

Curriculum Vitae

Professor Ndichu Maingi

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3. PERSONAL BIODATA:

NAME: Ndichu Maingi

MARITAL STATUS: Married with 3 children

POSITION: Professor of Veterinary Parasitology

PROFESSION: Registered Veterinary Surgeon in the Republic of Kenya **No. 001711**

4. SCHOOLS ATTENDED AND CERTIFICATES OBTAINED

1966 - 1972:	Karai Primary School, Kikuyu, Kiambu County Certificate of Primary Education (CPE)
1973 -1976:	Kirangari High School, Kikuyu, Kiambu County Kenya Certificate of Secondary Education (KCSE)
1977 - 1978:	Njiri's High School, Maragwa, Muranga County Kenya Advanced Certificate of Secondary Education (KACSE)

5. UNIVERSITY EDUCATION

Post-doctoral Fellowship (Parasitology)	University of Pretoria, South Africa	2002
Doctor of Philosophy (Parasitology)	University of Nairobi, Kenya	1996
Master of Science (Parasitology)	McGill University, Canada	1989
Bachelor of Veterinary Medicine	University of Nairobi, Kenya	1984

6. AREARS OF SPECIALIZATION

Veterinary Parasitology with a focus on anthelmintic resistance and integrated management interventions for gastrointestinal nematodes of grazing livestock

7. ADDITIONAL TRAINING

- Use of Laboratory Animals in Teaching and Research, McGill University, 1988.
- Use of the FAMACHA^R guide in the control of wire-worm in sheep, University of Pretoria, South Africa, 14th June, 2000
- Methods of disseminating research findings to farmers, The Mediae Company, Nairobi Kenya, 7th – 11th May 2001
- Diploma in Theology, Presbyterian Church of East Africa, Kenya, 2006
- Financial management and human resource management for Chairmen of Departments of University of Nairobi, 2nd to 4th February, 2006
- Chief Internal Examiners Training, University of Nairobi, 13th & 14th July, 2006
- Scientific Proposal Writing, University of Nairobi, 19th & 25th November, 2006
- Occupational safety (Ministry of labour and human resource management) 2007
- Performance enhancement strategies, University of Nairobi, 31st January 2009
- PhD Training Supervision, University of Nairobi, March 4, 2010

8. EMPLOYMENT RECORD

- June 2013 to date - Professor of Veterinary Parasitology, University of Nairobi
- 2006 to 2013 - Associate Professor, University of Nairobi

- 1998 – 2006: - Senior Lecturer in Vet. Parasitology, University of Nairobi
- 1989 – 1998: - Lecturer in Veterinary Parasitology, University of Nairobi.
- 1984 – 1989: - Assistant Lecturer in Vet. Parasitology, University of Nairobi

9. RESULTS OF STAFF PERFORMANCE APPRAISAL 2004 – 2019

YEAR	RESULTS
2021/2022	Excelent
2020/2021	Outstanding
2019/2020	Outstanding
2018/2019	Outstanding
2017/2018	Outstanding
2016/2017	Outstanding
2015/2016	Outstanding
2014/2015	Outstanding
2013/2014	Outstanding
2012/2013	Outstanding
2011/2012	Outstanding
2010/2011	Outstanding
2009/2010	Exceeding expectation
2008/2009	Exceeding expectation
2007/2008	Exceeding expectation and can be enhanced to outstanding
2006/2007	Appraisal done but results not released
2005/2006	Good but there is room for improvement
2004/2005	Good but there is room for improvement

10. SUMMARY OF POST-GRADUATE AND UNDER-GRADUATE STUDENTS' SUPERVISION (For details please refer to page 8 to 11)

Programme	Completed	Ongoing
PhD	9	4
MSc	11	0
Undergraduate projects	11	3

11. SUMMARY OF LIST OF SCIENTIFIC PUBLICATIONS AND CONFERENCE PAPERS (For details please refer to page 12 to 28)

1. Two book chapters
2. One Hundred and three (103) full-length papers in refereed scientific journals.
3. Four (4) full-length papers in refereed scientific proceedings.
4. Thirty (30) abstracted papers presented in scientific conferences.
5. Twenty three (23) abstracted papers presented in seminars and workshops.

12. RESEARCH GRANTS AND SCHOLARSHIPS HELD:

Grants:

1. Co-investigator in a Feed the Future Animal Health Innovation Lab (AHIL), funded by USAID in Kenya. Total funding US\$ 46, 296. This 5 years project is supporting field research on the epidemiology, social-economics and the development and field testing of innovative tools for diagnosis and control of East Coast Fever in Kenya, including a pen-side test and a vaccine, both of which are based on the next-generation biotechnology (2020-2025).
2. Principal Investigator for a project funded by ASARECA titled "Diagnostic and control tools and strategies for *Taenia solium* cysticercosis in Eastern and Central Africa". Total funding US\$ 521,859, Funding to University of Nairobi, US\$ 120,145
3. Co-investigator in a project funded by RUFORUM titled "Enhancing village chicken productivity through parasite management for effective Newcastle disease vaccination in Kenya" (US\$ 59,993).
- 4.
5. Co-investigator in a project funded by RUFORUM titled "Developing capacity for implementing innovative Peste des Petit Ruminants (PPR) control strategies based on the epidemiology and socio-economic aspects of the disease in the East African region" (US\$ 59,808).
6. Co-investigator in a project funded by the National Council for Science and Technology titled "Novel approaches towards identification of new anthelmintic drugs through bioprospecting" (Kshs. 3,000,000)
7. 2001 – 2002: Post-doctoral Research Fellowship, University of Pretoria (South African Rand 150,000)
8. 2000 – 2003: Co-investigator in a project funded by Rockefeller Foundation and the Agricultural Research Foundation (ARF) to investigate the anthelmintic and trypanocidal activities of extracts from medicinal plants used in Kenya (Kshs. 3,000,000).
9. 1998 – 2000: Principal Investigator for a FAO Technical Co-operation Programme (TCP) funded project to validate helminth control strategies for ruminants in Kenya. (US\$ 117,000)
10. 1994 – 1996: Principal Investigator for a University of Nairobi's Deans' Committee Grant to carry out research on the prevalence on internal parasites in donkeys in Kiambu District, Kenya and the pathological lesions associated with the infections (Ksh. 90,000).
11. 1994 – 1995: Co-investigator in a British Overseas Development Agency (ODA) grant on anthelmintics usage in livestock in Kenya (Ksh. 400,000).
12. 1992 –2004: Ruminant Helminth Research Project Funding (DANIDA) to carry out research on:
13. 1991 – 1992: Principal Investigator for a University of Nairobi's Deans' Committee

Grant on the prevalence of anthelmintic resistance in nematodes of sheep and goats in Kenya (Ksh. 70,000).

