

Curriculum Vitae

1. NAME AND ADDRESS:

Professor N. Maingi
Department of Veterinary Pathology, Microbiology & Parasitology
Faculty of Veterinary Medicine
University of Nairobi
P.O. Box 29053, 00625 Kangemi, Nairobi, Kenya
Cell No. 0733823711, Email: vetpath@uonbi.ac.ke

2. SCHOOLS ATTENDED AND CERTIFICATES OBTAINED

1966 - 1972: Karai Primary School, Kikuyu, Kiambu District
Certificate of Primary Education (CPE)

1973 -1976: Kirangari High School, Kikuyu, Kiambu District
Kenya Certificate of Secondary Education (KCSE)

1977 - 1978: Njiri's High School, Maragwa, Muranga District
Kenya Advanced Certificate of Secondary Education (KACSE)

3. UNIVERSITY EDUCATION

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

4. ADDITIONAL TRAINING

- Computer packages including word processing, graphics, statistics and Power Point.
- Use of Laboratory Animals in Teaching and Research.
- Practical application of the FAMACHA^R system as a guide to the determination of levels of anemia in sheep and goats infected with *Haemonchus contortus*.
- Methods of disseminating research findings to farmers.

5. AREAS OF SPECIALIZATION

Veterinary Parasitology with a focus on epidemiology, anthelmintic resistance and integrated management interventions for gastrointestinal nematodes of livestock and parasitic zoonosis

6. EMPLOYMENT

2006 to date - Associate Professor of Vet. Parasitology, 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

7. RESPONSIBILITIES AND EXPERIENCE

1. 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.
2. 2000 to 2001 - In collaboration with colleagues in the Faculty of Pharmacy, University of Nairobi, investigated the anthelmintic activities of extracts from some medicinal plants used in Kenya. The Rockefeller Foundation and the Agricultural Research Foundation (ARF) funded the project.
3. 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 included use of the nematode- trapping fungi *Duddingtonia flagrans*, as a biological control agent.
4. 1997 – 2004: Served as the Local Responsible Person for a DANIDA-funded Livestock Helminth Research Project (LHRP) at the University of Nairobi, Kenya.
5. Feb. 2004 to date: Head of Department of Veterinary Pathology, Microbiology and Parasitology, University of Nairobi, Kenya.
6. 2006 – 2009: External Examiner in Veterinary Parasitology for Bachelor of Veterinary Medicine students at Makerere University's Faculty of Veterinary Medicine, Uganda.
7. 2007: External Assessor for applicants' publication for promotion to the post of Associate Professor, University of Zambia, Lusaka, Zambia.

8. RESEARCH FIELDS

- 1986 – 1996: Anthelmintic resistance in gastrointestinal nematodes of small ruminants, with emphasis on prevalence, factors that influence development and spread, methods for detection and strategies for prevention and control.
- 1992 – 2004: Epidemiology and control of gastrointestinal nematodes of small ruminants.
- 1994 – 1996: Internal parasites of donkeys and the pathological lesions associated with the infections.
- 1998 – 2000: Integrated sustainable helminth control strategies for ruminants under mixed farming systems in Kenya.
- 2000 – 2003: Anthelmintic activities of extracts from medicinal plants used in Kenya.
- 2001 – 2002: Integrated management interventions for helminth infections in goats including use of the nematode-trapping fungi *Duddingtonia flagrans*.

- 2002 – 2003: Prevalence and intensity of infection with helminth parasites in Thompson's gazelles in Kenya.
- 2004 – 2005: Gastrointestinal parasite infections in Colobus monkeys (*Colobus angolensis palliatus*) in southern Kenya, in relation to age, sex and habitat interference.
- Current: Diagnostic and control tools and strategies for *Taenia solium* cysticercosis in Eastern and Central Africa. Funded by ASARECA

9. POSTGRADUATE STUDENTS' SUPERVISION

Completed Thesis Projects

1. S.M. Githigia - PhD 2000.
Thesis title: "*Epidemiology and control of gastrointestinal nematodes in small ruminants in Kenya and in Denmark*".
2. J.M. Kithuka - MSc 2002.
Thesis title: "*Prevalence and economic importance of fasciolosis in cattle, sheep and goats in Kenya. An analysis of abattoir data*".
3. C.J. Nganga - PhD 2003.
Thesis title: "*Epidemiology and control of gastrointestinal nematodes of sheep in a semi-arid area of Kajiado District, Kenya*".
4. Sharon Okanga - MSc 2005.
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*".
5. Linda Gatwiri Mutwiri - MSc 2005.
Thesis title: "*Prevalence and intensity of infection with internal parasites in the Thompson's gazelle on Marula Game Ranch in Kenya*".
6. Sabuni Alex Zephania - MSc 2009
Thesis title: "*Prevalence of ecto and blood parasites in the local scavenging chickens in central Kenya*".
7. J.M. Kagira - PhD 2009.
Project title: "*Characteristics of pig production systems and trade, epidemiology and control parasites on pig farms in Busia District, Kenya*".

