivery methods based on the context and audience needs, and preferences and in particular, I have undertaken trainings for livestock stakeholders with a problem-oriented approach.

Knowledge, experience in animal health management: I have taught and practiced clinical and herd production medicine in food animals for over 25 years. I have also taken several courses in management of animal diseases including the use of Standard Methods and Procedures for animal disease control at the Borlaug Institute for International Agriculture, Texas AgriLife Research, the Texas A&M University System, United States of America. I have also previously worked with the Ministry of Livestock Development Kenya as a Veterinary Research Officer where I gained experience in disease outbreak investigation and disease surveillance.

Experience and skills in research and publications: *I have over 25 years of progressive experience in animal health research and have designed and implemented animal health projects funded by among others, Kenya Agricultural Research Institute (KARI), DFID, Wellcome Trust and International Foundation for Science. I have skills and experience in research study design, data collection, analysis and interpretation of data. I have excellent presentation skills of research findings both in written and oral formats. Some of the research topics I have designed and implemented include:*

- *The prevalence of Human Brucellosis among patients attending Health Facilities in Nairobi with special emphasis in Kibera, Department of International Development (DFID), Livestock Production Programme, 2005*
- *An analysis of community health risks in relation to zoonoses from livestock keeping in slum setting in Nairobi, Department of International Development (DFID), Livestock Production Programme, 2004.*
- *The therapeutic efficacy of Buvonal® for the treatment of Naturally acquired East Coast Fever (ECF) (Report on file , Parnell Laboratories (Aust) Pty Ltd, www.parnell.biz) (2004)*
- *The therapeutic efficacy of Parvonl® for the treatment of Naturally acquired East Coast Fever (ECF) (Report on file , Parnell Laboratories (Aust) Pty Ltd, www.parnell.biz) (2005).*
- *Livestock for Life in urban and peri-urban environs in Kenya (LLUPEK) project. Funded by Wellcome Trust (2005)*
- *Factors affecting uptake and adoption of preventive medicine practices on pig parasitic diseases in smallholder farms in Kenya, International Foundation for Science (IFS) (2001).*
- *Factors Influencing Pig Health and Productivity and Economics of Intervention. Agricultural Research Fund (ARF) of the Kenya Agricultural Research Institute (KARI) (1999).*

I have published over 40 publication and I am a reviewer for several journals in the area of my specialisation.

Knowledge, experience and skills in the field of epidemiology/preventive veterinary medicine: *I am knowledgeable and experienced in the use of epidemiological tools in research design, implementation and analysis. My PhD thesis entitled ‘A study of Factors influencing pig Health, Productivity and economic of Interventions in Smallholder pig Farms in Kikuyu Division, Kiambu District Kenya’ involved the use of qualitative and quantitative epidemiological tools. Over the years I have designed and implemented projects in areas of epidemiology and I have published many papers in epidemiology in peers reviewed journals including three papers in preventive Veterinary Medicine, an international journal on research and development in veterinary epidemiology, animal disease prevention and control and animal health economics with an impact factor of 2.277.*

Knowledge, experience and skills in stakeholder engagement: *Most of the research projects I have implemented have involved stakeholder engagement, mainly through multi-stakeholder discussion platforms, focus group discussions, and direct interviews among others. In the recent past we have implemented a project ‘Livestock in Urban and Peri-urban Environs in Kenya (LUPEK)’ funded by Wellcome Trust. The project worked directly with stakeholders from Government (Central and Local), academia and research Institutes, private sector (traders and input providers) and communities (including livestock keepers, community based public and animal health practitioners). The action research also generated research knowledge on levels of livestock ownership, why they were kept, disease prevalence and levels of knowledge in urban areas. This information was used to design training interventions and was used as basis for advocacy with local authorities and for the formulation of a policy paper with stakeholders. The following projects have also involved in-depth stakeholder’s engagement:*

- *The prevalence of Human Brucellosis among patients attending Health Facilities in Nairobi with special emphasis in Kibera, Department of International Development (DFID), Livestock Production Programme, 2005*
- *An analysis of community health risks in relation to zoonoses from livestock keeping in slum setting in Nairobi, Department of International Development (DFID), Livestock Production Programme, 2004.*
- *The Somali Livestock Certification Project*
- *The Standard Methods and procedures in Animal Health(SMP-AH)*

Management and administrative experience and skills: *I have experience in managing people for results having worked as the Chairman of the Department of Clinical Studies, Faculty of Veterinary medicine, University of Nairobi, for six years. In this position I was the academic and administrative head of the department and was involved in strategic planning for the department; management and administration of personnel and management and administration of large and small animal hospital. I have also served in many committees and Boards at the Department, Faculty and at the University level.*

Knowledge, experience and skills in veterinary service delivery:

I have practised clinical veterinary medicine for over 25 years and I have a good insight and experience in veterinary service delivery. I have a keen interest in veterinary service delivery and I have published a book Chapter on veterinary service delivery entitled “Community based animal Health in Kenya: Kenya’s experiences in re-engineering its structural, policy and legal frameworks”. I have a good understanding of the components necessary for an effective veterinary service delivery as defined by World organisation of Animal Health (OIE) having successfully coordinated the implementation of the Self Assessment Performance of Veterinary Services (PVS) in Somaliland, Puntland and Central South Somalia through the SOLICEP project. The assessment was based on; human, physical and financial resources; technical capability; interaction with stakeholders and access to markets. The findings from the assessments were used to create innovative delivery systems given the identified gaps.

Knowledge, experience and skills in project management: I have been a manager for several livestock development projects including the Somali Livestock Certification Project (SOLICEP) and a USAID-funded project, Standard Methods and Procedures in Animal health (SMP-AH) aimed at promoting coordination and harmonisation of disease control for trade-related transboundary animal diseases (TADs) in the Greater Horn of Africa. In these responsibilities, I have been involved in project design, provision of project direction and management and coordination among various actors

I have also previously supported the implementation the North Eastern Development Project (NEPDP) whose aim was to increase household incomes and food security in North Eastern Province and Tana River District of Kenya through building the capacity of key local institutions and individuals in order to strengthen livestock marketing, disease control and access to animal health care. I am also the Focal point for the International Scientific Council for Trypanosomiasis Research and Control (ISCTRC) at AU-IBAR. Previously I was the Technical adviser for the AU-IBAR/Terra Nuova joint projects; the Sheikh Technical Veterinary School III and the Regions of Origin III Projects.