14. 1986 – 1989: Canadian International Development Agency (CIDA) scholarship, to pursue a Master of Science degree at McGill University in Canada.

13. MANAGEMENT ROLES PLAYED AND COMMITTEE MEMBERSHIP AT THE UNIVERSITY OF NAIROBI:

- (a) 2017 to 2021: Dean, Faculty of Veterinary Medicine, University of Nairobi
- (b) 2017 to date, Member of the Senate, College Management and College Academic Board.
- (c) 2004 to 2010: Served as the Substantive Chairman, Department of Veterinary Pathology, Microbiology and Parasitology.
- (d) 2001 to 2004: Served on several occasions as Acting Chairman, Department of Veterinary Pathology, Microbiology and Parasitology.
- (a) On several occasions, served as Acting Dean, Faculty of Veterinary Medicine, with an official appointment on April 22nd to 24th 2009.
- (b) On several occasions from 2009 to date, served as Acting Principal, College of Agriculture and Veterinary Sciences,
- (c) 2006 to 2010: Served as member of the Faculty of Veterinary Medicine Farm Management Committee.
- (d) 2004 to 2010: Served as Member of the Department of Veterinary Pathology, Microbiology and Parasitology, Income Generating Units Committee.
- (e) 2004 to 2010: Served as Member of the College of Agriculture and Veterinary Sciences Management Board.
- (f) 2004 to 2010: Served as Member of the University of Nairobi senate.
- (g) In April 2005 served in the UNITID curriculum development team.
- (h) 2008 served as Member of the College of Agriculture and Veterinary Sciences awards committee.
- (i) 2004 to date: Served as Member of the Department of Veterinary Pathology, Microbiology and Parasitology, Strategic Plan Committee.

14. LEADERSHIP IN RESEARCH PROJECTS:

- (a) 2009 to 2010: Project leader for ASARECA funded project titled “Diagnostic and control tools and strategies for *Taenia solium* cysticercosis”, involving the University of Nairobi, ILRI, Nairobi, Makerere University, Sokoine University, University of Antananarivo, Madagascar and Central Vet. Labs, in Burundi and DR Congo.
- (b) 2001 and 2002: Successfully led and managed a research project as a Postdoctoral Research Fellow at the University of Pretoria in South Africa. The project evaluated the effectiveness of integrated management interventions for gastrointestinal nematodes in goats. The interventions were use of the nematode- trapping fungi *Duddingtonia flagrans*, as a biological control agent and selective anthelmintic treatments based on the FAMACHA anemia system guide.

- (c) 1998 to 2000: National Coordinator for a Food and Agricultural Organization (FAO) funded project on validation of helminth control strategies for ruminants in mixed farming systems in Kenya and extension of findings to farmers.
- (d) 1997 – 2004: Served as the Local Responsible Person for a DANIDA-funded North-South and South-South collaborative project [Livestock Helminth Research Project (LHRP)] at the University of Nairobi, Kenya. Other institutions involved were The Royal Veterinary and Agricultural University, Denmark, Sokoine University of Agriculture, Tanzania, University of Zambia and University of Zimbabwe, Zimbabwe.

15. PRODUCTION, EXTENSION AND OUTREACH

- (a) In 2000 carried out two weeks training on helminth control strategies for livestock farmers in Nyandarua, Nakuru, Thika and Kajiado districts. Training funded by FAO.
- (b) In 2007, wrote an article in the Farmer's Journal of July/August 2007, Published by BIZNET COMMUNICATIONS, titled "Factors affecting effective control of roundworms in sheep and goats in Kenya, using anthelmintics".
- (c) The following outputs have been generated under the ASARECA-funded project on *Taenia solium* cysticercosis for which I am PI :
 - (i) 2010: Training of 566 pig farmers and other stakeholders on the diagnosis, prevention and control of *Taenia solium* cysticercosis/taeniosis in Homa bay District, Kenya from 12th to 14th October 2010 under the auspices of the ASARECA project on Diagnostic Tools and Strategies for *Taenia solium*.
 - (ii) 2010: A training manual on *Taenia solium* cysticercosis has been prepared and was used in the field training in Homa bay District.
 - (iii) 2011: A "pen-side" field diagnosis test for *Taenia solium* infections in pigs has been developed. This was done in collaboration with ILRI by adapting an Ag-ELISA to a lateral flow system. Training on the use of the test for scientists, meat inspectors and other stakeholders from participating countries (Kenya, Uganda, Tanzania, DR Congo and Burundi) was done in a one day workshop at ILRI on Wednesday 21st September 2011.
- (e) In 2011, participated (as member of the organizing committee and presenter) in a Continuing Professional Development (CPD) workshop on Trends in Veterinary Parasitology for veterinarians and other stakeholders in the Department of Veterinary Pathology Microbiology & Parasitology, University of Nairobi. Presented a paper titled "Worm control in grazing livestock and anthelmintic resistance".
- (f) In 2011 and 2012, together with others, wrote Open and Distance Learning (ODL) notes for the course AAS 204: Parasitology for the BSc in Agricultural Education and Extension, degree programme in the Faculty of Agriculture.
- (g) In December 2013, together with others, participated in a one day farmers training workshop on enhancement of poultry productivity in village poultry through control of

parasites and vaccination against Newcastle disease at Mutuobare, Embu, under the auspices of a Ruforum funded research project.

