

## CURRICULUM VITAE

**NAME:** ASSOCIATE PROFESSOR SAMUEL MAINA GITHIGIA  
**SEX:** MALE  
**DATE OF BIRTH:** 1960 OCTOBER 15  
**MARITAL STATUS:** MARRIED WITH THREE CHILDREN  
**NATIONALITY:** KENYAN (BY BIRTH)  
**CURRENT ADDRESS:** Department of Veterinary Pathology, Microbiology and Parasitology, University of Nairobi, Faculty of Veterinary Medicine, P.O. Box 29053, Kangemi, 00625, Nairobi.  
E-mail address [sgithigia@uonbi.ac.ke](mailto:sgithigia@uonbi.ac.ke)  
Mobile telephone 254-0722- 833639

### PROFESSIONAL TRAINING:

1983 – 1987: **Nairobi University**: BACHELOR OF VETERINARY MEDICINE (BVM)  
Awarded BVM Dec. 1987.

1987 – 1989: **Nairobi University**: MASTERS OF SCIENCE. Awarded degree Masters of Science (MSc) in Veterinary Pathology and Microbiology in September 1992.

1995 – 2000: **Nairobi University**: PhD: Awarded PhD degree in **Veterinary Parasitology** in November 2000.

### PROFESSIONAL QUALIFICATION: VETERINARY SURGEON

### ACADEMIC QUALIFICATIONS:

ADVANCED LEVEL: Nyeri high school: 1979 – 1981  
Kenya Advanced Certificate of Education (KACE)  
(3 Principal passes and one subsidiary pass)  
Major subjects taken: Chemistry, Biology and Geography

SECONDARY LEVEL: Githumu high school: 1975 – 1978  
East African Certificate of Education (EACE)  
PRIMARY LEVEL: Ndakaini primary school: 1968 – 1974  
Certificate of Primary Education (CPE).

**WORKING EXPERIENCE:**

1. JUNE 1987 – NOVEMBER 1987, Worked as a Veterinary Officer with the Kenya Government, Ministry of Livestock Development in Kiharu Division Muranga District.
2. SEPTEMBER 1989 – NOVEMBER 1991, Worked as an assistant lecturer in the Department of Veterinary Pathology and Microbiology. Teaching undergraduate students Veterinary Parasitology, Special Pathology and Diagnostic Pathology.
3. NOVEMBER 1991 – MAY 2002, Worked as a lecturer in the above Department. Extra duties included teaching postgraduate students taking courses in advanced Parasitology and Applied Veterinary Parasitology. Also active in research on the epidemiology, impact and control of economically important helminthes and parasitic zoonoses.
4. MAY 2002 – Promoted to position of Senior Lecturer in the Department of Veterinary Pathology, Microbiology and Parasitology. Extra duties include
  1. National Coordinator of the Cysticercosis Research and Working Group in East and Southern Africa (CWGESA)
  2. Supervision of undergraduate students doing their projects.
  3. Supervision of graduate students doing Master of Science and Ph.D projects.
  4. Departmental representative to the Faculty of Veterinary Medicine Projects and Attachment Committee.
  5. Coordinator BSc Wildlife Conservation and Tourism Management Courses taught in Department and field training.
6. Coordinator MSc Course – Natural Products and Biological Systems Interactions

7. Member of the Departmental Strategic Planning Committee 2010 - 2013
- 8. 9<sup>th</sup> February 2016 – Promoted to position of Associate Professor in the Department of Veterinary Pathology, Microbiology and Parasitology. Specializing in teaching and research in Veterinary parasitology – Entomology, Protozoology and Helminthology**

#### **ADMINISTRATIVE DUTIES:**

1. Have been appointed Acting Chairman, Department of Veterinary Pathology, Microbiology and Parasitology during the following dates:

1. 28<sup>th</sup> May 2006 – 3<sup>rd</sup> June 2006
2. 22<sup>nd</sup> January – 26<sup>th</sup> January 2007
3. 26 -31<sup>st</sup> May, 4 – 5<sup>th</sup> November, 15 – 17<sup>th</sup> December 2008
4. 16<sup>th</sup> July to 10<sup>th</sup> October 2012
5. 18<sup>th</sup> – 26<sup>th</sup> April 2013, 1 3<sup>th</sup> – 17<sup>th</sup> May 2013, 29<sup>th</sup> July – 1<sup>st</sup> August 2013
6. 16<sup>th</sup> – 18<sup>th</sup> October 2013
7. 20<sup>th</sup> – 21<sup>st</sup> March 2014, 28<sup>th</sup> – 30 May 2014

**2. Appointed Chairman, Department of Veterinary Pathology, Microbiology and Parasitology – 2<sup>nd</sup> February 2016 - 1<sup>st</sup> February 2019**

**3. Re –appointed Chairman, Department of Veterinary Pathology, Microbiology and Parasitology – 2<sup>nd</sup> February 2019 to 1<sup>st</sup> February 2022**

#### **SUPERVISION OF STUDENTS:**

##### **A: Undergraduate projects**

1. **Musili Rael Mueni** – Antischistosomal Activity of some Kenyan Medicinal Plants on Laboratory mice infected with *Schistosoma mansoni*. **BSc in Biomedical Technology Project 2005. Completed and Awarded**
2. **Nyaga Jacintah Wandiri** – Assessment of the diversity of sheep Genetic resources using microsatellites. **BSc in Biomedical Technology Project 2009. Completed**
3. **Ngatia Charles Ngonjo** – Antimalarial activity and toxicity evaluation of medicinal plants in Laboratory mice. **BSc in Biomedical Technology Project 2009. Completed**
4. **Bosire Rosevalentine** - Distribution of *Anopheles funestus* (Diptera; Culicidae) group in three sites in Western Kenya. **BSc in Biomedical Technology Project 2009. Completed**

