

Prof. KANYARI PAUL W. NJUKI

## **CURRICULUM VITAE**

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# CURRICULUM VITAE

## 2. BACKGROUND

- 1.1 NAME: PAUL KANYARI NJUKI
- 1.2 DATE OF BIRTH: DEC. 12<sup>TH</sup> 1954
- 1.3 PLACE OF BIRTH Kangema Division, Central  
Province, Kenya.
- 1.4 MARITAL STATUS Married with two children and a professing  
Christian.

## 2. SCHOOLS ATTENDED

1962- 1968 Muguru Primary School, Kangema Division  
1969- 1972 Kangema Secondary School, Kangema Division  
1973- 1974 Alliance High School, Kikuyu Division, Kenya

## 3. UNIVERSITY EDUCATION

### 3.1 UNDER-GRADUATE EDUCATION

1975- 1979 University of Nairobi, Kenya

### 3.2 POST-GRADUATE EDUCATION

1980 -1982 University of Nairobi, Kenya  
1983- 1987 University of Queensland, Australia.

#### **4. DEGREES ATTAINED**

- 4.1 Ph.D Doctor of Philosophy in Parasitology  
University of Queensland, Australia.  
(1983- 1987)
- 4.2 M.Sc. Master of Science in Veterinary Pathology  
Microbiology and Parasitology, University of  
Nairobi (1980- 1982)
- 4.3 B. V. M. Bachelor of Veterinary Medicine  
(1975- 1979)

#### **5. ACADEMIC POSITIONS HELD IN EMPLOYMENT**

- 5.1 2006 [May] Professor of Veterinary Parasitology
- 5.2 1997 ó 2006 [May] Associate Professor in Veterinary  
Parasitology
- 5.3 1990 - 1997 Senior Lecturer, Parasitology, University of  
Nairobi.
- 5.4 1982-1990 Lecturer in Parasitology, University of  
Nairobi
- 5.5 1979-1982 Assistant Lecturer in Parasitology,  
University of Nairobi.

#### **6 ADMINISTRATIVE RESPONSIBILITIES and OTHER POSITIONS**

**HELD IN THE UNIVERSITY OF NAIROBI AND ELSE WHERE,  
KENYA**

- 6.1 July 16<sup>th</sup> 2012 to Date**      **Acting Principal, Embu University College**
- 6.2 2009 to Date**      Member of the National Sanitary Phytosanitary Committee University of Nairobi Representative
- 6.3 August 2004 to Sept 2008**      **Dean, Faculty of Veterinary Medicine**
- 6.4 2004 to 2008**      **Acted Pricipal, CAVS[at various dates]**
- 6.5 2004 to 2008**      **Served in various sub-committees of the Senate including:**
- University of Nairobi Research policy
  - Establishment of the Office on the DVC, Research, Development and Extension
- 6.6 Sep. 2003 to March 2005**      **College Representative, Board of Post- Graduate Studies [BPS], Kabete CAVS**
- 6.7 Feb. 2000 to Sept 2004**      Chairman, Faculty of Veterinary Medicine Post-Graduate Studies Committee
- 6.8 Feb. 1997 to 2000**      Faculty Representative to the Nairobi Cluster.
- 6.9 Jan. 1995-Nov.1995**      Acting Section Head - Parasitology  
**Dec. 1996 - Apr. 1997**      Acting Section Head - Parasitology
- 6.10 1993 to 2004**      Member of the College Advisory Committee on the DANIDA Funded Ruminant Gastrointestinal Helminth Research Project.
- 6.11 1992 -1995**      Departmental Representative to the Faculty of Veterinary Medicine Post-Graduate Studies Committee.

## **7. CURRENT and PAST ACADEMIC ACTIVITIES**

**COURSE LECTURER IN:** Bachelor of Veterinary Medicine,  
Bachelor of Wild Life and Bachelor of  
Biomedical Technology :

- 7.1.1 Veterinary Parasitology to under-graduate students
- 7.1.2 Advanced Parasitology and Clinical Parasitology to Post-Graduate students
- 7.1.3 Principles of Scientific Communication to under-graduate and Post - Graduate students.
- 7.1.4 Special and Diagnostic Pathology to under-graduates
- 7.1.5 Co-ordination of Post-Graduate Courses & Time-Tables in the Parasitology Division within the Department.

### **7.2 AREAS CONTRIBUTED TO IN RESEARCH**

- 7.2.1 Goat Trypanosomosis - Epidemiology, Breed Differences and Economics
- 7.2.2 Goat Coccidiosis in Australia- Epidemiology, Breed Differences, Ultrastructural Species Differences, Host Cellular and Humoral Immune Responses
- 7.2.3 Sheep and Goat Helminthiasis in different Agro-Ecological Regions of Kenya
- 7.2.4 Coccidiosis in small ruminants in Kenya
- 7.2.5 Bovine Toxoascariasis in Kajiado District of Kenya, use of laboratory animal models and Control.
- 7.2.6 Participated in the design and execution of a successful experiment testing the effectiveness of Bayticol® (Flumethrin) for protection of cattle against Tse-tse flies at the Coast Province of Kenya.
- 7.2.7 Tested a pyrethroid ( Dominex®) for its effectiveness in protection of cattle against Tse-tse transmitted trypanosomiasis - Research work completed, published and the report accepted by the Director of Veterinary Services, Kenya

- 7.2.8 Cryptosporidiosis: Transmission studies with particular reference to the transplacental route in relation to HIV/AIDS in humans.
- 7.2.9 Causes of Ostrich chick mortality in Alabama and Selected localities in Kenya
- 7.2.10 Helminth control among cattle and sheep in semi-arid areas of Kenya
- 7.2.11 Risk Analysis/Assessment, Management and Communication
- 7.2.12 Impact of Urban and Peri-Urban Livestock Farming in the Lake Victoria Basin on Public Health and Incomes among the communities.
- 7.2.13 Developing Reforms for Promoting ASAL Communities in Drought Mitigation and Maximization of Livestock Resources for Improved Livelihoods Through Strategic Linkages.