16. OTHERS ROLES PLAYED:

- a) 2018 to 2021: General Secretary of the African Association of Veterinary Education Establishments (2A2EV)
- b) 2017 to 2021: Member of the Board of Directors and Chairman of the Finance and Administration Committee, Kenya Veterinary Board.
- c) 2013; External Assessor for research publications from the University of Zimbabwe, Zimbabwe for Associate Professor Position in Veterinary Clinical Studies
- d) 2006 – 2009: External Examiner in Veterinary Parasitology for Bachelor of Veterinary Medicine students at Makerere University's Faculty of Veterinary Medicine, Uganda.
- e) 2007: External Assessor for applicants' publication for promotion to the post of Associate Professor, University of Zambia, Lusaka, Zambia.
- f) 2012: External Assessor for applicants' publication for promotion to the post of Associate Professor, Federal University of Agriculture, Ogun State, Nigeria.
- g) 2007 to 2001, Coordinator in Kenya and member of the Technical Advisory Group (TAG) for the Cysticercosis Working Group in Eastern and Southern Africa.
- h) On several occasions between 2004 to 2010, served as internal moderator for examinations in the following departments of the University of Nairobi:
 - (i) Department of Clinical Studies
 - (ii) Department of Public Health Pharmacology & Toxicology
- i) In 2014, was External Assessor for research publications from the University of Zimbabwe, Zimbabwe for Associate Professor Position in Veterinary Clinical Studies
- j) Has refereed manuscripts submitted for publication to:
 - (i) Bulletin of Animal Health and Production in Africa.
 - (ii) The Kenya Veterinarian Journal
 - (iii) Veterinary Research Journal
 - (iv) Journal of the South African Veterinary Association
 - (v) Onderstepoort Journal of Veterinary Research
 - (vi) The East & Central African Journal of Pharmaceutical Sciences
 - (vii) International Greener Journals
- k) Has examined the following number of postgraduate thesis

Has examined over 50 MSc and PhD thesis either as an External or Internal Examiner,

Member or Chairman (Dean of Faculty) of the Board of Examiners.

17. DETAILS SUPPORTING CV WITH LIST OF POSTGRADUATE STUDENTS SUPERVISED

(a) Completed PhD Theses Projects

1. Samuel Maina Githigia - **PhD awarded 2000, University of Nairobi.**
Thesis title: "Epidemiology and control of gastrointestinal nematodes in small ruminants in Kenya and in Denmark".
Supervisors: Prof. W.K. Munyua, Prof. P.Nansen, Prof. S.M. Thamsborg and **Dr. N. Maingi**
2. James Chege Nganga - **PhD awarded 2003, University of Nairobi.**
Thesis title: "Epidemiology and control of gastrointestinal nematodes of sheep in a semi-arid area of Kajiado District, Kenya".
Supervisors: Prof. W.K. Munyua, Prof. P.W.N. Kanyari and **Dr. N. Maingi**
3. John Maina Kagira - **PhD awarded 2009, University of Nairobi.**
Thesis title: "Characteristics of pig production systems and trade, epidemiology and control of parasites on pig farms in Busia District, Kenya".
Supervisors: Prof. P.W.N. Kanyari, **Prof. N. Maingi**, Dr. S. M. Githigia and Dr. J. C. Nganga
4. George Owour Matete - **PhD awarded 2010, University of Nairobi**
Thesis title: "An assessment of opportunities and constraints of enhanced animal identification, traceability and quality verification in the beef production systems in Kenya".
Supervisors: Dr. G.M. Muchemi, **Prof. N. Maingi**, Prof. J.M. Gathuma and Dr. W.O. Ogara
5. Francis M. Gakuya - **PhD awarded 2011, University of Nairobi**
Thesis title: "The Epidemiology and species characterisation of mange in cheetahs, Thomson's gazelles and domestic animals in the wildlife livestock inter phase in Samburu and Maasai Mara National reserves"
Supervisors: Prof. J. Ombui, **Prof. N. Maingi**, Dr. G.M. Muchemi and Dr. W. Ogara
6. Vincent Onyango Obanda – **PhD awarded 2017, University of Nairobi**
Thesis title: "Effects of habitat overlap on parasite transmission between sympatric primate and ungulate host species in Amboseli ecosystem"
Supervisors: **Prof. N. Maingi**, Dr. G.M. Muchemi, Dr. J.N. Chege & Prof. E. Archie
7. Sherry Mwavuko Johnson: **PhD awarded 2017, University of Nairobi**
Thesis title: The prevalence, clinical manifestations, anthelmintic efficacy and management of helminth infections in dogs in Ghana and Kenya
Supervisors: Dr. Daniel Gakuya, Prof. P.G. Mbutia, Prof. N. Maingi, Dr. J.D. Mande
8. Shepelo, Getrude Peter: **PhD awarded 2020, University of Nairobi**
Project title: Prevalence and risk factors for *Ehrlichia ruminantium* infections in cattle in Nairobi and its environs.
Supervisors: Dr. Daniel Gakuya, **Prof. N. Maingi**, Dr. O. Aboge, Prof. C.M. Mulei

9. Richard, Gashururu Simba: **PhD awarded 2022, University of Nairobi**
PhD candidate in Applied Veterinary Parasitology, University of Nairobi
Project title: Epidemiology of trypanosomosis in cattle at the wildlife-livestock interface of the Akagera National Park, Rwanda
Supervisors: Prof. N. Maingi, Prof. S.M. Githigia, Dr. D. Masiga, Dr. J.K. Gashumba

(b) Ongoing Ph.D Theses Projects

1. Linda Gatwiri Mutwiri: **Registration in 2015**
PhD candidate in Applied Veterinary Parasitology, University of Nairobi
Project title: Effects of host movement patterns on the helminth infections in zebras of Maasai Mara National reserve and Lake Nakuru National Park, Kenya
Supervisors: Prof. N. Maingi, Dr. R.M. Waruiru, Dr. J.C. Ng'ang'a
2. Orenge, James Otieno: **Registered in 2017**
Project title: Anthelmintic activity, phytochemistry and toxicity of selected medicinal plants on mixed gastrointestinal worms in dogs.
Supervisors: Prof. J.M. Mbaria, Prof. N. Maingi, Dr. J.A. Kitaa
3. Fredrick, Ojiambo Obonyo: Registered in 2019
Project title: Epidemiology and molecular characterization of *Toxoplasma gondii* in donkeys from selected counties in Kenya.
Supervisors: Prof. N. Maingi, Prof. S.M. Githigia, Dr. E.N. Nyaboga
4. Robert Mugambi Muriuki, Provisional Registration in 2021
Project title:, Development of crispr-based diagnostic tools for *Theileria parva* infections in cattle.
Supervisors: Prof. N. Maingi, Prof. S.M. Githigia, Dr. Nicholas Svitek