5. **David Collins Owuor** – Efficiency of three DNA Extraction Methods on Archived Malaria Infected blood samples. **BSc in Biomedical Technology Project 2010. Completed**
6. **Kamakia Seleyiah Rodah**- Reliability of the HotSHOT Technique for DNA Extraction from mosquitoes.. **BSc in Biomedical Technology Project 2010. Completed**
7. **Mutiso Festus Muvea**- Validation of STEDNA Extraction method on whole and dried blood on filter papers infected with *Plasmodium falciparum*. **BSc in Biomedical Technology Project 2010. Completed**
8. **Ondabu Henry Ombongi**: Analysis of Fluoride content levels in various brands of Commercially bottled water. **BSc in Biomedical Technology Project 2013. Completed**
9. **Simeon Mweri Baya**. Quality Control of Iodized salt from some retail outlets in Kenya. **BSc in Biomedical Technology Project 2013. Completed**
10. **Dishon Mutemwa Muloi**. Study of the Pig Value Chain in the less Integrated Pork Sub sector in Urban and Peri urban Nairobi. **BVM 5<sup>th</sup> Year Project 2013 Completed**
11. **Cidee Night Khaseke**. Incidence of Dermatophilosis at OI Pejeta Ranch in Nanyuki. **BVM 5<sup>th</sup> Year Project 2014 Completed**
12. **Wilkister Kelly Nakami**. Prevalence of gastrointestinal parasites in the Mona and Fora groups of sheep and goats in Marsabit county, Kenya. **BVM 5<sup>th</sup> Year Project 2014 Completed**
13. **Elizabeth Yambaine Tipape**. The impacts of Wildlife Conservation Organizations on the Society, A case study of the African Fund for Endangered Species ( Giraffe Centre) Nairobi Kenya. **BSc Wildlife Conservation and Management Final Year project 2014. Completed**
14. **Chepkoech Jackline**. Point Prevalence of Human Influenza Viruses from Stored Samples at the National Influenza Centre, Nairobi. **BSc in Biomedical Technology Project May 2014. Completed.**
15. **Tutah Jack**. Effect of *Trypanosoma congolense* on Serum urea, Blood Urea Nitrogen, Blood cells and Weight in Mice. **BSc in Biomedical Technology Project May 2014. Completed**

16. **Abdullahi K. Bulle:** A study on prevalence of camel parasites in AthiRiver Abattoir. BVM 5<sup>th</sup> Year Project 2015. **Completed**
17. **Khalechi M. Humprey:** Investigation of the causes of Chicken Mortality in Nakuru Town. BVM 5<sup>th</sup> Year Project 2015. **Completed**
18. **Mugo S. Gachau:** Aspect of pig production parameters among small scale pig farmers around Kabete. BVM 5<sup>th</sup> Year Project 2015. **Completed**
19. **Wanjohi Victoria Wangui:** Using Physical Characteristics to Identify and Catalogue Individual Eastern Mountain Bongo (*Tragelaphus eurycerus isaaci*) at Mount Kenya Game Ranch. BSc Wildlife Conservation and Management Final Year project 2015. **Completed.**

### **B Master of Science projects**

1. **Mutua F.K.** – A study on the Epidemiology and Risk Factor Assessment of Porcine Cysticercosis in Teso District, Kenya. **MSc** in Veterinary Epidemiology and Economics, University of Nairobi **2004. Completed and Awarded**
2. **Maria Ejlerlsen** – Application of the FAMACHA technique in Diagnosis and Control of the Barber pole worm *Haemonchus contortus* in goats in Central Kenya. **MSc** in Tropical Parasitology, The Royal Veterinary and Agricultural University Denmark **2005 Completed and Awarded**
3. **Solomon Mbevo Nzai** – A survey of Zoonotic pig helminthes in Kibera Division of Nairobi District – Kenya. **MSc** in Tropical Parasitology, The Royal Veterinary and Agricultural University Denmark **2005. Completed and awarded**
4. **Irene Kamanja** – A survey of *Schistosoma bovis* infection in cattle in Kwale district Kenya. **MSc** in Applied Veterinary Parasitology, University of Nairobi **2005. Completed and Awarded**
5. **Carolyn Wanjiku Muneri** : Assessment of health Risks Associated with urban Agriculture Reuse of waste water for Irrigation. **MSc** Veterinary Pathology, Microbiology and Parasitology **Completed and awarded 2011**
6. **Donald M. Lubembe:** Molecular Characterization of the Infection and Treatment Method (ITM) vaccine for East Coast Fever using Microsatellite and Minisatelite markers. **MSc** Applied Veterinary Parasitology University of Nairobi. **Completed and awarded 2011.**

**7. Obonyo Fredrick Ojiambo:** Epidemiology and public Health Importance of gastrointestinal helminthes and hemoparasites of pigs in Homabay District, Kenya. . **MSc Applied Veterinary Parasitology Completed and awarded 2011**

**8. Eric Emali Eshitera:** A survey of porcine cysticercosis and risk factor of Teaniosis in Homabay District. **MSc Veterinary epidemiology and economics University of Nairobi. Completed and awarded 2012**

**9. Yvonne Omore :** Molecular Epidemiology of Cystic Echinococcosis in Livestock Laikipia West Sub-County, Kenya. **MSc in Applied Veterinary Parasitology Ongoing January 2018**

**10. Nancy N. Mulwa:** Abattoir Survey of common endoparasites of donkeys and associated pathological lesions in Kenya. **MSc in Veterinary Pathology and Diagnostics – Completed and Awarded 2020**

#### **C Ph.D Supervision - Completed**

1. **Francis K.Njonge** Epidemiological Survey and Control strategies of Gastrointestinal Nematodes of Cattle in Kirinyaga District, Kenya. **Ph.D** in Veterinary Parasitology, Zoology Department Jomo Kenyatta University of Agriculture and Technology. **Completed and awarded 2012**

2. **John Maina Kagira:** The Epidemiology and Economic Importance of Pig Parasites with Empasis on Zoonoses in small holder pig farms in Busia District Kenya. **Ph.D** in Veterinary Parasitology, University of Nairobi. **Completed and awarded 2010**

3. **Charles Owino Odhong”:** Integration of Organic Milk Production in Certified Small Holder Organic Farms in Kenya **Ph.D Livestock Production Systems. Completed and Awarded 2014**

4. **Jacquiline Kasiiti Lichoti.** Potential Role of Social Networks in controlling African Swine Fever (ASF) on the Kenya – Uganda Border. **Ph.D Epidemiology** Department of Public Health Pharmacology and Toxicology University of Nairobi. **Completed and Awarded December 2015**

#### **D: Ph.D Supervision – Ongoing**

1. **Richard Gashururu Simba:** Epidemiology and drug sensitivity in Glossina and Trypanasoma in cattle and buffaloes in the interface of Akagera National Park Rwanda. **Ph.D Applied Veterinary Parasitology - On going June 2021**

**2. Nicholas Musyoki Ngwili:** Designing Integrated Strategies for the control of *Taenia solium* infections in Kamuli and Hoima Districts of Uganda. Ph.D Livestock Production Systems – **On going June 2021**