## **8. POST-GRADUATE SUPERVISION**

- 8.1 The following are titles of Master of Science Thesis submitted and degree awarded after my supervision:
  - 8.1.1 Dr. S.M. Githigia: "Caprine Coccidiosis: Epidemiological studies in selected areas of Kenya and aspects of Pathology"
  - 8.1.2 Dr. J.N. Chege: "Investigation of the involvement of the domestic cat in the cyclic transmission of Caprine Besnoitia".
  - 8.1.3 Dr. J.G. Waweru: "Ovine fascioliasis: Comparison of breed differences between Red Maasai and Dorper under experimental conditions".
  - 8.1.4 Dr.G.O. Matete " Lymphocyte infectivity and characterization of *Theileria parva* isolated from paddocks in Kiambu District.ö

- 8.1.5 Dr. J.A. Omega " Immuno-diagnosis of ovine fascioliasis".
- 8.1.6 Dr. J.G. Kagira: "Nematode parasites of Pigs in selected localities in Kenya."
- 8.1.7 Dr Lavoisier Akoolo(2007): "Identification of *Theileria parva* Vaccine Candidate Antigens Recognised By Cytotoxic Lymphocytes From Zebu Cattle"
- 8.1.8 Dr Esther Wafula (2007). Cross-Sectional Survey of Mange and Contagious Caprine Pleuropneumonia(CCPP) in Goats, Turkana District, North-Western Kenya
- 8.1.9 Dr Chemis JV(2009). "Studies on the Possible Causes of Losses in Ostrich Production in Selected Ostrich farms in Kenya".
8. 1.10 Dr Nyamweya JO( 2009). Fasciolosis in the Northern Range Lands of Kenya[On going]
- 8.1.11 Omemo Peter(2010). Use of GIS in the study of dog bites distribution in Kisumu Municipality [A student of Maseno University][Thesis submitted and defended]

## **8.2 Doctoral Thesis[PhD]**

- 8.2.1 Dr. J.N. Chege [2003]  
Title of the Thesis: " Epidemiology and Control of Gastrointestinal Helminth Infections in Sheep in a Semi-arid Area of Kajiado District of Kenya".
- 8.2.2 Dr J. Kagira[2009] " A Study of Factors Influencing Pig Health and Productivity in Small Holder Pig Farms in Trypanosomosis Endemic Area of Western Kenya.
- 8.2.3 Dr P.M. Ithodeka[2010]. Global Sanitary [Animal Health]



## Standards and Their Effect On the Kenya Livestock and Meat Products Exports.

8.2.4 Two (2) more PhD postgraduate students are currently undertaking their project work under my supervision jointly with other colleagues.

### 9. **PhD and MSc THESES TITLES EXAMINED**

- 9.1 Olaho-Mukani, W. [ 1990] Ph.D.  
Development and characterisation of monoclonal antibodies (MCABs) to *Trypanosoma (Trypanozoon) brucei evansi* and their application as immunodiagnostic agents"
- 9.2 Githigia, S.M.[1991]. M.Sc.  
"Caprine Coccidiosis: Epidemiological studies in selected areas of Kenya and aspects of pathologyö
- 9.3 Kasigazi, S.. [1994]. M.Sc.  
" Pathological studies on natural caprine besnoitiosis and experimental infection of sheep, rabbits and goats".
- 9.4 Ng'ang'a, J.C. [1993]. MSc  
öInvestigation of the involvement of the domestic cat in the cyclic transmission of Caprine Besnoitia.ö
- 9.5 Waithanji, E.M. [1993] M.Sc.  
"Use of antigen trapping ELISA kit for field diagnosis of *Trypanosoma evansi* infections in dromedary camels (*Camelus dromedarius*).
- 9.6 Robinson, R.M. [1993] M.Sc.  
"Clinical manifestation of experimental *Trypanosoma evansi* infection in the dromedary camel and the effect of treatment on haematological, biochemical and serological values"
- 9.7 Njoroge, E. [1994]. M.Sc.  
"Studies on Experimental water intoxication in calves".

- 9.8 Mukhwana, E.J. [1994]. M.Sc.  
 "A comparison of the efficacy of three anthelmintics against mixed natural gastro-intestinal nematode infection in camels".
- 9.9 Waweru, J.G. [1995]. MSc  
 "Experimental Ovine fascioliasis. A comparative study on clinicopathological features in two breeds of sheep."
- 9.10 Mutasa J.A. [1995]. M.Sc.  
 "A survey of the prevalence of *Dirofilaria immitis* (Heart Worm) infection in dogs in Kenya."
- 9.11 Munene, J.N. [1996]. Ph.D.  
 "Caprine besnoitiosis: Prevalence of infection in Kenya goats and differentiation from the bovine species".
- 9.12 Nungari T. ( 1997) MSc.  
 "Pathways to glucose catabolism and fate of reducing equivalents in the *in vitro* propagated *Theileria parva* schizonts."
- 9.13 Sakwa D.P. [1997]. M.Sc.  
 "A study of sheep helminthiasis with special emphasis on *Haemonchus contortus* larvae in Muguga, Kenya."
- 9.14 Matete, G.O. ( 1997). MSc  
 "Lymphocyte infectivity and characterization of *Theileria parva* isolated from paddocks in Kiambu District."
- 9.15 Nyende, M.K. [1998]. MSc.  
 "Development of latex slide agglutination test and its use for serodiagnosis of Heartwater [*Cowdria ruminantium*] infection in small ruminants."
- 9.16 Odoi Agricola [1998]. MSc.  
 "Effects of gastrointestinal nematodosis on the production of small ruminants in small holder mixed farms in two Agro-