(a) Completed MSc Theses Projects

1. J.M. Kithuka - **MSc awarded 2002, University of Nairobi.**
Thesis title: "Prevalence and economic importance of fasciolosis in cattle, sheep and goats in Kenya. An analysis of abattoir data"
Supervisors: Prof. F.M. Njeruh, Dr. N. Maingi and Dr. J.N. Ombui
2. Sharon Okanga - **MSc awarded 2005, University of Nairobi.**
Thesis title: "The patterns of gastrointestinal parasitic infections in the Angolan black and white Colobus monkey (*Colobus angolensis palliatus*) in Southern Kenya in relation to age, sex and habitat interference".
Supervisors: Dr. N. Maingi, Dr. G.M. Muchemi, and Dr. E. Mogo
3. Sabuni, Alex Zephania - **MSc awarded 2009, University of Nairobi**

Thesis title: "Prevalence of ecto and blood parasites in the local scavenging chickens in central Kenya".

Supervisors: Dr. P.G. Mbutia, **Prof. N. Maingi** and Prof. P.N. Nyaga

4. Fredrick Othiambo Obonyo - **MSc Awarded 2011, University of Nairobi**
Thesis title: "Prevalence of gastrointestinal nematodes in free-range pigs in Homa Bay District, Kenya".
Supervisors: **Prof. N. Maingi**, Dr. S.M. Githigia and Dr. J.C. Nganga
5. Waweru Muigai Kabaka, **MSc awarded 2011, University of Nairobi.**
Thesis title: "Prevalence and risk factors for gastrointestinal nematode infections and efficacies of anthelmintics in cattle in Mukurwe-ini and Nakuru districts of Kenya".
Supervisors: Dr. P.N. Kitale, Prof. G.K. Gitau, **Prof. N. Maingi**, Prof. J. Vanleuween
6. Charity Warigia Hungu - **MSc awarded 2011, University of Nairobi.**
Thesis title: "Farm characteristics, management practices, production constraints and diseases in the domestic rabbits (*Oryctolagus cuniculus*) in Nairobi and its environs".
Supervisors: Prof. P.K. Gathumbi, **Prof. N. Maingi** and Dr. J.C. Nganga
7. Erik Emali Eshitera – **MSc awarded 2011, University of Nairobi:**
Thesis title: "Prevalence and risk factors for *Taenia solium* cysticercosis in Homa Bay District, Kenya"
Supervisors: Dr. P.N. Kitale, **Prof. N. Maingi** and Dr. S. M. Githigia
8. Michael Makau Kyalo– **MSc awarded 2012, University of Nairobi.**
Thesis title: "Prevalence, intensity and lesions associated with helminth infections in indigenous chicken in Kenya".
Supervisors: **Prof. N. Maingi**, Dr. P.G. Mbutia, and Prof. P.N. Nyaga
9. Linda G. Mutwiri – **MSc awarded 2013, University of Nairobi.**
Thesis title: "Prevalence and intensity of infection with gastrointestinal parasites in Thomson's gazelles in Marura Ranch, Kenya".
Supervisors: **Prof. N. Maingi**, Prof. W.O. Ogara and Prof. P.M.F. Mbithi
10. Thuo, Boniface Mburu– **MSc awarded 2013, University of Nairobi.**
Thesis title: "In vitro anthelmintic activity of *Albizia gummifera*, *Crotalaria axillaries*, *Manilkara discolor*, *Teclea trichocarpa* and *Zanthoxylum usambarense* extract".
Supervisors: Prof. G.N. Thoithi, **Prof. N. Maingi** and Dr. S. Ndwiga
11. Hannah Wambui Chege – **MSc awarded 2013, University of Nairobi**
Thesis title: Seasonal variations in ecto and endo parasites and efficacies of anti-parasitic drugs used in Mbeere District, Kenya
Supervisors: Prof. L.C. Bebora, **Prof. N. Maingi** and Prof. P.G. Mbutia

18. DETAILS SUPPORTING CV WITH LIST OF PUBLICATIONS AND

CONFERENCE PAPERS

LIST OF PUBLICATIONS

(a) Theses

1. Maingi, N. (1989). The association between biological characteristics and thiabendazole resistance in *Haemonchus contortus*. MSc Thesis: McGill University, Montreal, Canada.
2. Maingi, N. (1996). Anthelmintic resistance, epidemiology and control of gastrointestinal nematodes of small ruminants in Nyandarua District of Kenya and in Denmark. Ph.D Thesis: University of Nairobi, Nairobi, Kenya.

(b) Book Chapters

1. Helena A. Ngowi, Samson Mukaratirwa, Faustin P. Lekule, Ndichu Maingi, Charles Waiswa, Chummy Sikasunge, Sonia Afonso, Julienne Sumbu, Sylvia Ramiandrasoa, Marry Louise Penrith and Arve Lee Willingham (2013): Agricultural Impact of Porcine Cysticercosis in Africa: A Review. In Novel Aspects on Cysticercosis and Neurocysticercosis. Edited by Humberto Foyaka Sibat. Intech, Janeza Trdine Rijeka, Croatia
2. Kagira J.M., Kanyari, P.N., Githigia, S.M., Chege, N. and **Maingi, N.** (2014). Efficacy of neen and pawpaw products against Oesophagostomum species infection in pigs in Anthelmintics: Clinical Pharmacology, Use in Veterinary Medicine and Efficacy. Edited by William Quick. Published by Nova Scientific Publishers, Inc. New York. ISBN: 978-1-63117-714-9