**3. Obonyo Fredrick Ojiambo:** Molecular Characteristics of *Toxoplasma gondii* isolated from Donkeys in Kenya. Ph.D Applied Veterinary Parasitology – **On going June 2021**

**4. Victoria A. Kimindiu:** Seasonality and Antimicrobial Resistance of *E. coli* 0157H7 in Kajiado slaughterhouses, beef decontamination and cooking methods. Ph.D in food Science and Technology – **On going June 2021**

### **THESIS EXAMINATION**

1. **External Examiner of Dr Nyongesa Nafuna Concepta's MSc thesis**  
Entitled "Health Risk posed by calves in the transmission of zoonotic *Cryptosporidium parvum* in urban smallholder dairy production in Dagoretti Division of Nairobi, Kenya. **July 2009**
2. **Internal Examiner for Dr John Maina Kagira's Ph.D thesis.** Entitled:  
Epidemiology and Control of Pig Parasites in Small holder pig farms in Busia District, Kenya **September 2009**
3. **Internal Examiner Obonyo Fredrick Ojiambo's MSc thesis** Titled  
Epidemiology and public Health Importance of gastrointestinal helminthes and hemoparasites of pigs in Homabay District, Kenya. **July 2011**
4. **Internal Examiner of Dr Kabaka Waweru MSc Thesis** Titled Prevalence and risk factors for Gastrointestinal nematode infection and efficacies of anthelmintics in cattle in Mukurwe-ini and Nakuru Districts **July 2011**
5. **Internal Examiner of Dr Eric Emali Eshitera's MSc Thesis** titled  
Prevalence of porcine cysticercosis in free range pigs and the associated risk factors in Homa Bay District, Kenya **November 2011**
6. **Internal Examiner for Dr Andrew Konde Matole's MSc Thesis** titled " A study on the causes of puppy morbidity and mortality among dog breeders in Nairobi County and its environs" **November 2014**

7. **Internal Examiner for Dr Lichoti Jacqueline Kasiti's Ph.D Thesis** titled  
“Potential Role of Social Networks in Controlling African Swine Fever risk  
on Kenya – Uganda border” **June 2015**
8. **Internal Examiner for Dr Kenneth Otieno Orengo's Thesis** titled  
“Efficacy of Allium sativum, Allium cepa and Jatropha curcas on Common  
Natural Gastrointestinal Helminths in Dogs **September 2016**
9. **Internal Examiner for Dr Nancy Ndinda Mulwa's MSc thesis Titled**  
“Survey of Endoparasites and Associated Lesions in Donkeys in selected  
Abattoirs in Kenya” September 2019
10. **Internal Examiner for Erastus Mulinge Kakundi's Ph.D Thesis Titled**  
“Molecular Epidemiology of Echinococcus and Taenia Species in Dogs from  
Cystic Echinococcosis Endemic areas of Kenya” **November 2019**

Member of board of examiners for the following

- i. Dr John Maina Kagira's **Ph.D Thesis December 2009**
- ii. Dr Joshua Oluoch Amimo's **Ph.D thesis September 2014**
- iii. Dr Lichoti Jacqueline Kasiti's **Ph.D thesis November 2015**
- iv. Dr Andrew Konde Matole's **MSc Thesis February 2015**
- v. Amos Kamau Kiragu's **MSc Thesis July 2015**
- vi. Mr Kiraithe Micheni Ndei's **MSc thesis November 2015**
- vii. Dr Orengo Kenneth Otieno's **MSc thesis November 2016**
- viii. Dr Makau Laban Ngunga's **MSc thesis May 2017**
- ix. Dr Samuel Maina Kahariri **MSc thesis April 2018**
- x. Lamuka **P. Ph.D Thesis July 2019**
- xi. Dr Nancy N. Mulwa **MSc Thesis November 2019**
- xii. Dr Nelson Ochieng Owage's **MSc Thesis July 2014**
- xiii. Dr Kisa Toroitich – **Msc Thesis November 2013**
- xiv. Dr Eric Eshitera Emali – **Msc Thesis March 2012**



- xv. Dr Fredrick Ojiambo's MSc Thesis **August 2011**
- xvi. Dr Waweru Kabaka's MSc Thesis **August 2011**
- xvii. Dr Donald M. Lubembe – Msc Thesis **November 2010**
- xviii. Lucas Luvai Azaale Asaava's MSc Thesis **-June 2009**
- xix. Dr Kiema Edward Kisenge's MSc Thesis – **January 2009**
- xx. Florence Kanini Mutua's MSc thesis - **May 2006**

### **EXTERNAL EXAMINATION:**

**1. External Examiner – Jomo Kenyatta University of Agriculture and Technology  
Faculty of Agriculture, - Department of Animal Science JKUAT 2010 – 2014.**

**2014 to 2016**

**Re appointed 2016 to 2021**

**2. Appointed External Examiner for the Animal Health and Industry Training Institutes by  
Dean FVM July 2014 to July 2017**

### **CONSULTANCIES:**

**1. National Consultant – Pig Sector Review in Kenya-** Project of FAO –ECTAD Regional  
Office for East Africa , July – October 2010.

Submitted a comprehensive report on the pig sector in Kenya after interacting with various stakeholders in the livestock industry in Kenya. The report included current policies and legal frame work affecting the pig sector in Kenya. The strength, potential and weaknesses of the industry were analyzed and a strategy for the pig industry formulated.

**2. Appointed member to the taskforce on National Pig Development Strategy (NPDS)  
by PS Ministry of Livestock Development – June 2012**

The National Pig Development Strategy was completed in June 2013. A cabinet Memo was prepared. Document to be tabled in Cabinet for approval and implementation.

**3.Appointed Member of the Internship Implementation Subcommittee of the Kenya  
Veterinary Board 2014.**

### **RESEARCH GRANTS**

**WSAVA Foundation/ AFSCAN Arthropod –borne Infectious Disease Surveillance  
Project in Dogs and Cats in Kenya –USD \$ 8,500. November 2018**

## **LINKAGES ESTABLISHED**

African Small Companion Animal Network (AFSCAN)  
World Small Animal Veterinary Association (WSAVA)  
Kenya Medical Research Institute (KEMRI)  
International Livestock Research Institute (ILRI)  
Food and Agricultural Organization of the United Nations (FAO)  
Kenya Agricultural Research Institute (KARI)  
Kenya Wildlife Service (KWS)  
Institute of Primate Research (IPR)  
Jomo Kenyatta University of Agriculture and Technology (JKUAT)  
Mount Kenya University  
Egerton University  
Kenyatta University  
Kenya National Pig Farmers Association  
Ministry of Health (MOH)  
Ministry of Livestock Development  
Ministry of Education

## **SCHOLARSHIPS:**

Kenya Government: 1983 – 1987 - Undergraduate Studies.  
University of Nairobi: 1987 – 1989 – Masters studies.  
DANIDA ENRECA Livestock Helminth Research Project:  
1995 – 1999 – PhD studies.