ecological zones in Kiambu District, Kenya.ö

- 9.16 Mbaria, J.M.[1999] PhD.  
öStudies of pharmacokinetics, anthelmintic efficacy and acute toxicity of pyrethrins in sheep and dogs and pyrethroid analysis in air.ö
- 9.17 Waruiru, R.M. [1998] PhD.  
öEpidemiology and control of gastro-intestinal nematode infections of dairy cattle in Kiambu District, Kenya.ö
- 9.18 Lang'at C.K. [1999]. MSc.  
öThe prevalence of hydatidosis in livestock and the potential role played by various livestock intermediate hosts in the transmission of hydatidosis
- 9.19 Deogracious Olila [2000]. PhD.  
Pharmacological and epidemiological studies on the drug-sensitivity of trypanosomes isolated from peri-urban dairy system in Uganda.
- 9.20 Tito Nyambenyi (2001). MSc  
An experimental establishment of infection of *Haemonchus contortus* in two breeds of sheep in Kenya
- 9.21 Kagira J. [ 2001]. MSc.  
The Prevalence of Gastro-intestinal Parasitism, Control Practices and occurrence of Anthelmintic Resistance in Commercial Pig Farms in Thika District, Kenya.
- 9.22 Biryomumaisho Savino [2001] MSc.  
Comparative Clinicopathology of *Trypanosoma congolense* and *Trypanosoma brucei* infection in Goats.
- 9.23 Ahmadu, B. [2001]. PhD.  
Management Practices, Morphometric Body Measurements and Diseases of Local Zambian Goats.

- 9.24 Makanya, A.N. [2002]. PhD.  
Post-natal Mammalian Lung Development: A Study of the Morphological Events in a Marsupial ( Quokka, *Setonix brachyurus*) Under Natural Circumstances and in a Eutherian Rat ( *Rattus norvegicus*) in Glucocorticoid Treatment
- 9.25 Dr. Nsamba Peninah [2002]. MSc.  
A longitudinal Study of Gut Parasites in Layer Chicken Kept Under Deep Litter System in Kampala Urban and Peri-Urban.
- 9.26 Dr. Germaine Tami Guemgne Simo [2003]. PhD  
Identification of *Plasmodium falciparum* Transcripts Differentially Expressed Or Developmentally Regulated During The Sexual Cell Cycle
- 9.27 Dr. C.J. Ng'ang'a [2003]. PhD  
Epidemiology and Control of Gastrointestinal Helminth Infections in Sheep in a Semi-Arid Area of Kajiado District of Kenya
- 9.28 Dr. Thokozani Hove [2004] PhD  
*Toxoplasma gondii* Infection in Selected Domestic and Game Animal Species in Zimbabwe.
- 9.29 Dr. Chrisostom Ayebazibwe[2005].  
The infection patterns in cattle kept by Agro-pastrolists in Kikatsi sub-county, Mbarara Districtö.
- 9.30 Dr. Felix Ondongo[2006].  
The Prevalence of Cysticercosis in Pigs and the Factors Influencing its Transmission in Mbale District-Uganda.
- 9.31 Frank Lusasi Basiye [2007] MSc, Thesis  
Development of Standard Protocols for sampling, Preparation and storage of Bio-clinical Materials for *Trypanosoma* and *Leishmania* Research.

- 9.32 Robin CA Omedo [2009] MSc  
Hepato-Intestinal Pathology of *Schistosoma mansoni* in Olive Baboons( *Papio cyanocephalus anubis*) Vaccinated with *S. mansoni* Anti-Oxidant Enzymes and Filamin Encoding Genes.
- 9.33 Patrick Kiarie Nding'uri[2009] MSc  
Passive Immunity to Schistosomiasis in Mice Transfused with Hyperimmune Baboon Serum
- 9.34 Mohammend Hassan Ali[2009]. MSc  
Participatory Epidemiology and Cryposporidiosis in Malindi District,Coast Province,Kenya.
- 9.35 Leonard Karongo Munga[2010]. PhD  
Field Studies on the Susceptibility and Influence of Environmental Factors on Trypanosomosis in the Boran x N'dama Cattle in Kenya.
- 9.36 Okwong' Oketch Reymick[2012]. MSc  
Anti-variant surface glycoprotein Antibodies for the immune staining of heteregous strains of Trypanosoma brucei *in situ* and *in vitro*.
- 9.37 Osilo (KU) -----

## 10. EXTERNAL EXAMINER TO OTHER UNIVERSITIES

- 10.1 Makerere University, Uganda -Veterinary Under-graduate Parasitology Examination ó1995- 1998, 2004
- 10.2 Sokoine University of Agriculture - Under- graduate Veterinary Parasitology Course - 1998 - 2000.
- 10.3 Egerton University, Njoro - Under-graduate and Post-Graduate Courses in Animal Health 1998 to 2009.