(c) Publications in Refereed Scientific Journals


1. Orengo, KO, Maitho, T. Mbaria, JM, Maingi, N and Kitaa JM (2022). Preliminary Phytochemical Composition and *In Vitro* Anthelmintic Activity of Aqueous and Ethanol Extracts of *Olea africana* against Mixed Gastrointestinal Worms in Dogs. Hindawi Evidence-Based Complementary and Alternative Medicine Volume 2022, Article ID 5224527, 8 pages <https://doi.org/10.1155/2022/5224527>
2. Maina, L.G.M., Maingi, N., Ng'ang'a, C.J., Waruiru, R.M. and Gakuya, F (2022). Diversity, prevalence, and intensity of gastrointestinal helminth infections in migratory, resident, and sedentary plains zebras (*Equus quagga*) in Masai Mara National Reserve and Lake Nakuru National Park, Kenya. Veterinary Parasitology: Regional Studies and Reports 33 (2022) 100750
3. Obonyo FO, Maingi N, Githigia SM, Kimeli P, Nyaboga EN (2022). Occurrence of serum antibodies to *Toxoplasma gondii* and associated risk factors in donkeys from central Kenya. Trop Anim Health Prod. 2022 Jan 25;54(1):77. doi: 10.1007/s11250-022-03079-w. PMID: 35076783.


4. Gashururu S R, Maingi N, Githigia SM, Gasana MN, Odhiambo PO, Getange DO, Habimana R, Cecchi G, Zhao W, Gashumba J, Bargul JL, Masiga DK (2021). Occurrence, diversity and distribution of Trypanosoma infections in cattle around the Akagera National Park, Rwanda. *PLoS Negl Trop Dis*. 2021 Dec 15;15(12):e0009929. doi: 10.1371/journal.pntd.0009929. PMID: 34910728; PMCID: PMC8726506.
5. Gashururu, RS, Githigia, SM, Gasane, MN, Habiman, R, Maingi, N, Cecchi, G, Pacone, M, Zhao, W, Masiga, DK and Gashumba, J (2021). An update on the distribution of Glossina(tsetse flies) at the wildlife-human-livestock interface of Akagera National Park, Rwanda. *Parasites and Vectors* 14:294,
6. Peter, Shepelo Getrude, Gabriel Aboge, Hellen Wambui Kariuki, Esther Kanduma, Daniel Waweru Gakuya, Ndichu Maingi, and Charles Matiku Mulei (2020). Molecular prevalence of emerging Anaplasma and Ehrlichia pathogens in apparently healthy dairy cattle in peri-urban Nairobi, Kenya. October 2020 *BMC Veterinary Research* 16(1). DOI: 10.1186/s12917-020-02584-0
7. Peter, Shepelo Getrude, Daniel Waweru Gakuya, Ndichu Maingi, and Charles Matiku Mulei. (2019). “Prevalence and Risk Factors Associated with Ehrlichia Infections in Smallholder Dairy Cattle in Nairobi City County, Kenya.” *Veterinary World* 12(10): 1599–1607.
8. Obanda, V., Maingi, N., Muchemi, G., Ng’ang’a, J.C., Samer Angelone and Elizbaeth A. Arche (2019). Infection Dynamics of Gastrointestinal Helminths in Sympatric Non-Human Primates, Livestock and Wild Ruminants in Kenya.. *PLOS ONE*.
9. Johnson, SAM, Gakuya, DW, Mbuthia, PG, Mande, JD, Afakye, K and Maingi, N. (2016). Myiasis in Dogs in the Greater Accra Region of Ghana. *Vector-Borne and Zoonotic Diseases* 16 (1), 54-57
10. Impact of gastrointestinal helminths on production in goats in Kenya (2001). SM Githigia, SM Thamsborg, WK Munyua, N Maingi. *Small Ruminant Research* 42 (1), 21-29
11. Risk factors associated with occurrence of nematodes in free range pigs in Busia District, Kenya (2012). JM Kagira, PN Kanyari, SM Githigia, N Maingi, JC Ng’ang’a, JM Gachohi. *Tropical Animal Health and Production* 44 (3), 657-664
12. Orengo, KO, Maitho, T. Mbaria, JM, Maingi, N and Kitaa JM (2016). In vitro anthelmintic activity of Allium sativum, Allium cepa and Jatropha curcas against Toxocara canis and Ancylostoma caninum. *African Journal of Pharmacy and Pharmacology* 10 (21), 465-471
13. KOA Orengo, TB Maitho, JM Mbaria, NC Maingi, JMD Kitaa (2016) In-vivo anthelmintic activity of the ethanol extract of Allium cepa (onion) against mixed gastro intestinal helminth infestations in dogs. *International Journal of Veterinary Science* 5 (3), 171-175
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(d) Abstracted Papers Presented In Scientific Conferences

1. Kemboi, D.C., H.W. Chege, L.C. Bebora, N. Maingi, P.N. Nyaga, P.G. Mbutia, L.W. Njagi and J.M. Githinji (2013). Effect of parasite control on immune response to Newcastle disease vaccination in village chicken, Mbeere District. Paper presented at the 4th Annual Scientific Conference of the Kenya Veterinary Association held on 24th – 26th August 2013 at the Whitesands hotel, Mombasa, Kenya
2. Chege, H.W., D.C. Kemboi, L.C. Bebora, N. Maingi, P.N. Nyaga, P.G. Mbutia, L.W. Njagi and J.M. Githinji (2013). Efficacy of piperazine citrate, levamisole HCL and albendazole in the treatment of chickens naturally infected with gastrointestinal helminths. Paper presented at the 4th Annual Scientific Conference of the Kenya Veterinary Association held on 24th – 26th August 2013 at the White sands hotel, Mombasa, Kenya
3. Chege, H.W., D.C. Kemboi, L.C. Bebora, N. Maingi, P.N. Nyaga, P.G. Mbutia, L.W. Njagi and J.M. Githinji (2013). Ecto and endo parasites in free-range chickens in the rainy season in Mbeere District, Kenya. Paper presented at the WAAVP Scientific Conference on 27th August 2013 in Perth, Western Australia by Dr. Chege.
4. Kyalo, M.M., Mbutia, P.G. Maingi, N., Nyaga, P.N., Njagi, L.W., Mutune, M.N., Otieno, R.O., Gachoka, J.M. Musofe, P.L.N. and Bunn, D. (2012). Occurrence and lesions associated with *Echinostoma revolutum* in free-range chickens in Kenya. Proceedings of the Faculty of Veterinary Medicine, CAVS Biannual Conference and 46th KVA Annual Scientific Conference and 12th World Veterinary Day. 25th to 27th April 2012. Abstract No. 027 page 25-26
5. Eshitera E.E.; Maingi N.; Kitala P.; Githigia S.M. Otieno R. (2010). Prevalence of Porcine Cysticercosis and Risk Factors for *Taenia solium* cysticercosis in Homa Bay District, Kenya. Faculty of Veterinary Medicine Biennial Conference September 2010
6. Sabuni, Z.A., Mbutia, P.G., **Maingi, N.**, Nyaga, P.N., Njagi, L.W., Bebora, L.C. and Michieka, J.N. (2008). Prevalence of ectoparasites in indigenous chickens in two agro-