Ongoing Thesis Projects

1. F.M. Gakuya - PhD Candidate in Veterinary Public Health. Project title: "*The Epidemiology and species characterisation of mange in cheetahs, Thomson's gazelles and domestic animals in the wildlife livestock interphase in Samburu and Masai Mara National reserves*"
2. G.O. Matete - PhD Candidate in Veterinary Public Health. Project title: "*An assessment of*

opportunities and constraints of enhanced animal identification, traceability and quality verification in the beef production systems in Kenya”.

3. Kyalo M. – MSc Candidate in Applied Veterinary Parasitology. Project title: *"Prevalence, intensity and lesions associated with helminth infection in indigenous chicken in Kenya”.*
4. Joel O.M. Nyamweya – MSc Candidate in Applied Veterinary Parasitology. Project title: *"Epidemiology of Fasciola and gastrointestinal nematodes of cattle in northern rangelands of Kenya”.*
5. Charity W. Hungu - MSc Candidate in Clinical Pathology and Diagnosis. Project title: *"Health monitoring in domestic rabbits in Nairobi and its environs”.*
6. Erik Esevaria – MSc Candidate in Veterinary Epidemiology and Economics. Project title: *“Prevalence and risk factors for Taenia solium cysticercosis in Homa bay District, Kenya”*
7. Mary J. Oguna – PhD Candidate in Pharmacology & Toxicology. Project title: *“Anthelmintic usage in food producing animals in Kenya and development of resistance in nematodes.*

10. UNDERGRADUATE STUDENTS' PROJECTS SUPERVISION

Completed Projects

1. Charity W. Hungu. BSc Biomedical Technology, University of Nairobi.
Project title: *“Survey for helminth infections in cattle and sheep of various age groups on the Faculty of Veterinary farm at Kanyariri, Kabete”*
2. Jisuvei Clayton Salano. BSc Biomedical Technology, University of Nairobi.
Project title: *“Gastrointestinal parasites of free ranging olive baboons (Papio anubis) captured at Kwetu farm in Thika”*

11. EXAMINATION OF POSTGRADUATE STUDENTS’ THESIS

Has examined over 10 postgraduate theses for both MSc and Ph.D

12. SCHOLARSHIPS AND GRANTS HELD

Current grants:

1. Principal Investigator for project funded by ASARECA titled "Diagnostic and control tools and strategies for *Taenia solium* cysticercosis". The project is funded by ASARECA.

Previous grants:

2001 – 2002: Postdoctoral Research Fellowship, University of Pretoria, to carry out research on integrated management interventions for helminth infections in goats in S. Africa.

- 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.
- 1998 – 2000: Food and Agricultural Organization (FAO) Technical Co-operation Programme (TCP) funding to validate helminth control strategies for ruminants in Kenya.
- 1994 – 1996: University of Nairobi's Deans' Committee Grant to carry out research on the prevalence of internal parasites in donkeys in Kiambu District of Kenya and the pathological lesions associated with the infections.
- 1994 – 1995: Co-investigator in a British Overseas Development Administrations (ODA) grant to carry out a study on the sale and use of anthelmintics for livestock in Kenya.
- 1992 – 1996: Danish International Development Assistance (DANIDA) funding to undertake Ph.D. studies at both the University of Nairobi in Kenya and the Royal Veterinary & Agricultural University in Denmark.
- 1991 – 1992: University of Nairobi's Deans' Committee Grant to carry out research on the prevalence of anthelmintic resistance in nematodes of sheep and goats in Kenya.
- 1986 – 1989: Canadian International Development Agency (CIDA) scholarship, to study for a Master of Science degree at McGill University in Canada.