## **SEMINARS / CONFERENCES ATTENDED**

1. . Attended a one day regional Kenya Veterinary Board Stakeholders workshop at KARI Headquarters - Tuesday 21<sup>st</sup> May 2013
2. Biennial Scientific Conference of the Faculty of Veterinary Medicine Nairobi Kenya November **2004, 2006. 2008. 2010, 2012, 2014**
3. 19<sup>th</sup> International conference for the World Association for the Advancement of Veterinary Parasitology (WAAVP) New Orleans LA August 2003.
4. 18<sup>th</sup> International Conference for the World Association for the Advancement of Veterinary Parasitology (WAAVP) Stressa Italy August 2001
5. 10<sup>th</sup> DANIDA funded Livestock Helminth Research Project Annual Seminar May 2001 Nairobi Kenya.
6. 17<sup>th</sup> International Conference for the World Association for the Advancement of Veterinary Parasitology (WAAVP) Copenhagen Denmark August 1999
7. Faculty of Veterinary Medicine Biennial Scientific Conference, August 1998.
8. 16<sup>th</sup> International Conference for the World Association for the Advancement of Veterinary Parasitology (WAAVP) Sun City South Africa August 1997.

9. International Symposium on Veterinary Epidemiology and Economics (ISVEE), Nairobi August 1994.
10. Kenya Veterinary Association Scientific Conference on Veterinary Helminthology November 1993.
11. Kenya Veterinary Association Annual Scientific Conference on Veterinary Education and Needs in the 21<sup>st</sup> century April 1993.
12. 2<sup>nd</sup> DANIDA funded Ruminant Helminth Research Project Annual Seminar January 1993.
13. Animal Production Society of Kenya Annual Symposium November 1991 Nairobi.
14. Nairobi Cluster Scientific Meeting – Application of Biotechnology October 1991.
15. African Small Ruminant Research Network (ASNET) Biannual Conference December 1990 Nairobi Kenya.
16. Faculty of Veterinary Medicine Annual Scientific Conference, 13 – 15 September 1990.
17. 4<sup>th</sup> African, Mediterranean and Near East congress of Clinical Chemistry January 1990.
18. Faculty of Veterinary Medicine Annual Scientific Conference, 13 – 15 September 1989.

#### **TRAINING WORKSHOPS ATTENDED:**

1. Continuous Professional Development (CPD) Workshop Practical Approaches for diagnosis and treatment of Poultry Diseases. Organized by Department of Veterinary Pathology, Microbiology and Parasitology – 6<sup>th</sup> August 2014.
2. Continuous Professional Development (CPD) Workshop Diagnosis as a tool for Animal Health – Organized by KWVA – 18<sup>th</sup> July 2014
3. **Continuous Professional Development (CPD) Training on Enhancing Healthy Production Systems for Socio-Economic Gains.** Organized by Kenya Veterinary Association Central Branch , 30<sup>th</sup> September to 1<sup>st</sup> October 2013 at Wambuku Hotel Naivasha.
4. **Pig feeding trial Review** meeting held on June 22<sup>nd</sup> 2012 at JMB Motel Kerugoya – International Potato Centre – Animal Feed SASHA Project
5. **PhD Supervision Training Workshop 23 – 25<sup>th</sup> March 2011** - University of Nairobi, College of Agriculture and Veterinary Sciences
6. **FAO – ECTAD Workshop for pig sector stakeholders** NURU PALACE HOTEL, NAKURU 10 -11<sup>th</sup> NOVEMBER 2010
7. **International Conference/ workshop on Neglected Tropical Diseases** – Hidden Successes, Emerging Opportunities. Charles Merieux Centre Bamako, Mali. 25 – 27<sup>th</sup> September 2008.
8. **International Workshop on Veterinary Public Health.** Organized by Centre for International Cooperation (MASHAV) and Centre for International Agricultural Development Cooperation (CINADCO) Israel March – April 2003.
9. **International Action Planning workshop on *Taenia solium* cysticercosis and taeniosis** with special focus in East and Southern Africa. Organized by DBL,

- DANIDA ENRECA and the Cysticercosis Working Group in East and Southern Africa (CWGESA) Arusha Tanzania August 2002.
10. **Disseminating Research Findings to Farmers.** Workshop on production of farmer friendly extension materials to disseminate the research finding. Organized by DANIDA ENRECA LHRP in Eastern and Southern Africa and Facilitated by Development communications. Nairobi May 200
  11. **Human Helminth Infections** – Future Research Foci: Workshop Held in Lusaka Zambia March 2001. Organized by the Danish Bilharziasis Laboratory
  12. **Biological Control of Gastrointestinal Nematodes Using Predacious Fungi.** Practical training on the isolation, identification and cultivation of predacious fungi that feed on nematodes. Ipoh Malaysia October 1997. Organized by the Danish Centre for Experimental Parasitology and FAO.

### **PAPERS PRESENTED DURING CONFERENCES:**

1. Khaseke, C.N., **Githigia, S.M.**, Shah D.N. 2014. Incidence of Dermatophilosis in young calves at Ol Pejeta Ranch Nanyuki. Presented at the 9<sup>th</sup> FVM Biennial conference 3<sup>rd</sup> – 5<sup>th</sup> September held at Kabete - Programme and Abstracts page 69.
2. Wilkister Nakami, Claire Okell, Mutembei H., **Githigia, S.M.** and Otieno, R. 2014. A study of the prevalence of internal parasites in the fora and mona groups of sheep and goat populations in Marsabit County. Presented at the 9<sup>th</sup> FVM Biennial conference 3<sup>rd</sup> – 5<sup>th</sup> September held at Kabete - Programme and Abstracts page 71.
3. **Githigia Samuel 2013.** Overview of the pig Sector in Kenya. Presented at the AGRI-PROFOCUS/ KLPFA Stakeholders meeting on the pig sector on Exploring Business Opportunities in the Pig Sector held on 3<sup>rd</sup> October 2013 at Silver Springs Hotel Nairobi.
4. Cooper, J.E, Cooper M.E., Nyaga P.N., Gathumbi, P.K., Mbuthia, P.G., Njagi, L.W. and **Githigia, S.M.** (2012). Veterinary Forensic Medicine: an emerging and important discipline. Presented at the 8<sup>th</sup> joint FVM/ KVA Biennial Conference 26 – 30 April 2012 Safari park Hotel
5. Lubembe, D.M., **Githigia, S.M.**, Chogo, P., Athumani, H. M. and Kitaa J.M. 2012. Management of bovine papillomatosis using an autogenous Vaccine: A case study in Bukura Agricultural College, Western Kenya. Presented at the 8<sup>th</sup> joint FVM/ KVA Biennial Conference 26 – 30 April 2012 Safari park Hotel.
6. **Githigia, S.M.**, Murekefu, K., Kahai, R. (2003). Prevalence of porcine Cysticercosis and risk factors for *Taenia solium* taeniosis in Funyula Division of Busia District Kenya. Presented at the 19<sup>th</sup> International Conference for the World Association for the Advancement of Veterinary Parasitology (WAAVP) New Orleans LA 10<sup>th</sup> – 14<sup>th</sup> August 2003.