ecological zones, Eastern Province, Kenya. *Proceedings of the Kenya Veterinary Association Scientific Conference. 23rd to 25th April 2008, Kenya.*

7. Sabuni, Z.A., Mbuthia, P.G., **Maingi, N.**, Nyaga, P.N., Njagi, L.W., Bebora, L.C. and Michieka, J.N. (2008). Prevalence of hemoparasite infections in indigenous chickens in Eastern Province, Kenya. *Proceedings of the Kenya Veterinary Association Scientific Conference. 23rd to 25th April 2008, Kenya.*
8. Gichohi, C.M., Mbuthia, P.G., Waruiru, R.M., Ngatia, T.A., **Maingi, N.**, Weda, E.H. and Otieno, R. (2006). Preliminary study of the prevalence of helminthes and their associated pathological lesions in four fish species from river Tana. Faculty of Veterinary Medicine Biennial Scientific Conference. 6- 8th September 2006.
9. Muchemi, G.M., **Maingi, N.**, Otieno, R.O., Mkoji. G.M. and Mungai, B. (2006). Zoonotic helminth parasites recovered from dogs in Kisumu and their public health importance. Faculty of Veterinary Medicine Biennial Conference. 6- 8th Sep. 2006.
10. Maingi, N. (2006). Control of gastrointestinal nematodes in grazing livestock and anthelmintic resistance. Faculty of Veterinary Medicine Biennial Scientific Conference. 6- 8th September 2006.
7. Nganga, C.J., **Maingi, N.**, Kanyari, P.W. and Munyua, W.K. (2004). Epidemiology and control of gastrointestinal nematodes in Dorper lambs in a semi-arid area of Kajiado District of Kenya. Faculty of Veterinary Medicine Biennial Scientific Conference. November 2004
8. Maingi, N. (2003). Gastrointestinal nematodes in sheep on communal grazing land in Nyandarua District in Central Kenya. 18th International Conference of the World Association for the Advancement of Veterinary Parasitology (WAAVP) held in New Orleans, USA, 14 - 16 August 2003.
9. Gathumbi, P.K., Thoithi, G.N., Mwangi, J.W., Kibwage, I.O., Maingi, N., Pelle, R. and Wando, J. (2003). Evaluation of effects of plant extracts on Trypanosomes. End of ARF Project Conference held on 2nd -4th December 2003 at KARI Headquarters, Nairobi, Kenya.
10. Maingi, N., Otieno, R.O. Weda, E.H. and Gichohi, V.M. (2001). Effectiveness of wet season deworming in controlling gastrointestinal nematodes in sheep in the highlands of Kenya. 10th International Conference of Associations of Institutions of Tropical Veterinary Medicine held in Copenhagen, Denmark in September 2001.
11. Githigia, S.M., Willingham, A.L. and **Maingi, N.** (2001). Cysticercosis in Kenya. 10th International Conference of Associations of Institutions of Tropical Veterinary Medicine held in Copenhagen, Denmark in September 2001.
12. Maingi, N., Otieno, R.O. Weda, E.H. and Gichohi, V.M. (2001). Control of *Fasciola* and gastrointestinal nematodes in sheep in the highlands of Kenya. 17th International

Conference of the World Association for the Advancement of Veterinary Parasitology (WAAVP) held in Stresa, Italy, September 2001

13. Thoithi, G.N., **Maingi, N.**, Gathumbi, P.K., Mwangi, J.W. and Kibwage, I.O. (2001). The anthelmintic activity of extracts from some medicinal plants of Kenya. 9th Symposium of the Natural Product Research Network for Eastern and Central Africa (NAPRECA). Nairobi, Kenya, 27 - 31 August 2001.
14. Maingi, N. and Gichigi, M. N. (1999). The prevalence and economic importance of *Fasciola* and other helminth in cattle and sheep in Nyandarua District of Kenya. 16th International Conference of the World Association for the Advancement of Veterinary Parasitology (WAAVP) held in Copenhagen, Denmark, August 1999
15. Lewa, A.K., Munyua, W.K., Ngatia, T.A. and **Maingi, N.** (1998). The common internal parasites encountered in donkeys in Kiambu District and the pathological lesions associated with them. *Proceedings of the Kenya Veterinary Association Scientific Conference. April, 1998, Embu Kenya.*
16. Bjørn, H., **Maingi, N.** and Thamsborg, S.M. (1996). Anthelmintic resistance in nematode parasites of sheep and goats in Denmark. 24th Inter Norden Sheep Conference. Aarhus, Denmark. 27-28th June 1996.
17. **Maingi, N.** (1995). Epidemiology and control of gastrointestinal nematodes in small ruminants in Kenya. Presented during the 6th Annual Workshop on Tropical Animal Health and Production, University of Utrecht, Utrecht, The Netherlands. 6th October 1995.
18. Bjørn, H., **Maingi, N.** and Thamsborg, S.M. (1995). A survey of anthelmintic resistance in sheep and goats in Denmark. Proceedings of the Scandinavian meeting of the Sheep Veterinary Society, Sandes, Norway, 6-10 Sep. 1995.
19. **Maingi, N.**, Thamsborg, S.M., Gichohi, V.M., Munyua, W.K., Gathuma, J.M. and Nansen, P. (1995). Effectiveness of the strategic use of closantel and albendazole in controlling gastrointestinal nematodes of sheep in Kenya. 15th International Conference of the WAAVP held in Yokohama, Japan, 30th August - 2nd September 1995.
20. **Maingi, N.** (1995). Epidemiology and Control of Gastrointestinal Nematodes of Ruminants in the Tropics. Food and Agricultural Organization (FAO) Regional Workshop, Sokoine University of Agriculture, Morogoro, Tanzania, 7 - 18, August 1995.
21. Maingi, N., Bjørn, H., Thamsborg, S.M. and Nansen, P. (1994). Worm control practices on sheep farms in Denmark. 8th International Congress of Parasitology (ICOPA), Izmir, Turkey, 10-14 October 1994.
22. **Maingi, N.** (1994). Developing genetic resistance to internal parasites (helminths) in goats and cattle in Kenya. Presented at a Teleconference on Biotechnology and Agriculture at the University of Nairobi, CEES, Kikuyu Campus on 11th April 1994.