International experience in livestock health and development: *In the last four years I have been working with countries in the Greater Horn of Africa to implement sanitary measures to facilitate trade in livestock and livestock products in the region and with livestock trading partners in the Middle East. Currently, I am on leave of absence, working with the Interafrican Bureau for Animal Resources (AU-IBAR), a technical office of the African Union Commission in charge of livestock development in Africa. At AU-IBAR I have been a manager for several livestock development projects including the Somali Livestock Certification Project (SOLICEP) and a USAID-funded project, Standard Methods and Procedures in Animal health (SMP-AH) aimed at promoting coordination and harmonisation of disease control of trade-related TADs in the Greater Horn of Africa.*

Other competencies: *I have experience with several computer applications including word processing, use of databases and use of statistical software for data management and analysis. I communicate effectively and I have good written and oral communication skills. My interpersonal skills are excellent*

C. EDUCATIONAL BACKGROUND

1. Primary School Education

Kiruri primary school (1969-1975): Qualification- Certificate of primary education (CPE)

2. Secondary School Education

Kiruri Secondary School (1976-1979): Qualification- "O" Levels

3. Advanced level Education

Kagumo High School (1980-1981): Qualification- "A" levels

D. PROFESSIONAL BACKGROUND/TRAINING

1. Undergraduate Studies, University of Nairobi (1983-1987):

Award: Bachelor of Veterinary Medicine (BVM) (1987).

2. Postgraduate Studies

(i) Master of Science, Free University of Brussels (VUB), Belgium (1989-1991).

Gene regulation associated with differentiation to procyclic trypanosomes

(ii) Ph.D (Clinical veterinary Studies), University of Nairobi (1997-2001).

A study of Factors Influencing pig Health, Productivity and economic of Interventions in Smallholder pig Farms in Kikuyu Division, Kiambu District Kenya

E. WORK EXPERIENCE

1. CURRENT POSITION

Coordinator of the Standard Methods and Procedures in Animal Health (SMP-AH) project

Focal point for the International Scientific Council for Trypanosomiasis Research and Control (ISCTRC) at AU-IBAR.

Associate Professor of Clinical and Herd production Medicine at the University of Nairobi (**On Leave of Absence**)

2. PREVIOUS assignments

- (i) *Currently, Project manager the USAID-Funded, Standard Methods and Procedures in Animal Health (SMP-AH) project with a budget of USD 7,750,000. The project is supporting coordination and harmonisation of disease control for trade-related transboundary animal diseases in the Greater horn of Africa. My responsibilities include:*
- *Coordinating project implementation*
 - *Ensuring effective communication among implementing partners*
 - *Building positive relationships among stakeholders.*
 - *Creating and maintaining contacts with relevant stakeholders*
 - *Preparation of work plans*
 - *Managing budgets;*
 - *Monitoring project activities*
 - *Preparation of reports*
 - *Facilitating workshops*
- (ii) *Previously was Project Manager for the EU-Funded Somali Livestock Certification Project (SOLICEP) whose budget was Euro3, 111,239.*
- (iii) *Technical adviser of the AU-IBAR Terra Nuova joint projects; Sheikh Technical Veterinary school III and the Regions of Origins III*
- (iv) *Supported the implementation of the North Eastern Development Project (NEPDP) at AU-IBAR whose aim was to increase household incomes and food security in North Eastern Province and Tana River District of Kenya through building the capacity of key local institutions and individuals in order to strengthen livestock marketing, disease control and access to animal health care.*
- (v) Research Officer II
Ministry of Livestock Development
Government investigation laboratories, Kabete,
Kenya, July 1987-August 1988.
- (vi) **Assistant lecturer**
Department of Clinical studies

University of Nairobi, 1988-1992

- (v) **Lecturer**
Department of Clinical studies
University of Nairobi, 1992-2002

- (vi) **Senior lecturer**
Department of Clinical studies
University of Nairobi, 2002 to 2007

- (vii) **Associate Professor**
Department of Clinical Studies
Faculty of Veterinary Medicine
University of Nairobi, 2007 to-date

- (viii) Acting chairman (on various occasions during 2002 and 2003)
Department of Clinical studies
University of Nairobi

- (ix) Chairman
Department of Clinical studies
University of Nairobi, March 2003 to March 2009

- (x) Acting Dean (on various occasions)
Faculty of Veterinary Medicine
University of Nairobi

- (xi) Acting Principal, College of agriculture and Veterinary Sciences on several occasions.

F. TEACHING, RESEARCH AND ANIMAL HEALTH MANAGEMENT

1 TEACHING EXPERIENCE

(i) Undergraduate students;

Responsibilities

- Develop competence of students in the areas of clinical veterinary medicine and herd production medicine through lectures, practical, seminars/case presentations and demonstrations for over 2 years.
- Academic and professional mentorship of student.

- Coordinator of animal health and hygiene course (1994 to1996).
- Coordinator herd health programmes (1994-1997).
- Head of Medicine section (2001-2003).
- Internal examiner in the Department of Clinical Studies

(ii) Postgraduate students

Responsibilities

- Teaching of clinical veterinary medicine and herd production medicine to students taking the Masters programme in Clinical Studies.
- Teaching of swine herd health and production management to post-graduate students taking Masters programme in Veterinary epidemiology and economics.
- Internal examiner for the two courses.