7. **Githigia, S.M.** (2001). Cysticercosis and Hydatidosis in Kenya. Presented at the Human Helminth Infections – Future Research Foci workshop Lusaka Zambia 5 – 9<sup>th</sup> March 2001.
8. **Githigia, S.M.**, Maingi, N., Willingham, A.L. and Boa, M.E. (2001). Porcine cysticercosis in Kenya. Presented at the 10<sup>th</sup> Annual meeting of the DANIDA ENRECA LHRP ILRI Nairobi Kenya 3<sup>rd</sup> – 5<sup>th</sup> May 2001.
9. **Githigia, S.M.** Thamsborg, S.M. and Larsen, M. (2001) Effectiveness of grazing management in the control of gastrointestinal nematodes in weaner lambs in Denmark. Presented at the 18<sup>th</sup> International Conference for the World Association for the Advancement of Veterinary Parasitology (WAAVP) Stressa, Italy 26<sup>th</sup> – 30<sup>th</sup> August 2001.
10. **Githigia S.M.**, Larsen, M., Thamsborg, S.M., Nansen, P. (1998). The effect of *Duddingtonia flagrans* on naturally acquired ovine nematode infections. Presented at the Faculty of Veterinary Medicine Biennial Scientific Conference, 5 – 7<sup>th</sup> August 1998.
11. **Githigia, S.M.**, Thamsborg, S.M., Nansen, P., Munyua, W.K. and Maingi, N. (1999). Impact of gastrointestinal helminthes on production in goats. Presented at the 17<sup>th</sup> International Conference for the World Association for the Advancement of Veterinary Parasitology (WAAVP) Copenhagen Denmark 15<sup>th</sup> – 19<sup>th</sup> August 1999.
12. **Githigia, S.M.**, Thamsborg, S.M., Nansen, P., Munyua, W.K. and Maingi, N. (1999). Biological control of sheep nematodes and the epidemiology, control and impact of naturally acquired gastrointestinal nematodes in goats. Presented at the 8<sup>th</sup> Annual meeting of the DANIDA ENRECA LHRP Copenhagen Denmark 24 – 25<sup>th</sup> August 1999.
13. **Githigia, S.M.**, Larsen, M., Thamsborg, S.M., Nansen, P. and Kyvsgaard, N.C. (1997). Variation in the shedding of various species of *Nematodirus* by naturally infected lambs over the grazing period in Denmark. Presented at the 6<sup>th</sup> DANIDA funded Ruminant Helminth Research Project annual meeting, ILRI, Nairobi Kenya 27 – 31<sup>st</sup> January 1997.
14. Thamsborg, S.M., **Githigia, S.M.**, Larsen, M., Kyvsgaard, N.C. and Nansen, P. (1997). The effect of a nematode destroying fungus *Duddingtonia flagrans* on natural nematode infections of grazing sheep. Presented at the 4<sup>th</sup> International Congress for Sheep Veterinarians Armidale Australia 2 – 6<sup>th</sup> February 1997.
15. **Githigia, S.M.**, Munyua, W.K., Thamsborg, S.M. Kyule, M.N. and Nansen, P. (1997). A helminth infection in goats – Effect of treatment at beginning of rains on weight and faecal egg counts on large and small-scale farms in Central Kenya. Presented at the 16<sup>th</sup> International Conference for the World Association for the Advancement of Veterinary Parasitology (WAAVP) Sun City South Africa 10<sup>th</sup> – 15<sup>th</sup> August 1997.
16. **Githigia, S.M.** (1997). Importance of gastrointestinal helminth to the livestock industry in Kenya. Presented at the FAO – DCEP workshop on Biological control of gastrointestinal nematodes using predacious fungi. 5<sup>th</sup> – 12<sup>th</sup> October 1997.
17. **Githigia, S.M.**, Larsen, M., Thamsborg, S.M., Nansen, P. and Kyvsgaard, N.C. (1996). Biological control of sheep nematodes by use of nematode destroying

- fungi *Duddingtonia flagrans*. Presented at the 5<sup>th</sup> DANIDA funded Ruminant Helminth Research Project annual meeting, Harare Zimbabwe 18 – 24 January 1996.
18. **Githigia, S.M.**, Okomo. M.O., Inyangala, B.O., Wanyoike, M.M. Okeyo, M. and Munyua, S.J.M. (1995). Prevalence and infection levels of helminth in goats at Machanga field station over a period of one year. Presented at the 4<sup>th</sup> DANIDA funded Ruminant Helminth Research Project annual meeting, Arusha Tanzania 23 – 27 January 1995.
  19. **Githigia, S.M.** and Okeyo, M. (1995). Preliminary survey of the importance of goats and constraints of helminthiasis to goats production among small scale farmers in Machanga location Embu. Presented at the 4<sup>th</sup> DANIDA funded Ruminant Helminth Research Project annual meeting, Arusha Tanzania 23 – 27 January 1995.
  20. **Githigia, S.M.**, Okomo, M.A., Inyangala, B.O., Okeyo, M. and Thamsborg, S.M. (1995). Prevalence of parasitic diseases of goats on small scale farms in Embu District Kenya. Presented at the 17<sup>th</sup> symposium of the Scandinavian Society for Parasitology, Jyvaskyla, Finland 15 – 17 June 1995.
  21. Thamsborg, S.M., **Githigia, S.M.** and Larsen, M. (1995). New and old approaches to the control of nematodes. Presented at the autumn meeting of the Sheep Veterinary Society, Sandnes, Norway 6 – 8 September 1995.
  22. **Githigia, S.M.** (1995) Diseases affecting goats in arid and semi arid areas in the tropics- economic importance, an example from Kenya. Poster presented at the 8<sup>th</sup> International Conference of the Association for the Institutions of Tropical Veterinary Medicine (AITVM), Berlin, 25 – 29 September 1995.
  23. **Githigia, S.M.**, Mwangi, D.M., Kimoro, C.O. and Gichanga, E.J. (1993). Prevalence and Economic importance of some helminthes in abattoirs around Nairobi. Presented at the 2<sup>nd</sup> DANIDA funded Ruminant Helminth Research Project annual meeting. Nairobi January 18 – 22 1993.
  24. **Githigia, S.M.**, Munyua, W.K. and Kanyari P.W.N. (1993). Prevalence of coccidiosis in goats in Kenya. Presented at the 2<sup>nd</sup> DANIDA funded Ruminant Helminth Research Project annual meeting. Nairobi January 18 – 22 1993.
  25. **Githigia, S.M.** and Waruiru, R.M. (1990). The prevalence of coccidian of goats in Naromoru area of Kenya. Presented at the 8<sup>th</sup> SR – CRSP Scientific workshop, 7 – 8 March 1990 Nairobi Kenya.