13. SUMMARY OF SCIENTIFIC PUBLICATIONS AND CONFERENCE PAPERS

1. Fifty two (53) full-length papers in refereed scientific journals.
2. Four (4) full-length papers in refereed scientific proceedings.
3. Eighteen (29) abstracted papers presented in scientific conferences.
4. Nineteen (21) abstracted papers presented in seminars and workshops.

14. REVIEW OF JOURNAL ARTICLES

1. Member of the Editorial Board of the Bulletin of Animal Health and Production in Africa.
2. Has refereed manuscripts submitted for publication to:
 - (a) The Kenya Veterinarian Journal
 - (b) Veterinary Research Journal
 - (c) Journal of the South African Veterinary Association
 - (d) Onderstepoort Journal of Veterinary Research
 - (e) The East & Central African Journal of Pharmaceutical Sciences

15. MEMBERSHIP TO PROFESSIONAL ORGANIZATIONS

Member of:

1. Kenya Veterinary Association
2. Canadian Society of Zoologists.
3. World Association for the Advancement of Veterinary Parasitology (WAAVP).

4. Commonwealth Veterinary Association.
5. Scandinavian Society of Parasitologists.
6. International Sheep Veterinary Association.
7. Cysticercosis Working Group in Eastern & Southern Africa

16. 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.

DETAILS SUPPORTING CV WITH LIST OF PUBLICATIONS

1.0 LIST OF PUBLICATIONS

Thesis

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.

Publications in refereed scientific journals

1. **Maingi, N.**, Scott, M.E. and Prichard, R.K. (1990). Effect of selection pressure for thiabendazole resistance on fitness of *Haemonchus contortus* in sheep. *Parasitology*, 100:327-335.
2. **Maingi, N.** (1991). Resistance to thiabendazole, fenbendazole and levamisole in *Haemonchus* and *Trichostrongylus* species in sheep on a Kenyan farm. *Veterinary Parasitology* 39:285-291.
3. **Maingi, N.** (1991). Variations in LC50 in the egg hatch assay for anthelmintic resistant trichostrongylid nematode parasites in sheep. *Bulletin of Animal Health and Production in Africa* 39 (2): 167-172.
4. **Maingi, N.** (1991). Observations on changes in resistance to levamisole in *Haemonchus contortus* after passage in sheep and calves. *Bulletin of Animal Health and Production in Africa* 39 (3): 281-287.
5. Waruiru, R.M., **Maingi, N.** and Gichanga, E.J. (1991). The prevalence of anthelmintic resistance in sheep in three districts of Kenya. *Bulletin of Animal Health and Production in Africa* 39 (4): 423-428.
6. **Maingi, N.** and Gichigi, M. N. (1992). Gastrointestinal parasites in cattle on four farms in Nyandarua District, Kenya. *Bulletin of Anim. Hlth and Production in Africa* 40 (1): 9-10.
7. **Maingi, N.** (1993). Resistance to thiabendazole, fenbendazole and levamisole in gastrointestinal nematodes of goats in Kenya. *Indian J. of Animal Science* 63: 227-230.
8. **Maingi, N.**, Gichanga, E.J. and Gichohi, V.M. (1993). Prevalence of gastrointestinal helminths and coccidial parasites and frequency distribution of some nematodes of goats on farms in four districts of Kenya. *Bulletin of Animal Health and Production in Africa* 41: 285-290.
9. Waruiru, R.M., **Maingi, N.** and Gichanga, E.J. (1993). Resistance of field isolates of *Haemonchus contortus* to thiabendazole and fenbendazole in Kenya. *Bulletin of Animal Health and Production in Africa* 41: 133-137.