23. **Maingi, N.** (1993). The problem of Anthelmintic Resistance in East Africa: An update. Presented at a workshop on Anthelmintic Resistance held during the 14th Conference of the World Association for the Advancement of Veterinary Parasitology (WAAVP) in Cambridge, United Kingdom, 9-13 August 1993.
24. Maingi, N., Munyua, W.K. and Gichohi, V.M. (1993). Prevalence and levels of infection with gastrointestinal helminths of sheep in Nyandarua District of Kenya. 14th International Conference of the World Association for the Advancement of Veterinary Parasitology (WAAVP) held in Cambridge, UK, 9-13 August 1993.
25. Waruiru, R.M., **Maingi, N.** and Gichanga, E.J. (1990). Prevalence of anthelmintic resistance in sheep in three districts of Kenya. *Proceedings of the Annual Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, Kenya, 19-21 September 1990.*
26. Maingi, N. (1990). Variations in LC50 in the *in-vitro* egg hatch assay for anthelmintic resistant trichostrongylid nematode parasites in sheep. *Proceedings of the Annual Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, Nairobi, Kenya, 19-21 Sept. 1990.*
27. **Maingi, N.,** Scott, M.E. and Prichard, R.K. (1989). Effect of anthelmintic resistance on fitness characteristics in *Haemonchus contortus*. *13th. Conference of the World Association for the Advancement of Veterinary Parasitology (WAAVP), Berlin, 7-11th August 1989.*
28. Scott, M.E., **Maingi, N.** and Prichard, R.K. (1989). Moderate anthelmintic resistance reduces general fitness, but further anthelmintic selection improves fitness in *Haemonchus contortus*. Meeting of the American Association of Veterinary Parasitology, Orlando, Florida, USA, 16-18th July 1989.
29. Scott, M.E., **Maingi, N.** and Prichard, R.K. (1989). An interesting picture of anthelmintic resistance and fitness in *Haemonchus contortus*. Meeting of the Canadian Society of Zoologists, North York, Ontario, Canada, 20th May 1989.
30. Maingi, N. and Scott, M.E. (1988). The association between biological characteristics in *Haemonchus contortus* and thiabendazole resistance. Meeting of the Canadian Society of Zoologists, Halifax, Nova Scotia, Canada, 16-19th May 1988.

(e) Abstracted Papers Presented at Scientific Seminars and Workshops

1. Kemboi, D.C., H.W. Chege, L.C. Bebora, **N. Maingi,** P.N. Nyaga, P.G. Mbutia, L.W. Njagi and J.M. Githinji (2012). Seasonal Newcastle disease antibody titres in village of Mbeere District, Eastern Province, Kenya. Seminar paper presented at the 3rd Biennial RUFORUM seminar, Entebbe Uganda, Sept 2012
2. Chege, H.W., D.C. Kemboi, L.C. Bebora, **N. Maingi,** P.G. Mbutia, P.N. Nyaga, L.W. Njagi and J.M. Githinji (2012). Prevalence of ecto and endo parasites in free-range

chickens in Mbeere District, Eastern Province, Kenya. Seminar paper presented at the 3rd Biennial RUFORUM seminar, Entebbe Uganda, Sept 2012

3. Maingi, N. (2011). Worm control in grazing livestock and anthelmintic resistance. Continuing Professional Development (CPD) workshop on Trends in Veterinary Parasitology University of Nairobi. August 10th and 11th, 2011.
4. Kihu, S.M., Gitao, C.G., Bebora, L.C., Njenga, J.M., Wairire, G.G., Karimuribo, E., Wahome, R.G and Maingi, N. (2010). Risk factors and socio-economic effects associated with spread of Peste des petits ruminants in Turkana District, Kenya. 2nd Biennial Ruforum meeting. Kampala Uganda.
5. Bebora, L.C., Maingi, N., Nyaga, P.N., Mbuthia, P.G., Gor, C.O, Njagi, L.W. and Githinj, J.M (2010). Enhancing village chicken productivity through parasite management for effective Newcastle disease vaccination in Kenya. 2nd Biennial Ruforum meeting. Kampala Uganda.
6. Maingi N. (2008). *Taenia solium* cysticercosis in Kenya. Proceedings of the Cysticercosis Working Group in Eastern and Southern Africa (CWGESA) meeting. August 2008, Kampala Uganda.
7. Maingi N. (2007). An update on *Taenia solium* cysticercosis in Kenya. Proceedings of the Cysticercosis Working Group in Eastern and Southern Africa (CWGESA) meeting. August 2007, Maputo Mozambique.
8. Maingi, N. (2003). Gastrointestinal nematode infections in sheep on communal grazing land in Nyandarua District of Kenya. *Proceedings of the 12th Annual Seminar of the DANIDA-funded Ruminant Helminth Research Project. Morogoro, Tanzania. June 2003.*
9. Maingi, N. and Krecek, R.C. (2002). Research activities under a Post Doctoral Fellowship at the University of Pretoria, South Africa. *Proc. of 11th Annual Seminar of DANIDA-funded Ruminant Helminth Research Project. Zambia. June 2002.*
10. Maingi, N., Weda, E.H., Otieno, R.O and Gichohi, V.M. (2001). Effectiveness of wet season deworming in controlling gastrointestinal nematodes in sheep in the highlands of Kenya. *Proceedings of the 10th Annual Seminar of the DANIDA-funded Ruminant Helminth Research Project. ILRI, Nairobi. May 2001.*
11. Maingi, N. (2001). Integrated sustainable parasite control in ruminants in mixed farming systems in Kenya: A project report. *Proceedings of the 10th Annual Seminar of the DANIDA-funded Ruminant Helminth Research Project. ILRI, Nairobi. May 2001.*
12. Githigia, S.M., Willingham, L. A., **Maingi, N.** and Boa, M.E. (2001). Porcine cysticercosis in Kenya. *Proceedings of the 10th Annual Seminar of the DANIDA-funded Ruminant Helminth Research Project. ILRI, Nairobi. May 2001.*
13. Maingi, N. and Gichigi, M. N. (2000). Repeatability of questionnaire responses on worm