## **TITLES OF THESIS**

### 1. Ph. D

**Githigia, Samuel Maina** (2000) The epidemiology and Impact of gastrointestinal nematode infections in goats in Kenya and the effect of grazing management and biological control on gastrointestinal nematodes in sheep in Denmark. **PhD thesis University of Nairobi**, 2000.

### 2. MSc

**Githigia, Samuel Maina.** (1990) Caprine Coccidiosis: Epidemiological studies and aspects of pathology. **Masters of Science Thesis University of Nairobi** 1990.

## LIST OF PUBLICATIONS:

### Parasitology Research

#### HELMINTHOLOGY - ORIGINAL PAPER

Co-infection of pigs with *Taenia solium* cysticercosis and gastrointestinal parasites in Eastern and Western Uganda

1. Nicholas Ngwili, Lian Thomas, Samuel Githigia, Dishon Muloi, Karen Marshall, Raphael Wahome and Kristina Roesel. (2021) Co-infection of pigs with *Taenia solium* cysticercosis and gastrointestinal parasites in Eastern and Western Uganda. Parasitology Research <https://doi.org/10.1007/s00436-021-07380-9> November 2021
2. Dieter Heylen, Michael Day, Bettina Schunack, Josephus Fourie, Michel Labuschagne, Sherry Johnson, Samuel Maina Githigia, Foluke Adedayo Akande, Jahashi Saidi Nzalawahe, Dickson Stuart Tayebwa, Ortwin Aschenborn, Mary Marcondes and Maxime Madder (2021). A community approach of pathogens and their arthropod vectors (ticks and fleas) in dogs of African Sub-Sahara Parasites Vectors (2021) 14:576 <https://doi.org/10.1186/s13071-021-05014-8>
3. Maurice K. Murungi, Dishon M. Muloi, Patrick Muinde, Samuel Maina Githigia, James Akoko, Eric M. Fevre, Jonathan Rushton and Pablo Alarcon (2021). The Nairobi Pork Value Chain, Mapping and Assessment of Governance, Challenges and Food Safety Issues. Frontiers in Veterinary Science 10 February 2021. <https://doi.org/10.3389/fvets.2021.581376>
4. Richard S. Gashururu, Samuel M. Githigia, Richard S. Habimana, Ndichu Maingi, Giuliano Gecchi, Massimo Paone, Weining Zhao, Daniel K. Masiga, James Gashumba, Methode N. Gasana (2021). An update on the Distribution of *Glossina* (tsetse flies) at the Wildlife-Human-Livestock interface at Akagera National Park, Rwanda. Parasites and Vectors. PARAV-D-21- 0016
5. Nicholas Ngwili, Nancy Johnson, Raphael Wahome, Samuel Githigia, Kristina Roesel and Lian Thomas (2021). A qualitative Assessment of the Context and Enabling Environment for the Control of *Taenia solium* Infections in Endemic Settings. PLoS Negl Trop Dis 15(6): e0009470. <https://doi.org/10.1371/journal.pntd.0009470>
6. Nancy Mulwa, **Samuel Githigia**, Davis Karanja, Cecilia Mbae, Eberhard Zeyhle, Erastus Mulinge, Japhet Magambo, and Kennedy Ogolla (2020). Prevalence and Intensity of Gastrointestinal Parasites in Donkeys in Selected Abattoirs in Kenya. **Hindawi Scientifica Volume 2020**, Article ID 5672140, 8 pages
7. Jacqueline Kasiiti Lichoti, Jocelyn Davies, Philip M. Kitala, Samuel M. Githigia, Edward Okoth, Yiheyis Maru, Salome. A. Bukachi, Richard P. Bishop (2017). Pig traders' networks on the Kenya-Uganda border highlight potential for mitigation of African swine fever virus transmission and improved ASF disease risk management **Preventive Veterinary Medicine Journal 140 (2017) 87 – 96.**