(iii) Postgraduate student supervision

Responsibilities

- Guiding post-graduate students through their research projects and theses preparation
- Five (5) Masters students
- Four (4) PhD Students

Masters:

- Dr. T. O. Abuom
Peripartum conditions in Dairy Cattle in Kikuyu Division of Kiambu District, Kenya (2003-2005) – **Completed.**
- Dr. P. N. Gitonga
Formulation of a reproductive tract score Chart as a predictor of continued Fertility in Postpartum dairy cows in medium to large scale dairy farms (2005 to-date)- **Completed**
- Dr. V. Kyalo.
Assessment of cow and farm-level factors associated with milk rejection at dairy cooperatives in peri-urban Nairobi. (2006-2009) - **Completed.**
- Dr Jane Khayesi Lwoyero.
The comparison of tests used to diagnose human brucellosis in Health Facilities in Kibera (2006-2009) - **Completed**

- (e) Dr. Miriam Jepkosgei Nakeel
A serological survey of brucellosis, q-fever and leptospirosis in livestock and humans and their associated risk factors in Kajiado county- **Data Collection**

Ph.d Research thesis/projects

- (a) Dr. J. M. Nguhiu
Characteristics of laminitis and associated claw lesions in dairy cows in Nairobi and its environs (2004-2007) - **Completed**
- (b) Dr. D.N. Karanja
A study of Edema Disease and other Escherichia Coli infections of pigs in Smallholder farms in Kiambu District, Central Kenya. (2004- 2009) - submitted for examination - **Completed**
- (c) Dr. J. M. A Kitaa
Clinical, Cytological, Serological and Molecular Evaluation of Ehrlichial Infections in Dogs and Cats in Nairobi and Periurban Areas of Kenya (2005-to-date) - **Data collection**
- (d) Dr. Tequero Abuom Okumu Nairobi
Infectious Abortion And Associated Risk Factors In Dairy Cattle Farms in Nakuru District, Kenya (2008 -to-date)- **Data analysis and write up**

(iv) Examination of postgraduate theses

- (a) Maina Alice Ngonyo
Prevalence, intensity and lesions associated with gastro-intestinal parasites of indigenous chickens in Kenya (Msc -2005).
- (b) Esther Wafula Nyongesa
Survey of mange infestation in goats and possible relationship with contagious caprine pleuropneumonia (CCPP) in Turkana District, North-Western Kenya (Msc-2006).
- (c) Thomas Manyibe Nyariki
The pathology in common warthog (*Phacochoerus africanus*), Cattle (*Bos indicus*) and African Buffalo (*Syncerus caffer*) experimentally infected with African lineages I and II isolates of Rinderpest virus. (Msc- 2006).

- (d) Dr. Zephania Alex Sabuni
Prevalence, Intensity and pathology of Ecto and Haemoparasites Infections in Indigenous Chickens in Eastern Province of Kenya. (Msc -2009)
- (e) Dr. Ojigo David Owino
A survey on socio—economic characteristics associated with urban dairy farming in Dagoretti Division, Nairobi Kenya. (MSc -2009)
- (v) **Member of Board of Examiners for the following theses:**
 - (a) Maina Alice Ngonyo
Prevalence, intensity and lesions associated with gastro-intestinal parasites of indigenous chickens in Kenya.
 - (b) Esther Wafula Nyongesa
Survey of mange infestation in goats and possible relationship with contagious caprine pleuropneumonia (CCPP) in Turkana District, North-Western Kenya.
 - (c) Thomas Manyibe Nyariki
The pathology in common warthog (*Phacochoerus africanus*), Cattle (*Bos indicus*) and African Buffalo (*Syncerus caffer*) experimentally infected with African lineages I and II isolates of Rinderpest virus.
 - (d) Isaac Mpapuluu Ole Mapeny
An assesement of antimicrobial usage and occurrence of antibiotimicrobial resistance in Escherichia Coli in food Animals in Kenya and Public health Implications
 - (e) Stephen Karimi Kibiru
Calf Health and production Under Maasai Pastoral Systems in the Southern Rangeland of Kenya
 - (f) Bernard Bett
Evaluating the Impact of a Tsetse-Repellant Technology on the Incidence of Trypanosomosis in Cattle Managed Under Pastoral Production Systems in Kajiado and Narok Districts, Kenya.
- (vi) **Curriculum development**
 - (a) Co-ordinator- Development of the Syllabus and regulations for Diploma programme in Animal Health and production
 - (b) Member of review and revision committee for the Bachelor of Veterinary Medicine programme

- (c) Co-ordinator- Development of the Syllabus and regulations for Diploma programme in dairy herd management
- (d) Postgraduate programme in Medicine

(v) **External examiner**

- (a) External examiner for Bachelor of Veterinary Medicine degree programme - Makerere University (2005).

2 EXPERIENCES IN RESEARCH AND CONSULTANCY

- (i) *I have undertaken research in the areas of clinical veterinary medicine and herd production medicine, including zoonoses; infectious and non-infectious diseases limiting production; factors of risk and vulnerability in animals and humans and delivery of animal health information.*

Recently, with a team from Royal Veterinary College, University of London, we have undertaken a research study on animal health certification methods for live animal export from Somalia.

(ii) RECENT FUNDING FOR RESEARCH AND CONSULTANCIES

- (a) **Principle Investigator:** *The prevalence of Human Brucellosis among patients attending Health Facilities in Nairobi with special emphasis in Kibera*, Department of International Development (DFID), Livestock Production Programme, 2005.
- (b) **Co-investigator:** An analysis of community health risks in relation to zoonoses from livestock keeping in slum setting in Nairobi, Department of International Development (DFID), Livestock Production Programme, 2004.
- (c) **Co-investigator:** The therapeutic efficacy of Buvonal® for the treatment of Naturally acquired East Coast Fever (ECF) (Report on file , Parnell Laboratories (Aust) Pty Ltd, www.parnell.biz) (2004)
- (d) **Co-investigator:** The therapeutic efficacy of Parvonl® for the treatment of Naturally acquired East Coast Fever (ECF) (Report on file , Parnell Laboratories (Aust) Pty Ltd, www.parnell.biz) (2005).
- (e) **Co-Investigator:** Livestock for Life in urban and peri-urban environs in Kenya (LLUPEK) project. Funded by Wellcome Trust (2005).
- (f) **Principle Investigator:** Factors affecting uptake and adoption of preventive medicine practices on pig parasitic diseases in smallholder farms in Kenya, International Foundation for Science (IFS) (2001).