- control practices on sheep farms in Nyandarua District of Kenya. *Proceedings of the 9th Annual Seminar of the DANIDA-funded Ruminant Helminth Research Project. Lusaka, Zambia, May 2000.*
14. Maingi, N. (1999). Evaluation of control strategies for helminth infections in ruminants in Kenya. An update of the FAO funded project at the University of Nairobi. *Proceedings of the 8th Annual Seminar of the DANIDA-funded Ruminant Helminth Research Project. Copenhagen, Denmark, August 1999.*
 15. Maingi, N. and Gichigi, M. N. (1998). Correlation between faecal egg counts and worm burdens in sheep in Nyandarua District of Kenya. *Proc. of the 7th Annual Seminar of the DANIDA-funded Ruminant Helminth Research Project. Arusha, Tanzania. April 1998.*
 16. Maingi, N., Bjørn, H. and Dangolla, A. (1997). Detection of anthelmintic resistance using the faecal egg-count reduction test (FECRT), the egg-hatch assay (EHA) and larval development assay (LDA). *Proceedings of the 6th Annual Seminar of the DANIDA-funded Ruminant Helminth Research Project. ILRI, Nairobi. Jan. 1997.*
 17. Lewa, A.K., Munyua, W.K., Ngatia, T.A., **Maingi, N.** and Weda, E.H. (1997). Dictyocaulosis in Donkeys in Kiambu District of Kenya. *Proceedings of the 6th Annual Seminar of the DANIDA-funded Ruminant Helminth Research Project. ILRI, Nairobi. 1997.*
 18. Maingi, N., Bjørn, H., Thamsborg, S.M., Nansen, P., Munyua, W.K. and Gathuma, J.M. (1995). Gastrointestinal helminth control practices and anthelmintic resistance on sheep farms in Nyandarua District of Kenya. *Pro. of the 4th Annual Seminar of the DANIDA-funded Ruminant Helminth Research Project, Arusha, TZ. 23-27 Jan. 1995.*
 19. Maingi, N., Bjørn, H., Thamsborg, S.M. and Nansen, P. (1994). Use of anthelmintics on goat farms in Denmark and implications for the development of anthelmintic resistance. *Proceedings of the 3rd Annual Seminar of the DANIDA-funded Ruminant Helminth Research Project at the University of Zambia, Lusaka, Zambia. 24-27 January 1994.*
 20. Maingi, N., Munyua, W.K. and Gichohi, V.M. (1993). Epidemiology of gastrointestinal helminths and liver flukes in sheep in Nyandarua District. *Proceedings of the 2nd Annual Seminar of the DANIDA-funded Ruminant Helminth Research Project at the University of Nairobi, Nairobi, Kenya. 18-22 January 1993.*
 21. Maingi, N. and Munyua, W.K. (1993). Prevalence and levels of infection with *Eimeria* species in sheep in Nyandarua District of Kenya. *Proceedings of the 2nd Annual Seminar of the DANIDA-funded Ruminant Helminth Research Project at the University of Nairobi, Nairobi, Kenya. 18-22nd January 1993.*
 22. Ayuya, J.M., **Maingi, N.** and Gichanga, E.J. (1993). Cattle gastrointestinal helminths on some farms in Njabini area of Kinangop Division, Nyandarua District, Kenya. *Proceedings of the 2nd Annual Seminar of the DANIDA-funded Ruminant Helminth Research Project at the University of Nairobi, Nairobi, Kenya. 18-22nd Jan.1993.*

23. Maingi, N. (1991). Gastrointestinal nematodes of goats in Kenya resistant to thiabendazole and levamisole anthelmintics. *Proceedings of the Inaugural Seminar of the DANIDA-funded Ruminant Helminth Research Project at Sokoine University of Agriculture, Morogoro, Tanzania. 9-12 Dec. 1991.*

23 MEMBERSHIP TO PROFESSIONAL ORGANIZATIONS

Member of:

1. University of Nairobi Alumni Association
2. Kenya Veterinary Association
3. World Association for the Advancement of Veterinary Parasitology
4. Commonwealth Veterinary Association.
5. Cysticercosis Working Group in Eastern & Southern Africa

24 COMMUNITY SERVICE

1. Chairperson, Itiema Neighborhood Alliance, Kikuyu
2. Member, Michael Mathini Education Foundation, Kikuyu
3. Has served on several committees dealing with various community affairs.
4. Chairperson, Youth Pacesetter Board. PCEA Kikuyu Township Church
5. Member, Justice Peace and Reconciliation (JPRC) Committee, PCEA Kikuyu Township Church

25 ACADEMIC REFEREES:

1. Professor P.N. Kanyari
Department of Veterinary Pathology, Microbiology & Parasitology
2. Professor C. Mulei
Department of Clinical Studies
3. Professor P.K. Gathumbi
Department of Veterinary Pathology, Microbiology & Parasitology