8. Jacqueline Kasiiti Lichoti, Jocelyn Davies, Philip M. Kitale, Samuel M. Githigia, Edward Okoth, Yiheyis Maru, Salome A. Bukachi, Richard P. Bishop (2016). Social network analysis provides insights into African swine fever epidemiology. **Preventive Veterinary Medicine Journal** 126 (1 April) 1 - 10
9. Odhong, C., Wahome, R. G., Vaarst, M., Nalubwama, S., Kiggundu, M., Halberg, N., & **Githigia, S.** (2014). In vitro anthelmintic effects of crude aqueous extracts of *Tephrosia vogelii*, *Tephrosia villosa* and *Carica papaya* leaves and seeds. *African Journal of Biotechnology*, 13(52), 4667-4672.
10. Odhong' C., Wahome R.G., Vaarst M., Kiggundu M., Nalubwawa S., Halberg N and **Githigia S.** (2014). Challenges of conversion to organic dairy production and prospects of future development in integrated smallholder farms in Kenya. *Livestock Research for Rural Development* Volume 26 (7) 2014. 125
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13. Eshitera E.E., **Githigia, S.M.**, Kitale, P.M., Lian F. T., Eric M.F., Leslie JS Harrison, Mwihi, E.W., Otieno, R.O., Obonyo, F.O. and Maingi, N (2012). Prevalence of porcine cystercosis and associated risk factors in Homa Bay District, Kenya. *BMC Veterinary Research* 2012, **8** 234 - 239
14. **Samuel Maina Githigia**, Sam Okuthe, Bouna Diop (2012) Pig Sector Kenya. FAO Animal Production and Health Livestock Country Reviews No.3 Rome
15. Kagira, J.M.; Kanyari, P.W.N.; **Githigia,S.M.**; Maingi,N.: Nganga, J.C.; Gachohi, J.M. (2011). Risk factors associated with occurrence of nematodes in free range pigs in Busia District, Kenya. *Trop Anim Health Prod* (August 2011)
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22. Mutua, F.K., Randolph, T.E., Arimi, S.M., Kitala, P.M., **Githigia, S.M.** Willingham, A.L. and Njeru, F.M. (2007). Palpable lingual cysts, a possible indicator of porcine cysticercosis in Teso District Western Kenya. Journal of swine health and production July and August 2007, Volume 15 Number 4 pp 206 – 211.
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27. Mbae, C.K., **Githigia, S.M.**, Njoroge, E.M., Magambo, J.K and R.O. Otieno (2004). Prevalence of gastrointestinal nematodes in small ruminants in semi-arid Turkana District of Kenya. Bulletin of Animal Health and Production in Africa **52** pp 85 – 90.
28. **Githigia, S.M.**, Thamsborg, S.M., Munyua, W.K. and Maingi, N. (2001). Impact of gastrointestinal helminths on production in goats in Kenya. Small Ruminant Research **42** pp 21 – 29.
29. **Githigia, S.M.** Thamsborg, S.M. and Larsen, M. (2001) Effectiveness of grazing management in the controlling gastrointestinal nematodes in weaner lambs on pasture in Denmark. Veterinary Parasitology **99** (1) pp 15 – 27.
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32. **Githigia S.M.**, Larsen, M., Thamsborg, S.M., Nansen, P. (1998). The effect of *Duddingtonia flagrans* on naturally acquired ovine nematode infections. In: Advances in Veterinary Education and Animal Sciences: Proceeding of the Biennial Scientific Conference of the Faculty of Veterinary Medicine. Kenya Veterinarian **23** pp 141 – 144.
33. **Githigia, S.M.** (1998). Importance of gastrointestinal helminths to the livestock industry in Kenya. In: Biological Control of Gastrointestinal Nematodes of

- Ruminants using Predacious fungi – FAO Animal Production and Health Paper **141** pp 72 – 77.
34. **Githigia, S.M.**, Thamsborg, S.M., Larsen, M., Nansen, P. and Kyvsgaard, N.C. (1997). The preventive effect of the fungus *Duddingtonia flagrans* on Trichostrongyle infections of lambs on pasture. *International Journal for Parasitology* **27** (8) 931 – 939.
  35. Munyua W.K, **Githigia S.M**, Mwangi D.M, Kimoro C.O, Ayuya J.M (1997) The effect of a controlled release albendazole capsule (Profril – Captec) on parasitism of grazing Corriedale ewes in the Nyandarua district of Kenya. *Veterinary Research Communications* **21**: 85 – 89.
  36. **Githigia.S.M.**, Okomo. M.A., Inyangala, B.O., Munyua, S.J., Okeyo, M. and Otieno, O. (1996). Prevalence and infection levels of helminthes in goats at Machanga field station over a period of one year. *Bulletin of Animal Health and Production in Africa* **44** pp 111 – 113.
  37. **Githigia.S.M.**, Kimoro, C.O., Mwangi, D.M. and Gichanga, J. (1995). The economic impact of Oesophagostomum; A survey in abattoirs around Nairobi. *Bulletin of Animal Health and Production in Africa* **43** pp 29 – 33.
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  39. **Githigia, S.M**, Munyua, W.K. and Kanyari P.W.N. (1992). Prevalence of Eimeria species in some areas of Central Kenya. *Bulletin of Animal Health and Production in Africa* **40** pp 283 – 285.
  40. **Githigia, S.M**, Munyua, W.K. and Kanyari P.W.N. (1992). Observation of the pathology of natural Eimeria infection in kids. *Bulletin of Animal Health and Production in Africa* **40** pp 235 – 237.
  41. **Githigia, Samuel Maina**. (1990) Caprine Coccidiosis: Epidemiological studies and aspects of pathology. **Masters of Science Thesis University of Nairobi** 1990.
  42. **Githigia, Samuel Maina** (1990) Diseases of goats: In **Farmers Directory** 1990 pp 148 – 152.
  43. **Githigia, Samuel Maina** (1990) Diseases of sheep: In **Farmers Directory** 1990 pp 153 = 156

### **Chapter in a book**

1. CHAPTER 6, pages 156 – 175: **Efficacy of Neemand Pawpaw products against *Oesophagostomum spp* infection in pigs** . John Maina Kagira, Paul Njuki Kanyari, **Samuel Maina Githigia**, Ng'ang'a Chege and Ndicho Maingi . In *Anthelmintics Clinical Pharmacology, Uses in Veterinary Medicine and Efficacy* .Editor: William Quick 2014 Nova Science publisher Inc.

### **Authorship of Technical Manual**

1. **Samuel Maina Githigia**, Sam Okuthe, Bouna Diop (2012) Pig Sector Review Kenya. FAO Animal Production and Health Livestock Country Reviews No.3 Rome

### **RESEARCH ACTIVITIES:**

## 1. Current Research Activities:

1. Principal Investigator – African Small Companion Animal Network (AFSCAN) Arthropod- borne Infectious Diseases Surveillance Project in dogs and Cats in Kenya. **November 2018 – ON GOING**

2. Survey of Endoparasites and Associated Lesions in Slaughtered Donkey in Kenya.

3. Potential Role of Social Networks on African Swine Fever (ASF) Risk along Kenya – Uganda Border.

4. Developing Innovative Strategies to Enhance Integration of Organic Milk Production in Certified Organic Farms.

5. Development of the Kenya National Pig Development strategy

## 2. Completed Research Activities

1. Genetic studies of Galla and Small East African Goats and their correlated growth and reproduction performance under different nutritional levels and *Haemonchus* challenge (Funded by ILCA and University of Nairobi).

2. Ruminant Helminth Research. Joint project between DANIDA, Royal Veterinary & Agricultural University Denmark and Parasitology section of the University of Nairobi. Research on epidemiology and control of economically important ruminant helminthes. The project established the important nematodes and recommended various control strategies to farmers.