- (g) **Principle Investigator:** Factors Influencing Pig Health and Productivity and Economics of Intervention. Agricultural Research Fund (ARF) of the Kenya Agricultural Research Institute (KARI) (1999).

(iii) **COLLABORATIVE PROJECTS/PROPOSALS AND LINKAGES AIMED AT CAPACITY BUILDING.**

The following are collaborative projects/proposals and memoranda where I have played an active role:

- (a) Kenya Agricultural productivity Project (KAPP). Third Cycle of Competitive Grant Funding (REF. KAPP 07/2RC): Countering the threat of anthelmintic resistance and improving helminth control for enhanced and sustainable sheep and goats production in Kenya (Submitted in July 2007 to KAPP for funding).

AIM: Enhanced dissemination and utilization of sheep and goat farmers' and animal health service providers' knowledge and information for promoting increased agricultural productivity.

- (b) ACP-EU Collaborative programme in higher education (ENDULINK): The Masters course in transboundary animal disease management (Submitted to ACP-EU cooperation programme in higher education for funding).

Aim:- The project is aimed at Capacity building in the field of transboundary disease control and prevention and to increase Inter-Institutional Networking in Eastern Africa.

Applicant: AAU- Ethiopia is the applicant and the following are the partner Countries, Kenya, Sudan, Uganda and Germany.

The MTADM: Joint Master Programme in Transboundary Animal Disease Management whose duration is 36 months was approved for funding at €395,952.00 in August 2007.

- (c) Preparation of memorandum of understanding (MOU) between University of Nairobi and KSCPA-Donkey Sanctuary on Donkey Health and Welfare.

From this activity, the KSCPA-Donkey Sanctuary established a donkey Resource Centre at the Department of Clinical Studies through the link.

- (d) Preparation of memorandum of understanding (MOU) between University of Nairobi and World society for Protection of Animals (WSPA).

WSPA provided funding for facilitating the Implementation workshop for the development of the Animal Welfare component of the revised Veterinary undergraduate curriculum. WSPA also donated equipments through the link.

- (e) Preparation of memorandum of understanding (MOU) between University of Nairobi and Ministry of Livestock and Fisheries Development.

3 ANIMAL HEALTH MANAGEMENT

- (i) I am a practising veterinary clinician in large animal clinical veterinary medicine and Preventive Veterinary medicine.

4 PERFORMANCE IN ACADEMIC AND PROFESSIONAL DUTIES

My overall performance at the university of Nairobi and at AU-IBAR has been rated as good to exceeding expectation.

G MANAGEMENT AND ADMINISTRATIVE EXPERIENCES

1. Chairman Department of clinical studies (March 2003 – March 2009)

Responsibilities

- Academic and administrative head of the department.
- Strategic planning for the department.
- Management and administration of personnel.
- Management and administration of large and small animal hospital.
- Acting dean on several occasions.

Results/Outputs:

- Review of curricula
- Staff mobilisation to prepare a proposal for acquisition of an X-Ray equipment from DAAD worth Kshs 1.6million. (Equipment already at the Department).
- Staff mobilisation to prepare a proposal for acquisition of an ultrasound equipment from DAAD with partial support from the University of Nairobi worth Kshs 1.28million (Equipment already at the Department).
- Acquisition of heavy duty printers for the Department through my research funding (worth Kshs190,000)
- Acquisition of blood cell analyser and spectrophotometer from the University of Nairobi.
- Staff development.
- Smooth running of academic programmes.
- Cohesiveness of members of staff.

H Membership of Departmental/ Faculty/ College/University committees

- Member of the University of Nairobi senate.
- Member of College Academic Board.
- Member of Board of the Faculty of Veterinary Medicine.
- Chairman of the Board of the Department of Clinical Studies.
- Senate representative to the University of Nairobi Housing allocation committee.
- Chairman of the departmental strategic planning committee.
- Acting co-ordinator, field attachment practice for the veterinary students (1998/99).
- A member of the Faculty of Veterinary Medicine Strategic planning committee.
- A member of a committee established by the Principal (CAVS) and the Faculty of Veterinary Medicine to manage outbreaks of Foot and Mouth Disease at the Faculty farm Kanyariri in October/November 1998 and June /July 1999.
- A member of the Faculty Farm Management committee 2005 to date.
- Chairman, Faculty of Veterinary Medicine Biennial Scientific Conference organizing committee, 2004 to date
- Chairman, Departmental Income Generation Committee from August 2005.
- Chairman, Faculty committee on establishment of a Centre for Animal Resources and emerging and re-emerging diseases.
- Member, College of Agriculture and Veterinary Sciences ISO committee.

I. Publications

I1. THESES

1. Wabacha, J.K. (1991). Gene regulation associated with differentiation to procyclic trypanosomes (Msc Thesis).
2. Wabacha, J.K. (2001). A study of Factors Influencing pig Health, Productivity and economic of Interventions in Smallholder pig Farms in Kikuyu Division, Kiambu District Kenya (Ph.D Thesis).

I2. PEER-REVIEWED JOURNAL PAPERS

3. C. De Greef, E. Chimfwembe, **J.K. Wabacha**, E.B. Songa, and R. Hamers (1992). Only the serum -resistant bloodstream forms of *Trypanosoma brucei rhodesiense*