10.4 University of Zimbabwe:

- Veterinary Under-graduate Courses in the Para-Clinical Department;
- Consultancy Services Offered for evaluation of Senior Staff for promotion and
- External Examiner to a PhD Thesis

10.5 University of Zambia - Consultancy as External Examiner to a PhD Thesis

10.6 Botswana College of Agriculture- Consultancy Services Offered for evaluation of Senior Staff for promotion

10.7 University of Swaziland- External Examiner for Undergraduate and Post-graduate Courses

## **11. CONSULTANCY SERVICES RENDERED**

**11.1 A Member of the Editorial Board for the following Journals :**

- **Bulletin of Animal Health and Production in Africa**
- **Scientia Parasitologica**

**11.2 FMC International -** Evaluation of Alphamethrin ( Dominex<sup>®</sup> ) for control of Cattle Trypanosomosis

**11.3 Unga Group -** Use of Amitraz ( Almatix<sup>®</sup> ) for the Control of Ticks

**11.4 Hoechst -** Evaluation of Amitraz ( TackTick<sup>®</sup> ) in the control of sheep mange

**11.5 Kenya Veterinary Journal -** Biennial Faculty Conferences

**11.6 Agricultural Research Foundation ( ARF)**

Review of Research Proposals

**11.7 Kenya Agricultural Productivity Project[KAPP and KAPAP]]**

- Development and Prioritization of Research Thematic Areas
- Review of Research Proposals

- Monitoring and Evaluating funded projects across the Kenyan landscape

### **11.8 Commission for Higher Education[CHE]**

- Evaluation of Research Proposals
- Development of Tools for Monitoring and Evaluation of Funded Research.
- Monitoring and Evaluating funded projects in various parts of Kenya.

**11.7**

## **12. SCHOLARSHIPS HELD.**

- 12.1 University of Nairobi Scholarship - MSc. Course Work and Research. Thesis submitted entitled " Trypanosomiasis: A Study on the Development and Control in Three Breeds of Goats."
- 12.2 Australian Development Assistance Bureau (ADAB) Scholarship. Ph.D. Research Thesis submitted entitled " Studies on Caprine Coccidiosis".

## **13. FELLOWSHIPS HELD**

- 13.1 National Council for Science and Technology - Kenya - For Studies on Caprine Trypanosomiasis
- 13.2 Australian Goat Breeders Society - Australia - Studies in Caprine Coccidiosis
- 13.3 Fulbright Senior Scholar Award - United States Information Agency 1995/96. Funded Sabbatical Leave at Tuskegee University, Alabama, U. S. A.
- 13.4 Cochran Fellowship Programme- United States Department of Agriculture[USDA]. University of Nebraska, Nebraska, USA October 2008

**14 FUNDED GRANTS:**

- 14.1 Cryptosporidiosis: Transmission studies in immunocompromised murine hosts -Council for International Education of Scholars [CIES ]- USA.
- 14.2 Helminth Research Project in Kenya - Danish Development Agency [ DANIDA] ó
- 14.3 Causes of ostrich chick mortality in Kenya and Alabama, USA  
ó United States Department of Agriculture [USDA]
- 14.4 Risk Assessment and Analysis - A collaborative Project between Tuskegee University, USA and Faculty of Veterinary Medicine, University of Nairobi. 2002 to 2004
- 14.5 Urban Livestock Farming and the Risks to Human Health- Lake Victoria Research Initiative[VicRes]- Nov 2006 worth USD 150,000. Web Site: Visres.net
- 14.6 Developing Reforms for promoting ASAL communities in drought mitigation and maximization of livestock resources for improved livelihoods through strategic linkages. Kenya Agricultural Productivity and Agribusiness Project[KAPAP]: 2011 worth KES 24 Million

**15. MEMBERSHIP [past & present] TO PROFESSIONAL BODIES**

- 15.1 Kenya Veterinary Board- Registration No546
- 15.2 Kenya Veterinary Association
- 15.3 Australian Society for Parasitologists
- 15.4 Royal Society for Tropical Medicine and Hygiene
- 15.5 New York Academy of Sciences



- 15.6 American Society for Parasitologists
- 15.7 World Association for Advancement of Veterinary Parasitology [WAAVP]
- 15.8 Association of Institutions of Tropical Veterinary Medicine [AITVM]
- 15.9 Kenya National Academy of Sciences- Since October 2004

**16. NON-PROFESSIONAL CLUB MEMBERSHIP**

- 16.1 Public Service Club - Kenya
- 16.2 The Optimist Club, Tuskegee Chapter, Alabama, U.S.A.
- 16.3 WHO'S WHO IN THE WORLD 1997 - 2003 Editions -  
BIOGRAPHY INCLUDED
- 16.4 WHO'S WHO IN SCIENCE AND ENGINEERING  
1999-2003 Editions  
BIOGRAPHY INCLUDED
- 16.5 INTERNATIONAL SCIENTIST OF THE YEAR 2004  
[Award].  
A Publication of International Biographical Centre,  
Cambridge, England

**17 COMMUNITY SERVICES**

- 17.1 Chief Guest - Various Fund - Raising Functions, for example to help pay outstanding hospital bills, educational needs for financially handicapped students, church projects etc.

- 17.2 Organising Chairman - For Electrification and Water reticulation committees in my local area of residence - Kajiado, KENYA. 1992
- 17.3 KAMEME FM RADIO - Featured in the programme: Great Kenyan - 2002
- 17.4 TREASURER, PTA Karen "C" Primary School- 199-2002
- 17.5 CHAIRMAN, PTA Karen 'C' Primary School ó 2002-2004
- 17.6 CHAIRMAN, BoG Muguru Secondary School. 2009 to date

## **18. LIST OF PUBLICATIONS**

- 18.1 P. W. N. KANYARI (1982). " Goat Trypanosomiasis: Effect of chemotherapy using isometamedium chloride on production in three goat breeds". Kenya Veterinarian **6** (2): 9.
- 18.2 P. W. N. KANYARI, W. K. MUNYUA, A. J. WILSON, E. W. ALLONBY (1982) "Trypanotolerance and economics among East African goats compared to their crosses with two exotic Breeds". In Karbe, E. and Freitas, E. K. (Eds); pp. 93 - 99.
- 18.3 P. W. N. KANYARI, E. W. ALLONBY, A. J. WILSON, W. K.MUNYUA (1983). "Some economic effects of trypanosomiasis in goats." Tropical Animal Health and Production. **15**: 153- 159.
- 18.4 P. W. N. KANYARI, W. K. MUNYUA, A. J. WILSON (1986). "Goat Trypanosomiasis:Trypanotolerance and Epidemiology among goat breeds in Kenya." Bulletin of Animal Health and Production in Africa. **34**: 93 - 97.