10. **Maingi, N.**, Gichanga, E.J. and Gichohi, V.M. (1993). Anthelmintic resistance in nematode species of goats on some farms in Kenya. *Bulletin of Animal Health and Production in Africa* 41: 195-201.
11. **Maingi, N.** and Munyua, W.K. (1994). Prevalence and intensity of infection with *Eimeria* species in sheep in Nyandarua District of Kenya. *Veterinary Research Communications* 18: 19-25.
12. Kinoti, G.K., **Maingi, N.** and Coles, G.C. (1994). Anthelmintics usage in Kenya and its implications. *Bulletin of Animal Health and Production in Africa*. 42:71-73.
13. **Maingi, N.** and Mathenge, S.N. (1995). Acute fatal fasciolosis in sheep in Kinangop division in Nyandarua District of Kenya. *Bulletin of Animal Health and Production in Africa*. 43: 21-27.
14. Bjørn, H., Thamsborg, S.M. and **Maingi, N.** (1995). Ormemiddelresistens hos far (Anthelmintic resistance in sheep). Hovedresultater af endansk undersøgelse (The results of a survey in Denmark). *Tidsskrift for Dansk Fareavl (Danish Sheep Breeders Journal)* 60: 19.
15. Thamsborg, S.M. Bjørn, H. and **Maingi, N.** (1995). Indvoldsorm hos far (Gastrointestinal worms of sheep) - 13 væsentlige spørgsmål om lobetarmorm (13 important questions about intestinal and abomasal worms). *Tidsskrift for Dansk Fareavl (Danish Sheep Breeders Journal)* 60:6.
16. **Maingi, N.**, Bjørn, H., Thamsborg, S.M., Dangolla, A. and Kyvsgaard, N.C. (1996). A questionnaire survey of nematode control practices on goat farms in Denmark. *Veterinary Parasitology* 66:25-37.
17. **Maingi, N.**, Bjørn, H., Thamsborg, S.M., Dangolla, A. and Kyvsgaard, N.C. (1996). Worm control practices on sheep farms in Denmark and implications for the development of anthelmintic resistance. *Veterinary Parasitology* 66:39-52.
18. **Maingi, N.**, Bjørn, H., Thamsborg, S.M., Bøgh, H. and Nansen, P. (1996). A survey of anthelmintic resistance in nematode parasites of goats in Denmark. *Veterinary Parasitology* 66:53-66.
19. **Maingi, N.**, Bjørn, H., Thamsborg, S.M., Bøgh, H. and Nansen, P. (1996). Anthelmintic resistance in nematode parasites of sheep in Denmark. *Small Ruminant Res.* 23:171-181.
20. **Maingi, N.**, Bjørn, H., Thamsborg, S.M. Munyua, W.K., Gathuma, J.M. and Dangolla, A. (1997). Worm control practices on sheep farms in Nyandarua District of Kenya. *Acta Tropica* 68:1-9.
21. **Maingi, N.**, Thamsborg, S.M., Gichohi, V.M., Munyua, W.K. and Gathuma, J.M. (1997). The strategic use of closantel and albendazole in controlling naturally acquired gastrointestinal nematodes of sheep in the Kenya Highlands. *Veterinary Research Communications* 21:547-557.
22. **Maingi, N.**, Gichohi, V.M., Munyua, W.K., Gathuma, J.M. and Thamsborg, S.M. (1997).

- The epidemiology of nematodes and liver fluke infections in sheep in Nyandarua District of Kenya. *Bulletin of Animal Health and Production in Africa*. 45:27-34.
23. **Maingi, N.**, Bjørn, H. and Dangolla, A. (1998). The relationship between the faecal egg-count reduction percentage (FECR%) and the lethal dose 50% (LD50) in the egg hatch assay and larval development assay. *Veterinary Parasitology*. 77: 133.
 24. **Maingi, N.**, Bjørn, H., Munyua, W.K. and Gathuma, J.M. (1998). Resistance to benzimidazoles and levamisole in nematode parasites of sheep in Nyandarua District of Kenya. *Acta Tropica* 69:31-40.
 25. Lewa, A. K., **Maingi, N.**, Munyua, W.K. and Ngatia, T. A. (1999). Seasonal population dynamics of gastrointestinal helminths in donkeys in Kiambu District of Kenya. *Bulletin of Animal Health and Production in Africa*. 47:19-20.
 26. Lewa, A. K., Munyua, W.K., Ngatia, T. A., and **Maingi, N.** (1999). Pathological lesions associated with internal parasites of donkeys in Kiambu District, Kenya. *The Kenya Veterinarian* 24:43-45.
 27. **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. *Bulletin of Animal Health and Production in Africa* 47:29-32.
 28. Lewa, A. K., Munyua, W.K., Ngatia, T. A. and **Maingi, N.** (2001). Common internal parasites encountered in donkeys in Kiambu District, Kenya. *The Kenya Veterinarian* 21:49-51.
 29. **Maingi, N.** and Gichigi, M. N. (2001). Repeatability of questionnaire responses on worm control practices on sheep farms in Nyandarua District of Kenya. *Bulletin of Animal Health and Production in Africa* 49: 1-10.
 30. Githigia, S.M., Thamsborg, S.M., Munyua, W.K. and **Maingi, N.** (2001). Impact of gastrointestinal helminths on production in young goats in Kenya. *Small Ruminant Research* 42:21-29.
 31. Maingi, N., Gichigi, M. N. and Njoroge, G.K. (2001) Gastrointestinal nematode infections in sheep grazing on communal land in Nyandarua District of central Kenya. *Bulletin of Animal Health and Production in Africa* 49: 153-161.
 32. **Maingi, N.**, Otieno, R.O., Gichohi, V.M. and Weda, E.H. (2002). Strategic control of gastrointestinal nematodes in sheep in the highlands of central Kenya. *Onderstepoort Journal of Veterinary Research* 69:229-235.
 33. **Maingi, N.**, Munyua, W.K. and Gichigi, M. N. (2002). The strategic use of moxidectin or closantel in combination with levamisole to control nematodes of sheep in the Kenya highlands. *Acta Tropica* 84: 93-100.
 34. **Maingi, N.**, Weda, E.H., Otieno, R.O and Gichohi, V.M. (2002). Effect of three anthelmintic treatment regimes against *Fasciola* and gastrointestinal nematodes on the