- express the serum resistance associated (SRA) protein. *Ann. Soc. Beig. Med. Trop.*72(1): 13-21.
4. **J.K. Wabacha**, C.M. Mulei, G.K. Gitau, and A.G. Thaiyah (1994). Antibiotic sensitivity of bacterial organisms isolated from eye swabs of cattle with infectious keratoconjunctivitis (pink eye). *Indian Journal of animal science* 64(7): 739-741.
 5. **J.K. Wabacha**, G.K. Gitau, J.M. Nduhiu, A.G. Thaiyah, 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. *Journal of South African Veterinary Association* 69(2): 61-63
 6. **J.K. Wabacha**, G.K. Gitau, L.C. Bebor, C.O. Bwanga, Z.M. Wamuri and P.M.F. Mbithi (1998). Occurrence of dermatomycosis (ringworm) due to *Trichophyton Verrucosum* in dairy calves and its spread to animal attendants. *Journal of South African Veterinary Association* 69(4): 172-173.
 7. J.M. Maribei, **J.K. Wabacha**, E.M. Njoroge (1999). Streptococcal meningitis in a five months old lamb. *Journal of South African Veterinary Association* 70 (1): 2.
 8. S.J.M.Munyua, D.I. Karioki, D.M. Chibeu, **J.K. Wabacha**, A.G. Thaiya, and J.M. Njenga, J.M. Gathuma, B. Mitaru, B (2000). Prognostic indicators of postpartum viability of kids born of *E. coli* vaccinated or unvaccinated does. *Journal of south Africa Veterinary Association* 71(1): 47-52.
 9. **J. K. Wabacha**, J.M. Maribei, A.G. Thaiya, S.J.M. Munyua, D.N. Karanja and E.M. Njoroge(2001). Progressive atrophic rhinitis in a medium scale pig farm in Kiambu, Kenya. *Journal of South Africa Veterinary Association*. 71(2): 122-124.
 10. **J.K. Wabacha**, C.M. Mulei, J.M. Maribei and M.N. Kyule (2001). Farm demographics and pig management practices of smallholder pig farms in Kikuyu Division, Kiambu District. *The Kenya Veterinarian* 22: 72-75.
 11. **J.K. Wabacha**, C.M. Mulei, J. M. Maribei and P.M.F. Mbithi (2001). Occurrence of Clinical dermatophilosis in Zero-grazed Dairy Cattle. *The Kenya Veterinarian* 21: 43-44.
 12. C.M. Mulei, T.A. Ngatia and **J.K. Wabacha** (2001). Epidemiological, Clinical and Pathological findings of Oedema disease of Swine in Kenya. *The Kenya Veterinarian* 22: 79-81.
 13. C.M. Mulei, **J.K. Wabacha** and P.M.F. Mbithi (2001). Short-term Economic impact of Foot and Mouth disease outbreak in a large dairy Farm in Kiambu District, Kenya. *The Kenya Veterinarian* 22: 76-78.

14. **J.K. Wabacha**, C.M. Mulei (2001). The economic impact of progressive atrophic rhinitis in grower -finisher pigs in a medium- scale piggery in Kenya. Bull. Anim. Hlth and Prod. Afr. 48:189-191.
15. T.A. Ngatia, C.M. Mulei, P.K. Gathumbi and **J.K. Wabacha** (2001). Oedema disease of swine: A toxemia or an infectious disease? Bull. Anim. Hlth and Prod. Afr. 49: 292-298.
16. **J.K. Wabacha**, C.M. Mulei, M.N. Kyule, K. H. Zessin, E.H. Weda, and J.M. Maribei (2002). Prevalence of Sarcoptic mange in pigs in smallholder herds in a peri-urban area in Central Kenyan highlands. Bull. Anim. Hlth. Prod. Afri. 50:9-14.
17. **J.K. Wabacha**, C.M. Mulei, M.N. Kyule, K. H. Zessin, P.M.F. Mbithi, W.K. Munyua and J.M. Maribei (2004). Helminthosis in smallholder pig herds in Kikuyu Division, Kiambu District, Kenya. Kenya Veterinarian 26:29-34.
18. **J.K. Wabacha**, J.M. Maribei, C.M. Mulei, M.N. Kyule, K.H. Zessin, W. Oluoch-Kosura (2004). Characterisation of Smallholder pig Production in Kikuyu Division, Central Kenya. Prev. Vet. Med. 63: 183-195.
19. **J.K. Wabacha**, J.M. Maribei, C.M. Mulei, M.N. Kyule, K.H. Zessin, W. Oluoch-Kosura (2004). Health and Production measures for Smallholder pig Production in Kikuyu Division, Central Kenya. Prev. Vet. Med. 63: 197-210.
20. E.G.M. Mogo, **J.K. Wabacha** (2005) P.M.F. Mbithi, S.G. Kiama. An overview of animal welfare issues in Kenya. Kenya Veterinarian 29:48-52.
21. J.M.A. Kitaa, C. Mulei, J.D. Mande, **J.K. Wabacha** (2005). Clinical, Laboratory diagnosis and treatment of Ehrlichial infections in dogs: Kenya Veterinarian 29:71-75.
22. **J.K. Wabacha**, N.P. Gitonga, M.J. Njenga, A.G.Thaiyah and C.M. Mulei (2006). An outbreak of acute bovine dermatophilosis in a large scale dairy herd in Kenya. Bull. Anim. Hlth. Prod. Afri. **54:144-147**.
23. **J.K. Wabacha**, J.M. Maribei, C.M. Mulei, M.N. Kyule, K. H. Zessin, W. Oluoch-Kosura (2006). Evaluation of alternative health interventions against sarcoptic mange and gastro-intestinal nematodes in smallholder pig herds in Kenya. Bull. Anim. Hlth. Prod. Afri. 54:82-91.
24. V.T. Tsuma, K. mbai, P.N. Gitonga, T.O. Abuom, S.M. Ndurumo, C.O. Bwanga, **J.K. Wabacha** (2006). Fertility of zero-grazed dairy cattle following hormone treatment and fixed-time artificial insemination. Kenya Veterinarian 30: 68-72.