3. Biological control of gastrointestinal nematodes using nematophagous fungi *Duddingtonia flagrans*. The project showed that this fungi is able to significantly reduce pasture contamination and infective larvae uptake by grazing lambs.

4. Prevalence, impact and control of gastrointestinal helminthes in goats in the marginal and semi arid areas of Kenya. This project was funded by DANIDA / ENRECA and University of Nairobi. The project established the prevalence of the helminthes in goats, their impact and sustainable control measures of the same in goats.

5. The effectiveness of grazing management practices in the control of gastrointestinal nematodes in weaner lambs on pasture. This project showed that moving sheep to a clean pasture rested for one year has beneficial effects comparable to monthly dosing.

6. Application of the FARMACHA technique in diagnosis and control of the barber pole worm, *Haemonchus contortus*, in goats in Central Kenya. On farm research project that seeks to reduce the number of anthelmintic treatments and delay onset of anthelmintic resistance. Project involves University of Nairobi and The Royal Veterinary and Agricultural University of Denmark. An MSc student from Denmark is attached to this project on two farms in Thika and Maragua districts.

7. Diagnosis and Control Tools and Strategies for *Taenia solium* Cysticercosis. **Coordinator of field activities and implementation of research activities in Kenya.** Supervisor of students and conducting awareness generating workshops on the control of porcine

cysticercosis. **training smallholder pig farmers, pig traders and meat inspectors** on various aspects of pig production and management. Project between University of Nairobi, Sokoine University, Makerere, National Research Laboratory, Rwanda, ILRI, Central Veterinary Laboratory Kinshasa, DRC, National Veterinary Laboratory Burundi and Faculty of Sciences University of Antananarivo, Madagascar. Funded by ASARECA. Two MSc students attached

8. Survey and diagnosis of porcine cysticercosis in Kenya. Project funded by DANIDA ENRECA LHRP with the aim of establishing the prevalence and impact of the disease in areas where positive cases identified at meat inspection originate. The project is also **training smallholder pig farmers, pig traders and meat inspectors** on various aspects of pig production and management. This includes Feeding and nutrition, Housing, breeding, Health and Marketing of pigs. The project is also extending across the borders of Uganda and Tanzania where some of the positive pigs originate.

9. Survey, diagnosis, treatment and control of *Taenia solium* cysticercosis and taeniosis in human beings in East and southern Africa. The project is funded by DANIDA with support from DCEP, DBL, WHO, FAO. The project organized an international action-planning workshop in Arusha in August 2002 on the disease in the region. The overall goal is to establish the prevalence of the infection in human beings and sustainable control measures. Prevalence of neurocysticercosis in the region will also be established. The project is linked to other similar projects in Central America and South East Asia.

10. Main facilitator and resource person on **Training of Women Dairy Goat Farmers Groups** on the Health, Management, Housing, Feeding and use of FAMACHA Anemia Chart in Dairy Goats. This is been undertaken in collaboration with the Extension officers of the Ministry of Agriculture in Maragua District and targets Women groups that have benefited from Dairy Goats donated by various agencies in the poverty Alleviations campaigns.

11. Assessment of health Risks Associated with urban Agriculture Reuse of waste water for Irrigation. Supervisor In-charge of parasitological risks. Project between University of Nairobi, International Potato Centre / Urban harvest and funded by IDRC. An MSc student is attached.

## **OUTREACH/EXTENSION ACTIVITIES**

a) Training of small scale pig farmers on various aspects of pig husbandry and management in Funyula and Bundalangi Division of Busia District – May 2002

b) Training of small Scale Dairy Goat farmers on diagnosis, control and treatment of gastrointestinal helminthes in goats in Makuyu Division of Muranga South District. March – June 2005.

c) . **Training of stakeholders on Teania solium cysticercosis control options** - Homa bay County 11 – 16<sup>th</sup> October 2010

Trained small scale pig farmers on knowledge of *Taenia solium* and the choices available for prevention and control of *T.solium* cysticercosis and Taeniosis

d) **PIG SECTOR REVIEW IN KENYA** – stakeholders workshop organized by FAO ECTAD at Nuru Palace Hotel Nakuru 11<sup>th</sup> November 2011. Presented a paper on Pig sector in Kenya and facilitated group discussions

e) **Pork Value Chain Stakeholders Workshop** Organized by KARI Naivasha and Kenya Agricultural Productivity Programme (KAPP) . Held at KARI Thika Between 21<sup>st</sup> – 24<sup>th</sup> June 2011. Presented a plenary section Paper on current status of the pig sector. Participated in the drawing up of the vision, value chain maps, key players and interventions.

f) **KVB/ UON two days Continuing Professional Development Course on Trends In Veterinary Parasitology** held between 10 – 11<sup>th</sup> August 2011. Presented a paper titled “ Tapeworms and Flukes of Veterinary/ Medical Importance”

g) Reviewed **KAPP Final Report on Meat Value Chain Analysis Eastern and North Eastern regions** for Agric and Co-operative Training and Consultancy Services January 2013

f) Facilitated regional stakeholders workshops (Nairobi, Central, Rift Valley and Nyanza/ Western) for the Kenya National Pig Development Strategy where was the main consultant between October 2012 and March 2013.

**FAITH:** Born again Christian  
**Patron UKCCU 2015 - 2017**

**LANGUAGES:** Fluent in English and Kikuyu. Can also communicate in Kiswahili

**OTHER SKILLS:**

1. Computer literate, word processing, data entry and analysis
2. Internet and E – mail knowledge in sending, receiving, attachments and file downloading.
3. **Qualified counselor in Christian counseling**
4. **Qualified community development facilitator and trainer.**

**MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS:**

1. Registered Veterinary surgeon with Kenya Veterinary Board
2. Registered member of the Kenya Veterinary Association
3. Member of Animal production Society of Kenya.
4. Member of the African Institute for Scientific Research and Development (AISRED).
5. Member of Friends of Farm - Kenya (FOF)
6. Member of the African rural pig production group.
7. Member of the Cysticercosis Working Group in East and Southern Africa (CWGESA)
8. Member of Board of Governors – Nairobi Pentecostal Church Academy - Woodley

**MEMBERSHIP OF OTHER SOCIAL /RELIGIOUS BODIES**

1. Life member of the Bible Society of Kenya.
2. Life member of Literacy and Evangelism fellowship.

3. Member of Fellowship of Christian Unions (FOCUS)
4. Life member of Nairobi Pentecostal Church.
5. Member of the Gideon's International
6. Secretary Departmental Welfare Association

**REFEREES:**

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