- performance of ewes and lambs on pastures in the highlands of Kenya. *Veterinary Research Communications* 26:543-552.
35. Kithuka, J.M., **Maingi, N.**, Njeruh, F. M. and Ombui, J.N. (2002). The prevalence and economic importance of bovine fasciolosis in Kenya. An analysis of abattoir data. *Onderstepoort Journal of Veterinary Research* 69:255-262.
 36. Phiri, I.K., Ngowi, H., Alfonso, S., Matenga, E., Boa, M., Mukaratirwa, S., Githigia, S., Saimo, M., Sikasunge, C., **Maingi, N.**, Lubega, G.W., Kassuku, A., Michael, L., Siziya, S., Krecek, R.C., Noormahomed, E., Vilhema, M., Dorny P. and Willingham, A.L. (2003). The emergence of *Taenia solium* cysticercosis in Eastern and Southern Africa as a serious agricultural problem and public health risk. *Acta Tropica* 87:13-23.
 37. Thoithi, G.N., **Maingi, N.**, Karume, D., Gathumbi, P.K., Mwangi, J.W. and Kibwage, I.O. (2003). Anthelmintic and other pharmacological activities of the root bark extracts of *Albizia anthelmintica* Brongn. *The East and Central African Journal of Pharmaceutical Sciences* 5: 60-66.
 38. Ng'ang'a, C.J., **Maingi, N.**, Munyua, W.K. and Kanyari, P.W.N. (2004). Epidemiology of gastrointestinal helminth infections in Dorper sheep in a semi-arid area of Kenya. *Onderstepoort Journal of Veterinary Research* 71: 219 -226.
 39. Krecek, R.C. and **Maingi, N.** (2004). Comparison of two techniques used for the recovery of infective strongylid nematode larvae in herbage. *Veterinary Parasitology* 122: 233-143.
 40. Njeruh, F. M., Kithuka, J.M., **Maingi, N.** and Ombui, J.N. (2004). Prevalence and economic importance of fasciolosis in cattle, sheep and goats in Kenya. *The Kenya Veterinarian* 118 - 123.
 41. Njeruh, F. M., Kithuka, J.M., **Maingi, N.** and Ombui, J.N. (2004). Relative occurrence of *Fasciola* species in cattle, sheep and goats slaughtered at Dagoretti Slaughterhouse in Kenya. *The Kenya Veterinarian* 124 - 126.
 42. Ng'ang'a, C.J., Munyua, W.K., **Maingi, N.** and Kanyari, P.W.N. (2004) Occurrence of periparturient rise in trichostrongylid nematode egg output in Dorper ewes in a semi-arid area of Kajiado District of Kenya. *Acta Tropica* 92:213-218.
 43. Ng'ang'a, C.J., **Maingi, N.**, Kanyari, P.W.N. and Munyua, W.K. (2004). Gastrointestinal nematode infections in Dorper lambs in a semi-arid area of Kajiado District of Kenya. *Bulletin of Animal Health and Production in Africa*.52: 160-166.
 44. Ng'ang'a, C.J., **Maingi, N.**, Kanyari, P.W.N and Munyua, W.K. (2004). Development, survival and availability of gastrointestinal nematodes of sheep on pastures in a semi-arid area of Kajiado District of Kenya. *Veterinary Research Communications*, 28: 491-501.
 45. **Maingi, N.**, Krecek, R.C. and Nadia van J (2006). Control of gastrointestinal nematodes in goats on pastures in South Africa using the nematophagus fungi *Duddintonia flagrans* and selective anthelmintic treatments. *Veterinary Parasitology* 138: 328-336.