25. **J.K. Wabacha**, C.M Mulei, N.P Gitonga, M.J, Njenga, A.G Thaiyah and J. Nduhiu (2007) . Atypical dermatophilosis of sheep in Kenya. *Journal of South Africa Veterinary Association* 78(3): 178-181
26. J. Nguhiu-Mwangi, P.M.F. Mbithi, **J.K. Wabacha**, P.G. Mbutia (2008). Radiographic features of laminitic claws of dairy cows around Nairobi. *Kenya Veterinarian* 31: 72
27. J. Nguhiu-Mwangi, P.M.F. Mbithi, **J.K. Wabacha**, P.G. Mbutia (2008). Retrospective study of foot conditions in dairy cows in urban and periurban areas in Kenya". *Israel Journal of Veterinary Medicine* 63: 40-45
28. J. Nguhiu-Mwangi, P.M.F. Mbithi, **J.K. Wabacha**, P.G. Mbutia (2008). Factors associated with occurrence of claw disorders in dairy cows under smallholder production systems in urban and peri-urban areas of Nairobi, Kenya. *Veterinarski ARHIV* 78:343-355.
29. J. Nguhiu-Mwangi, P.M.F. Mbithi, **J.K. Wabacha**, and P.G. Mbutia. Haemorrhagic sole is the most definitive diagnostic and distinguishing sign of subclinical and chronic laminitis in cattle. *Bulletin of animal Health and production* 55: 226-230.
30. D.W. Gakuya, C.J. Ng'ang'a, D.N. Karanja, **J.K. Wabacha** and M.N. Mutune (2007). Multiple anthelmintic resistance on sheep farm in Kenya and its implication for helminth control. *Bulletin of Animal Health and Production in Africa* 55: 226-230
31. G.K. Gitau, **J.K. Wabacha**, C.M. Mulei, S. Ndurumo and J.M. Nduhiu (2011). Isolation rates and antimicrobial sensitivity patterns of bovine mastitis pathogens in peri-urban area of Nairobi, Kabete, Kenya. *Ethiopian Veterinary Journal* 15 (1): 1-13.
32. T.O Abuom, M.J. Njenga, **J.K. Wabacha**, V.T. Tsuma and G.K. Gitau (2012). Incidence and risk factors of periparturient conditions in smallholder dairy cattle herds in Kikuyu Division of Kiambu District, Kenya. *Ethiopian Veterinary Journal* 16 (2): 85-102.
33. Elnaker, Y. F; Zakaria, M; El-Beskawy, M ; El-Sawalhy A.A.; and Wabacha J.K.(2013) Seroprevalence of FMD in cattle, sheep and goats in Somaliland. **Accepted** for publication. *Bulletin of Animal Health and production*.
34. T. J. D. Knight-Jones, F. Njeumi, A. Elsalwalhy, **J. Wabacha** (2013). Risk assessment and cost-effectiveness of animal health certification

Methods for export livestock in Somalia. **Accepted for Publication.** Preventive Veterinary Medicine

I3 Contribution to Book Chapters

35. S.J.M. Munyua and **J.K. Wabacha**. Community based animal Health in Kenya: Kenya's experiences in re-engineering its structural, policy and legal frameworks. In "The IDL Group (2003), Community based animal health workers- Threat or opportunity?" The Cromwell press, Aintree Avenue, White Horse Business park, Trowbridge, Wiltshire BA 14 OXB, UK. **(ISBN 0-9528061-4-2), pp 135-148.**

36. J. Nguhiu-Mwangi, P.M.F. Mbithi, **J.K. Wabacha** and P.G Mbutia (2012). Risk (Predisposing) Factors for Non- Infectious Claw Disorders in Dairy Cows Under Varying Zero-Grazing Systems, A Bird's-Eye View of Veterinary Medicine, Dr. Carlos C. Perez-Marin (Ed.), ISBN: 978-953-51-0031-7, InTech, Available from: <http://www.intechopen.com/books/a-bird-s-eye-view-of-veterinary-medicine/risk-predisposing-factors-for-noninfectious-claw-disorders-in-dairy-cows-under-varying-zero-grazing>

I4 Papers in scientific proceedings

37. J.K. Wabacha, C. De Greef, E.B. Songa, and R. Hamers. The resistant specific MRNA is lost during transformation of the serum resistant Trypanosoma brucei rhodesiense into procyclic form. Proceedings of the African Regional Symposium on Biotechnology for Rapid Development, Nairobi, Kenya, 17th - 21st, February, 1992. pp 240-242.

38. J.K. Wabacha, E.B.Songa, B. Najib. I. Roditi and R. Hamers. Procyclin gene activation in Trypanosoma Evansi. Proceedings of the African Regional Symposium on Biotechnology for Rapid Development ,Nairobi, Kenya, 17th - 21, February, 1992. pp 233-239.

39. S.J.M. Munyua, S.J. Kassim O. Farah and J.K. Wabacha. Alternative Veterinary Service Delivery Systems In Arid and Semi-Arid Areas of Kenya: Suggested Satructural, Policy and Legal Amendments. Proceedings of PINEP National Workshop, ' Sustainable Pastoral Production Systems and Environmental Securities in the Drylands of North -eastern Kenya' 14-15th October 1999; Machakos, Kenya pp 79-95.