- 18.5 P. W. N. KANYARI (1988). " Coccidiosis in goats and aspects of epidemiology." *Australian Veterinary Journal*. **65** (8):257- 258.
- 18.6 P. W. N. KANYARI (1988). " Caprine coccidiosis". *The Australian Goat World* **39**:3.
- 18.7 P. W. N. KANYARI (1988). " Experimental nfections with coccidiosis and serum antibody quantitation in two breeds of goats". *Veterinary Parasitology*. **28**: 11 - 18.
- 18.8 P. W. N. KANYARI (1989). "Experimental coccidiosis in the goat *Capra hircus*: Observations on the ultrastructural aspects of *Eimeria apsheronica* macrogametogenesis". *Bulletin of Animal Health and Production*. Special Issue.
- 18.9 P. W. N. KANYARI (1990). "Development of *Eimeria apsheronica* in Goats *Capra hircus*: Endogenous development and host cellular response." *International Journal for Parasitology*. **20**: 625 - 630.
- 18.10 P. W. N. KANYARI (1990). " Prevalence of coccidia oocysts in sheep and goat faecal samples. A preliminary report based on laboratory records." *Bulletin of Animal Health and Production in Africa*, **38** (4): 473 - 474.
- 18.11 P. W. N. KANYARI (1991). " Effects of Corticosteroids on natural and experimental caprine coccidial infections". *Bulletin of Animal Health and Production in Africa*, **39** (3):351 - 353.
- 18.12 P. W. N. KANYARI, P. K. GATHUMBI and S. M. MBUGUA (1991). " Tyzzer's disease in Kenya rabbit . A case report". *Bulletin of Animal Health and Production in Africa*. **39**: 115 - 116.
- 18.13 S. M.GITHIGIA, MUNYUA W. K. and KANYARI P. W. N. (1992). Prevalence of *Eimeria* species in goats from parts of

Central Kenya. Bulletin of Animal Health and Production in Africa. **40**:283-285.

- 18.14 S. M.GITHIGIA, MUNYUA W. K. and **KANYARI P. W. N.** (1992). " Observations of the pathology of natural *Eimeria* infection in kids in Kenya". Bulletin of Animal Health and Production in Africa. **50**: 235 - 237.
- 18.15 P. W. N. **KANYARI** (1993). The relationship between coccidial and helminth infections in sheep and goats in Kenya". Veterinary Parasitology, **51**: 137 - 141 .
- 18.16 C. J. NGANGA, **P. W. N. KANYARI**, W. K. MUNYUA (1994). " Isolation of *Besnoitia wallacei* in Kenya". Veterinary Parasitology, 52: 203- 206.
- 18.17 P. W. N. **KANYARI** (1994). " Immunohistological demonstration of antigenicity of various endogenous stages of *Eimeria* in goats." Veterinary Research Communications, **18**: 295 - 299.
- 18.18 C. J. NGANGA, W. K. MUNYUA and **P. W. N. KANYARI** (1994). "Recovery and identification of *Besnoitia* and other coccidia from cat feces around Kabete in Kenya." Bulletin of Animal Health and Production in Africa, **42**:187 - 191.
- 18.19 P. W. N. **KANYARI**, W.K. MUNYUA & J. NGOTHO. (1995). "*Toxocara vitulorum* infections in cattle in Kajiado District, Kenya". Bulletin of Animal Health & Production in Africa, **3**:11-5
- 18.20 R.M. WARUIRU, P.G. MBUTHIA, S.M. NJIRO, T.A. NGATIA, E.H. WEDA, J.W. NGOTHO, **P.W. N. KANYARI** and W.K. MUNYUA (1995). Prevalence of gastro-intestinal parasites in wild and domestic ruminants in a game farm in Kenya. Bulletin of Animal Health and Production in Africa, **43**: 253- 259.

- 18.21 P.W. N. KANYARI. (1996). A comparison of the ultrastructural aspects of macrogametogenic stages of two *Eimeria* species of goats. *Discovery and Innovation*, **8**:181-188.
- 18.22 T.A. NGATIA, P.G. MBUTHIA, R.M. WARUIRU, S.M. NJIRO, **P.W. N. KANYARI**, W.K. MUNYUA and J. NGOTHO ( 1996). "Gross lesions encountered in slaughtered wild animals in a game ranching farm in Kenya.". *Bulletin of Animal Health and Production in Africa*, **43**: 253- 259.
- 18.23 **P. W. N. KANYARI**, W.K. MUNYUA, J. C. NG'ANG'A and J. NGOTHO ( 1996). Epidemiology of bovine *Toxocara vitulorum* in faecal and milk samples in Kenya. *Bulletin of Animal Health and Production in Africa*, **44**:255 - 256.
- 18.24 **P. W. N. KANYARI**, J. N. CHEGE, W.K. MUNYUA, & J. NGOTHO ( 1996). Experimental infection of rabbits (*Orytolagus cuniculus*) with *Toxocara vitulorum* from calves. *Bulletin of Animal Health and Production in Africa*, **44**: 257 - 258.
- 18.25 T.A. NGATIA, P.G. MBUTHIA, R.M. WARUIRU, S.M. NJIRO, **P.W. N. KANYARI**, W.K. MUNYUA, E. H. WEDA and J. NGOTHO (1997). "Parasites and microscopic lesions in the livers of slaughtered wild animals in Kenya". *Bulletin of Animal Health and Production in Africa*, **45**: 211 - 215
- 18.26 **P.W.N. KANYARI**, OYEJIDE,A.O., ALAK, J.I.B., OYEWOLE, A., ANDERSON, D.L., WILSON, S.T. (1998). "*Cryposporidium parvum*: Histopathological evidence of transplacental transmission in mice". *The Kenya Veterinarian* **23**:103-105
- 18.27 T.A. NGATIA, P.G. MBUTHIA, R.M. WARUIRU, S.M. NJIRO, **P.W. N. KANYARI**, W.K. MUNYUA, EH. WEDA and J. NGOTHO (1998). Sarcocystis in slaughtered wild animals in Kenya. *Bulletin of Animal Health and Production in Africa*, **46**: 1 - 4