46. Nganga, C.J., **Maingi, N.**, Kanyari, P.W.N and Munyua, W.K. Epidemiology and control of gastrointestinal nematodes in Dorper lambs in a semi-arid area of Kajiado District of Kenya. *The Kenya Veterinarian*.
47. Ng'ang'a, C.J., **Maingi, N.**, Munyua, W.K. and Kanyari, P.W.N. (2006). The effects of weather on the occurrence and magnitude of peri-parturient rise in trichostrongylid nematode egg output in Dorper ewes in a semi-arid area of Kajiado District of Kenya. *Tropical Animal Health and Production* 38: 389-385.
48. Nganga, C.J., **Maingi, N.**, Kanyari, P.W.N and Munyua, W.K. (2006). Seasonal patterns of gastrointestinal nematode infections in sheep in a semi-arid area of Kajiado District of Kenya. *Bulletin of Animal Health and Production in Africa* 54:1-6
49. Okanga S.M., Muchemi G., **Maingi N.** Mogoia E and Munene E (2006). Gastrointestinal parasites of free-ranging colobus monkeys (*Colobus angolensis palliatus*) in Kwale District, coastal Kenya. *African Journal of Ecology* 44:410-412
50. Gichohi, C.M., Mbuthia, P.G., Waruiru, R.M., Ngatia, T.A., Maingi, N., Weda, E.H. and Otieno, R. (2008). Preliminary study of the prevalence of helminthes and their associated pathological lesions in four fish species from river Tana. *Bulletin of Animal Health and Production in Africa* 56(1): 38-46
51. Ng'ang'a, C.J., Maingi, N., Kanyari, P.W.N. and Munyua, W.K. (2009). The effects of anthelmintic treatments against gastrointestinal nematodes on the performance of breeding ewes and lambs on pasture in semi -arid Kenya. *Tropical Animal Health and Production* 41:921-926.
52. Kagira J.M., Maingi, N., Kanyari, P.W.N., Githigia, S.M., Nganaga, J.C. and Gachohi, J.M. (2009). Characteristics of pig trade in low income settings in Busia District, Kenya. *The Tropical Veterinarian* 26: (2) 1- 9.
53. Kagira J.M., Kanyari P.W.N., Maingi N., Githigia S.M., Ng'ang'a J.C., Karuga J.W. (2009). Characteristics of the smallholder free-range pig production system in western Kenya. *Tropical Animal Health and Production*. DOI: 10.1007/s11250-009-9500-y

Full-length papers published in proceedings

1. Waruiru, R.M., **Maingi, N.**, Karanu, F., Gichanga, E.J. and Ndegwa, C.K. 1991). The incidence of thiabendazole and fenbendazole resistance in field populations of *Haemonchus contortus*. Proceedings of the Small Ruminants Collaborative Research Support Programme (SR-CRSP) workshop held on 27-28 February 1991 in Nairobi, Kenya. pp 110-115.
2. **Maingi, N.**, Gichanga, E.J. and Gichohi, V.M. (1993). *Haemonchus* and *Trichostrongylus* species in goats in Kenya resistant to anthelmintics. Proceedings of the Small Ruminants Collaborative Research Support Programme (SR-CRSP) workshop held on 26-27th February 1992 in Nairobi, Kenya. pp 124-130.
3. **Maingi, N.** (1999). Control of gastrointestinal nematodes in weaner calves in the Kenya highlands. Proceedings of the IXth International Conference of Associations of institutions

of Tropical Veterinary Medicine held in Harare, Zimbabwe in 1999. Vol 1. p 357 - 367.

4. Willingham, L., Mukaratirwa, S. and **Maingi, N.** (2002). Research capacity building: ENRECA livestock helminth Research Project in Eastern and Southern Africa after 10 years. Proceedings of the Xth International Conference of Associations of institutions of Tropical Veterinary Medicine held in Copenhagen, Denmark in 2001. p 19 - 21.

Abstracted papers presented at scientific conferences

1. 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.
2. 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, May 1989.
3. 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.
4. 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.
5. 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.*
6. 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.*
7. 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.
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