I 5 Papers Read in Scientific conferences

40. J.K. Wabacha, G.K. Gitau, J.M. Nduhiu, A.G. Thaiyah, P.M.F. Mbithi and S.J.M. Munyua. An outbreak of urticarial form of swine erysipelas in a medium -scale piggery in Kiambu district, Kenya. Kenya Veterinary Association Central branch Scientific Seminar, 16th - 17th October, 1997, Nyeri, Kenya.
41. J.K. Wabacha, G.K. Gitau, L.C. Bebora, C.O. Bwanga, Z.M. Wamuri and P.M.F. Mbithi. Occurrence of dermatomycosis (ringworm) due to *Trichophyton Verrucosum* in dairy calves and its spread to animal attendants. Kenya Veterinary Association Annual Scientific Conference, 22nd - 24th April, 1998), Embu, Kenya.
42. J.K. Wabacha, G.K. Gitau, J.M. Nduhiu, A.G. Thaiyah, 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, Kenya. 5th -7th August 1998.
43. C.M. Mulei, J.K. Wabacha and P.M.F. Mbithi. Short-term Economic impact of Foot and Mouth disease outbreak in a large dairy herd in Kenya. Kenya Veterinary Association Annual Scientific Conference, 26th - 28th April, 2000), Mombasa, Kenya.
44. C.M. Mulei, T.A. Ngatia and J.K. Wabacha. Epidemiological, Clinical and Pathological findings of Oedema disease of Swine in Kenya. Kenya Veterinary Association Annual Scientific Conference, 26th - 28th April, 2000), Mombasa, Kenya.
45. J.K. Wabacha, C.M. Mulei, J. M. Maribei and P.M.F. Mbithi. Occurrence of Dermatophilosis in Zero-grazed Dairy Cattle. Kenya Veterinary Association Annual Scientific Conference, 26th - 28th April, 2000), Mombasa, Kenya.
46. J.K. Wabacha, C.M. Mulei and J.M. Maribei. Demographics of Smallholder Pig Farms In Kikuyu Division, Kiambu District. Kenya Veterinary Association Annual Scientific Conference, 26th - 28th April, 2000), Mombasa, Kenya.
47. J.K. Wabacha, C.M. Mulei, J.M. Maribei and P.M.F. Mbithi. An outbreak of Atrophic rhinitis in a medium scale pig farm in Kiambu, Kenya Veterinary Association Annual Scientific Conference, 26th - 28th April, 2000), Mombasa, Kenya.
48. J.K. Wabacha, J.M. Maribei, C.M. Mulei, M.N. Kyule and E.H. Weda. Evaluation of Sarcoptic mange status in pigs in smallholder farms in Kikuyu Division, Kiambu District, Kenya. Faculty of Veterinary Medicine Biennial Scientific Conference 30th -1st September 2000.
49. Wabacha J.K., J.M. Maribei, C.M. Mulei, M.N. Kyule, K.H. Zessin and W.Oluoch-Kosura. Sow reproductive performance and the associated herd-level factors in smallholder herds in a peri-urban area in Kenya. Biennial scientific Conference of

the Faculty of Veterinary Medicine, University of Nairobi, Kenya, 7th-9th August 2002, Nairobi, Kenya

50. Wabacha J.K., J.M. Maribei, C.M. Mulei, M.N. Kyule, K.H. Zessin and W.Oluoch-Kosura. Piglet morbidity and mortality in smallholder herds in a peri-urban area in Kenya. Biennial scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, Kenya, 7th-9th August 2002, Nairobi, Kenya
51. J.K. Wabacha, J.M. Maribei, C.M. Mulei, M.N. Kyule, K.H. Zessin, W. Oluoch-Kosura. Evaluation of relative cost-effectiveness of alternative health interventions against sarcoptic mange and gastro-intestinal helminthosis on smallholder pig herds in Kikuyu division, central Kenya. Faculty of Veterinary Medicine Biennial Scientific Conference, Nairobi, 3rd – 5th November 2004.
52. E.G.M. Mogoia, J.K. Wabacha, P.M.F. Mbithi, S.G. Kiama. An overview of animal welfare issues in Kenya. Faculty of Veterinary Medicine Biennial Scientific Conference, Nairobi, 3rd – 5th November 2004.
53. M.J. Njenga, J.K. Wabacha, T.O. Abuom, S.M. Ndurumo, P.N. Gitonga, G. Kirui. Ambulatory clinical exposure of final year veterinary students 2003/2004. Faculty of Veterinary Medicine Biennial Scientific Conference, Nairobi, 3rd – 5th November 2004.
54. A.G. Thaiya, S.M. Ndurumo, J.K. Wabacha. Suspected Nitrate/Nitrite poisoning in stall-fed dairy Cattle resulting from consumption of *Amaranthus* Plants. Faculty of Veterinary Medicine Biennial Scientific Conference, Nairobi, 3rd – 5th November 2004.
55. J.M.A. Kitaa, C. Mulei, J.D. Mande, J.K. Wabacha. Clinical and Laboratory diagnosis of Ehrlichial infections in dogs: A Review. Faculty of Veterinary Medicine Biennial Scientific Conference, Nairobi, 3rd – 5th November 2004.
56. T.O. Abuom, J.K. Wabacha, D.N. Karanja. Disseminated intravascular coagulopathy secondary to Klebsiella mastitis in a Bovine. Faculty of Veterinary Medicine Biennial Scientific Conference, Nairobi, 3rd – 5th November 2004.
57. M. J. Njenga, J. K. Wabacha, D. Lamba P. K. Gathuru. An analysis of community health risk to zoonoses in a slum setting in Nairobi. Presented in International workshop on improving the well-being of resource poor communities-the contribution of small livestock. Everglades Hotel, Howick, South Africa 12-15 September 2005.
58. M.J. Njenga, J.K. Wabacha, D.Lamba and P.K. Gathuru. An assessment of the knowledge base about selected zoonoses among residents of Kibera slums of

Nairobi. Kenya Veterinary Association Annual Scientific Conference, 26th - 28th April, 2006, Mombasa, Kenya.

59. J.K. Wabacha, C.M.M. Mulei, N.P. Gitonga, M.J. Njenga, A.G. Thaiyah and J. Nduhiu. An outbreak of unusual form of acute ovine dermatophilosis in a mixed farming enterprise in Kenya. Faculty of Veterinary Medicine Biennial Scientific Conference, Nairobi, 6th – 9th September 2006.

I 6 Technical reports

60. M. J. Njenga, **J. K. Wabacha**, D. Lamba and P. K. Gathuru (2005). An analysis of community health risks in relation to zoonoses from livestock keeping in a slum setting in Nairobi. (A report submitted to DFID-LPP)
61. **J.K. Wabacha**, Njenga Munene, et al., (2006). The Prevalence of human brucellosis among patients attending health facilities in Nairobi with special emphasis in Kibera. (A report submitted to DFID-LPP).
62. A.G. Thaiyah and **J.K. Wabacha** (2004). The therapeutic efficacy of Buvonal® for the treatment of Naturally acquired East Coast Fever (ECF) (Report on file , Parnell Laboratories (Aust) Pty Ltd, www.parnell.biz).
63. A.G. Thaiyah and **J.K. Wabacha** (2005). The therapeutic efficacy of Parvonl® for the treatment of Naturally acquired East Coast Fever (ECF) (Report on file, Parnell Laboratories (Aust) Pty Ltd, www.parnell.biz).
64. The Somali Livestock Certification Project (SOLICEP) Final Report, February 2012.