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- 18.30 J.G. WAWERU, **P. W. N. KANYARI**, D.M. MWANGI, T.A NGATIA and P. NANSEN (1999). "Comparative parasitological and haematological changes in two breeds of sheep infected with *Fasciola gigantica*." Tropical Animal Health and Production, **31**: 363 - 372.
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- 18.62 **KANYARI, P.W.N., KAGIRA J.M., MHOMA, J.R.**  
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- 18.63 **KAGIRA, J.M., KANYARI, P.W.N., Maingi, N., Githigia SM., NG'ANG'A, JC, and KARUGA, JW(2009).** Characteristics of the smallholder free-range pig production systems in western Kenya. Tropical Animal Health and Production 42:865-873.
- 18.64 **KAGIRA, J.M. and KANYARI, P.W.N. [2010]**  
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 An appraisal of rabies occurrence and control in Kisumu Municipality, Kenya- Accepted in East African Medical Journal.
- 18.69. **KAGIRA, J.M. and KANYARI, P.W.N. [2010]** Occurrence of Risk Factors for Zoonosis in Kisumu City, Kenya. East African Journal of Public Health Vol 7: 1-4

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## **19 TITLES SUBMITTED FOR PUBLICATION**

**1 Paper submitted to ISRN Veterinary Science  
2 Papers in Preparation**

## **20. BOOKS AND MANUALS**

A MANUAL OF VETERINARY ENTOMOLOGY With Special Reference to the Tropics. UNIVERSITY OF NAIROBI PRESS.

Reviewed , re-submitted to the Editorial Board

21 **SEMINARS ATTENDED AND PAPERS PRESENTED.**

- 21.1 P. W. N. KANYARI (1982). " Goat Trypanosomiasis - The effects of isometamedium chloride on productive performance in three goat breeds". In Strategies and recent developments for the control of Trypanosomiasis and East Coast Fever. International Laboratories for Research on Animal Diseases. June 7<sup>th</sup> - 8<sup>th</sup>, 1982.
- 21.2 P.W.N.KANYARI (1985). "Studies in goat coccidiosis: Effects of corticosteroids on natural and experimental infections". Australian Society for Parasitologists, Annual Scientific Conference, Sydney, Australia. August 28<sup>th</sup> - 30<sup>th</sup>, 1985.
- 21.3 P.W.N. KANYARI (1986). " Ultrastructural studies of *Eimeria apsheronica* in goats". Sixth International Congress of Parasitology (ICOPA), University of Queensland, Brisbane, Australia. August 24<sup>th</sup> - 29<sup>th</sup> 1986.
- 21.4 P. W. N. KANYARI (1989). " Experimental coccidiosis in the goat *Capra hircus*: Observations on the ultrastructural aspects of *Eimeria apsheronica* macrogametogenesis". Kenya Veterinary Association, Proceedings of the Annual Scientific Conference, University of Nairobi, Faculty of Veterinary Medicine, Kenya, September 20<sup>th</sup> - 22<sup>nd</sup>, 1989.
- 21.5 P. W. N. KANYARI (1990). " Immunohistological demonstration of antigenecity of the various endogenous stages of in goats". Kenya Veterinary Association Annual Scientific Conference, University of Nairobi, Faculty of Veterinary Medicine, Kenya. September 19<sup>th</sup> - 21<sup>st</sup>, 1990.
- 21.6 P. W. N. KANYARI (1992). " *Toxocara vitulorum* infection in the bovine". Kenya Veterinary Association Annual Scientific Conference, University of Nairobi, Faculty of Veterinary Medicine, Kenya, April 22<sup>nd</sup> - 24<sup>th</sup>.

- 21.7 P. W. N. KANYARI, W. K. MUNYUA, and J. W. NGO THO (1993). *Toxocara vitulorum* infections in cattle in Kajiado District, Kenya". Second Seminar on the DANIDA Ruminant Gastrointestinal Helminth Research Project. University of Nairobi, Kabete College of Agriculture and Vet. Medicine, Kenya. January 18<sup>th</sup> - 22<sup>nd</sup>.
- 21.8 S. M. GITHIGIA, W. K. MUNYUA, **P.W. N. KANYARI** (1993). " Prevalence of coccidiosis in Kenya." Second Seminar on the DANIDA Ruminant Gastro-intestinal Helminth Research Project. University of Nairobi, Kabete College of Agriculture and Veterinary Medicine, Kenya. January 18<sup>th</sup>-22<sup>nd</sup>.
- 21.9 P. W. N. KANYARI, W. K. MUNYUA, J. N. CHEGE, J. W. NGO THO, and J.GICHANGA (1994). "*Toxocara vitulorum* - Kajiado District, Kenya: Prevalence of infection in calves, larval isolation from colostral milk and experimental infections in rabbits. Third Seminar on the DANIDA Ruminant Gastro-intestinal Ruminant Helminth Research Project, Samora Mitchel School of Veterinary Medicine, University of Zambia, Lusaka, Zambia. January 24<sup>th</sup> - 27<sup>th</sup>, 1994.
- 21.10 P. W. N. KANYARI., OYEJIDE, A.O., ALAK, J. J. B., OYEWOLE, A. ANDERSON, D. L and WILSON, S. T. (1996). Transplacental transmission of *Cryptosporidium parvum* following experimental infection of immunosuppressed mice. Tuskegee School of Veterinary Medicine, Department of Pathology and Parasitology, Tuskegee University, Tuskegee, Alabama, U.S.A. Nov. 15<sup>th</sup>.
- 21.11 A. OMEGA and **P.W.N. KANYARI** and others (1997). Suitability of the faecal egg sedimentation (FEST) as a quantitative diagnostic technique for fasciolosis in sheep. 6<sup>th</sup> Annual Seminar of the DANIDA Funded Ruminant Helminth Research Project. 27<sup>th</sup> - 31<sup>st</sup> January. ILRI, Kenya.