I 7 Community extension publications/interviews

65. **J.K. Wabacha** (1997). East Coast Fever. Agricultural review Vol. 4 No. 2.
66. Munyua .S.J.M, Mbai ,K, Thaiya , A.G., **Wabacha, J.K.** and Tsuma V.T.(1999). Reproductive health care in Dairy animals. Central Artificial Insemination Station Magazine, October 1999 pp 25-26.
67. Munene M.J. and **Wabacha J.K.** (2005). Creation of relevant information and knowledge to abate health risks. NEFSALF Bulletin, March 2005 pp 2.
68. Granted an interview to the standard newspaper for a special Report entitled “*Animals and the dangers they pose to humans*” that appeared in The standard, Monday, August 22, 2005.

69. Granted an interview to WrenMedia Limited (UK) for their programme “Communicating Science for sustainable development” entitled “Brucellosis - an Information and Policy Priority” (April 2005).

J. PROFESSIONAL DEVELOPMENT AND CONTINUING EDUCATION

1. A training course on recent advances in the diagnosis of Mycobacterial and Mycoplasmal infections in man and animals, Sokoine University of Agriculture, Tanzania, 9th - 27th March, 1998.
2. Animal Health Research Priority Setting Workshops at KARI Headquarters, 29th - 30th October and 9th -11th December 1996. Personal inputs were mainly on smallholder pig production systems.
3. Kenya Agricultural Biotechnology Platform (KABP) Workshop on the use of interactive bottom - up approach in animal health problem diagnosis, priority setting, project formulation and implementation at Agricultural Information Centre, Kabete, 29th - 30th October and 9th -11th December 1994
4. Stakeholder workshop on the role of Agro-veterinary shops (Dukas) in the delivery of animal health services and information. Hotel Kunste, Nakuru, 22nd –23rd may 2002.
5. NEPAD-CAADP National medium Term Investment Plan (NMTIP) for the agricultural Sector workshop, 8th June 2004, KARI Headquarters, Nairobi, Kenya.
6. A course on “The design of vaccination programmes” 18-22 March 2002 at the International Livestock Research Institute.
7. DFID- Animal Health Programme: Zoonoses workshop, Panafric Hotel, 6th-8th February 2005
8. Stakeholders workshop on the review of Bachelor of Veterinary Medicine Curriculum on 12th and 13th August 2005 at Lenana House, Nairobi
9. DFID- Animal Health Programme: Understanding and reducing the burden of cysticercosis in Kenya: awareness and action planning meeting, ILRI, Nairobi, Kenya, 11-12 January, 2006.
10. An in-house training programme on financial management and human resource management for Chairmen of Department of the University of Nairobi, KCCT, Mbagathi, Nairobi, 2nd- 4th February 2006.
11. A workshop on the training of Chief Internal examiners, KCCT, Mbagathi, Nairobi, 13th -15th July 2006.

12. A six day workshop on proposal and scientific writing from 19th -25th November, 2006, held at KCB Management Centre, Karen, Nairobi that was sponsored by RAIN-ASARECA and University of Nairobi.
13. Sensitization seminar on ISO at the University of Nairobi, 2007.
14. Seminars on Result based management and Rapid result initiatives at Utalii College Nairobi and at the University of Nairobi, 2007.
15. A seminar on Performance contracting at the University of Nairobi, 2007.
16. 1st International Deans course (Part I) for Deans of Faculties and Heads of Departments from 5th to 16th May 2007 in Germany; on strategic and operative management, financial management, quality management, soft skills, leadership, e-learning, public relations and change management.
17. 1st International Deans course (Part II) for Deans of Faculties and Heads of Departments from 2nd to 4th October 2007 in JKUAT; on strategic and operative management, financial management, quality management, soft skills, leadership, e-learning, public relations and change management.
18. 1st International Deans course (Part III) for Deans of Faculties and Heads of Departments from 11th to 16th February 2008 at Addis Ababa University; on strategic and operative management, financial management, quality management, soft skills, leadership, e-learning, public relations and change management.
19. Avian influenza School 24th -27th July 2007, held at University of Nairobi, Faculty of Veterinary Medicine, Department of Animal Physiology and Anatomy, sponsored and delivered by University of California Davis and University of Nairobi.
20. Information session on Endulink programme on 30th August 2007 at Kenya Institute of Education.
21. Program on Standard Methods and Procedures for Animal Disease control, Norman Borlaug Institute for International Agriculture, Texas A&M AgriLife, United States of America, April 2013.

K. COMMUNITY SERVICE

- A member of a civic organization that has interest in livestock health and production, Nairobi and Environs Food Security, Agriculture and Livestock forum (NEFSALF).

- Member of Board of Governor, Mukumu Secondary School in Murang'a District.

L. SCHOLARSHIPS

April 2001: Awarded a short-term research fellowship by Deutscher Akademischer Austauschdienst (DAAD) at Free University Berlin.

October 1996: Awarded a research grant by (DAAD) to undertake a Doctorate of Philosophy degree project at the University of Nairobi.

September 1989: Granted a scholarship by the Belgium Administration for Development Cooperation (BADC) to pursue a Master of Science at the Free University of Brussels, Belgium.

M. EXCELLENCE ACADEMIC AWARD

September 1988: Awarded Gandhi Smarak Nidhi Fund Merit Award as the best University of Nairobi Final Year student in the Faculty of Veterinary Medicine.

N PROFESSIONAL AND SOCIAL AFFILIATIONS

Registered Veterinary Surgeon by the Kenya Veterinary Board.

Member of the Kenya Veterinary Association.

Member of the Department of Clinical Studies Staff Welfare Association

Member of the University of Nairobi Alumni Association

O. OTHER PROFESSIONAL CONTRIBUTIONS

1. Ad hoc reviewer, Kenya veterinary association Journal, The Kenya Veterinarian.
2. Ad hoc reviewer for scientific proposals submitted to the International Foundation for Science (IFS).
3. Member of the Editorial Board of the Bulletin of Animal Health and Production in Africa

Q. REFEREES

- 1) Prof Peter M. F. Mbithi
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