- 21.12 J.A. OMEGA , **P.W.N. KANYARI** and others (1997). Enzyme-Linked Immunosorbent Assay (ELISA) for the detection of circulating *Fasciola gigantica* antigens in sera of experimentally infected sheep. 6th Annual Seminar of the DANIDA Funded Ruminant Helminth Research Project. 27<sup>th</sup> -31<sup>st</sup> January. ILRI, Kenya.
- 21.13 P.W.N. KANYARI et. al. ( 1998). Occurrence of the Nematode Parasite *Toxocara* sp. In the African Buffalo ( *Syncerus caffer*): 7<sup>th</sup> Annual Seminar ENRECA Livestock Helminth Research Project. 27<sup>th</sup> April to 1<sup>st</sup> May, Arusha Tanzania.
- 21.14 P.W.N. KANYARI et. al. ( 1998). *Cryptosporidium parvum*: Histopathological Evidence of Transplacental Transmission in mice. Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, Kenya. August 5<sup>th</sup> - 7<sup>th</sup>.
- 21.15 P.W.N. KANYARI and WAWERU, J.G. ( 1999). Differences in Breed Responses to experimental *Fasciola gigantica* infection in sheep. 9<sup>th</sup> International Conference of Institutes of Tropical Veterinary Medicine. 14<sup>th</sup> to 18<sup>th</sup> September. Harare, Zimbabwe.
- 21.16 P.W.N. KANYARI et. al. ( 1999). The African Buffalo (*Syncerus caffer*): Gastro-intestinal Parasites with special reference to *Toxocara* sp. in Kenya. WAAVP Conference, August 15<sup>th</sup> - 19<sup>th</sup>. Copenhagen, Denmark.
- 21.17 P.W.N. KANYARI, Weda E. and Otieno, R. ( 2001). Use of medicated urea molasses blocks [ MUMB] to control gastro intestinal nematodosis in calves in a semi-arid environment. The 10<sup>th</sup> International Conference of the Association for Tropical Veterinary Medicine [ AITVM]. 20<sup>th</sup> - 23<sup>rd</sup> August, Copenhagen, Denmark.
- 21.18 P.W.N. KANYARI, et. al. ( 2001). Cryptosporidiosis:

Transplacental Transmission in Immunosuppressed mice and Possible Relation to AIDS in Humans. The 18<sup>th</sup> International Conference of the World Association for the Advancement of Veterinary Parasitology [WAAVP], 26<sup>th</sup> - 30<sup>th</sup> August , Stresa, Italy.

- 21.19 TYLOR, W.D., SRIVASTAVA, K.K., OYEJIDE, A., **KANYARI, P.W.N.**, NGATIA T.A., MBAABU- MATHIU, P. (2002). Evaluation of causes of chick mortality in small holder ostrich farms in Alabama. School of Veterinary Medicine Annual Symposium, Kellog's Conference Centre, Alabama USA March 6<sup>th</sup> to 9<sup>th</sup>.
- 21.20 J. M. KAGIRA, **P. W. N. KANYARI** ( 2002). An analysis of intensity of nematode infections in commercial pig farms in Thika District. Annual Scientific Meeting of the Kenya Veterinary Association Held at Kakamega; April 2002
- 21.21 J.M. KAGIRA, R.M. WARUIRU, W.K. MUNYUA, **P.W.N. KANYARI** (2002). Anthelmintic resistance survey in commercial pig herds in Thika District, Kenya. 8th Biennial Scientific Conference, KARI. 11<sup>th</sup> - 15<sup>th</sup> November, Nairobi.
- 21.22. **KANYARI P.W.N.** and **WANDAKA, F.K.** (2004) Risk Analysis for African Swine Fever Introduction into United States From Exported Pig Frankfurters. Pan African Conference on Risk Analysis and Modelling and Sanitary/Phytosanitary (SPS) Capacity Building in Sub-Saharan Africa. Addis Ababa Ethiopia - Tuskegee University Center for Computational Epidemiology, Bioinformatics and Risk Analysis in Cooperation with USDA/APHIS/PPD, USA. September 27<sup>th</sup> to October 1<sup>st</sup>, 2004
- 21.23 **KANYARI P.W.N.** and **WANDAKA, F.K.** [2004]. Faculty of Veterinary Medicine, Biennial Scientific Conference. Kabete College of Agriculture and Veterinary Sciences, University of Nairobi, Kenya. 5<sup>th</sup> to 8<sup>th</sup> November 2004



- 21.24 KANYARI, P.W.N. [2006]  
Challenges to Livestock Keeping in Peri-Urban arid and Semi-Arid Lands [ASALs] With Special Reference to Parasitic Diseases. Faculty of Veterinary Medicine, University of Camerino, Italy. 5<sup>th</sup> October.
- 21.25 KANYARI, P.W.N.[2006] òAnimal Welfare or Human Welfare-Maintaining a Balanceö. The Fifth International Colloquium on Working Equines The Future For Working Equinesö Proceedings of Colloquium organized by The Donkey Sanctuary and the Addis Ababa University, Ethiopia 30<sup>th</sup> October ó 2<sup>nd</sup> November 2006.
- 21.26 KANYARI, P.W.N. [2007] ò**Rift Valley Fever in Kenya**ö. Annual Veterinary Conference, College of Veterinary Medicine, 28<sup>th</sup> March 2007.  
Washington State University, USA.
- 21.27 KANYARI, P.W.N. [2007] ò**Pandemic Avian Influenza: Kenya Country Response**ö. Professional Agricultural Workers Conference, 2<sup>nd</sup> to 4<sup>th</sup> December 2007.  
Tuskegee School of Veterinary Medicine, Nursing and Allied Sciences, Alabama, USA
- 21.28 KANYARI, P.W.N., KAGIRA, J.M. and MHOMA, R.J. [2009]  
òPrevalence and intensity of endoparasites in small ruminants kept by farmers in Kisumu Municipality, Kenyaö. Vic Res Land Cluster Meeting, Zanzibar, 19<sup>th</sup> - 22<sup>nd</sup> March, 2009.
- 21.29 KANYARI, P.W.N. and KAGIRA, J.M. [2009].  
òClimate Change and Trans-boundary Animal Diseases, a Case for Concerted Research Engagement in the East African Regionö. A Workshop by RUFORUM, an IUCEA Initiative; Entebbe, Uganda 13<sup>th</sup> to 16<sup>th</sup> October 2009.
- 21.30 KANYARI, P.W.N. and KAGIRA, J.M. [2010]. ò The role of

veterinary and medical personnel in the control of zoonoses on the shores of Lake Victoria, Kenya.ö Association of Institutes of Tropical Veterinary Medicine[AITVM] Conference, Bangkok, Thailand. 23 -26<sup>th</sup> August, 2010.

21.31 KAGIRA, J.M. and **KANYARI, P.W.N.** [2011]. ö The role of veterinary and medical personnel in the control of zoonoses on the shores of Lake Victoria, Kenya.ö Kenya Veterinary Association Annual Scientific Conferene[KVA] Conference, Kisumu, Kenya. 27 -30<sup>th</sup> April, 2011.

21.32 **KANYARI, P.W.N.** and KAGIRA, J.M. [2011]. ö Rabies occurrence and control in Kisumu Municipality, Kenya, an appraisal of .ö Kenya Veterinary Association Annual Scientific Conferene[KVA] Conference, Kisumu, Kenya. 27 -30<sup>th</sup> April, 2011.

21.33 **KANYARI, P.W.N.** [2012]. Parasitic causes of liver and heart condemnation and their economic effects in the Lake Victoria Basin: A retrospective abattoir survey in Kisumu Municipality, Kenya. Royal Veterinary College, London, 25<sup>th</sup> April 2012.

## **22. FURTHER TRAINING - Continuing Education**

22.1 Certificate of Achievement in the Course " Introduction to Computers and Fundamentals of MS-DOS 6.2 and Harvard Graphics 3.0". Institute of Nuclear Science, University of Nairobi, January to February 1996.

22.2 Continuing Education Certificate; 37<sup>th</sup> Annual Veterinary Medical Symposium. Tuskegee University, College of Veterinary Medicine, Nursing and Allied Health. March 6<sup>th</sup> -9<sup>th</sup> 2002.

22.3 Tuskegee University- Centre for Computational Epidemiology, Bioinformatics and Risk Analysis- Risk Assessment SPS

Capacity Building in Sub-Sahara Africa, July 27<sup>th</sup>-Aug 9<sup>th</sup>, 2002

- 22.4 Risk Analysis and Modelling Workshop, Addis Ababa Ethiopia - Tuskegee University Center for Computational Epidemiology, Bioinformatics and Risk Analysis in Cooperation with USDA/APHIS/PPD, USA. July 29<sup>th</sup> to August 10<sup>th</sup> , 2002
- 22.5 Advanced Risk Analysis and Modelling Workshop, Addis Ababa Ethiopia - Tuskegee University Center for Computational Epidemiology, Bioinformatics and Risk Analysis in Cooperation with USDA/APHIS/PPD, USA. June 2<sup>nd</sup> to 14<sup>th</sup> , 2003
- 22.6 Train the Trainer Workshop/ Pan African Conference on Risk Analysis and Modeling and Sanitary/ Phytosanitary(SPS) Capacity Building in Sub-Saharan Africa. Addis Ababa Ethiopia - Tuskegee University Center for Computational Epidemiology, Bioinformatics and Risk Analysis in Cooperation with USDA/APHIS/PPD, USA. September 20<sup>th</sup> to 24<sup>th</sup> , 2004
- 22.7 Financial Management and Human Resource Management For Deans and Directors. Federation of Kenya Employers; 29<sup>th</sup> to 2<sup>nd</sup> October 2005. Kisumu April 2005.
- 22.8 Leadership Skills. The Steadyman Group, Management Training Division. Kenya Commercial Bank Training College, 10<sup>th</sup>-11<sup>th</sup> April 2006.
- 22.9 Hazard Analysis Critical Control Points[HACCP] Training. Kansas University, Kansas, USA. 1<sup>st</sup> ó 15<sup>th</sup> October, 2008
- 22.10 World Trade Organization[WTO] Regional Workshop on SanitaryPhytosanitary(SPS) Measures. Nairobi Hilton, 22<sup>nd</sup> - 25<sup>th</sup> November, 2011
- 22.11 World Trade Organization[WTO] Regional Workshop on SanitaryPhytosanitary(SPS) Measures and Tariff Barriers to Trade[TBT]. Nairobi Hilton, 11<sup>th</sup> - 13<sup>th</sup> April, 2012

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