

CURRICULUM VITAE

PERSONAL DETAILS

Name: Dr. Chege J. Ng'ang'a

Gender: Male

Date of birth: 9/9/1964.

Place: Gitwamba, Trans Nzoia District, Rift Valley Province.

Marital Status: Married with three children.

Nationality: Kenyan

Current address: University of Nairobi
Department of Veterinary Pathology, Microbiology and Parasitology
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ACADEMIC QUALIFICATIONS

Doctor of Philosophy in Veterinary Parasitology (Ph.D), University of Nairobi - 2004

Master of Science in Veterinary Pathology and Microbiology (MSc.) - University of Nairobi ó 1993

Bachelor of Veterinary Medicine (B.V.M.), University of Nairobi ó 1989

ADDITIONAL TRAINING

1. Writing grant proposals, University of Nairobi, 2nd ó 6th February 2015
1. Preparation of distant learning modules (ODL), University of Nairobi, 26th ó 30th October, 2014,
2. PhD Student Supervision, University of Nairobi, 17th ó 19th June 2014
3. Scientific Proposal Writing, University of Nairobi, 19th - 25th November, 2006
4. Methods of disseminating research findings to farmers, The Mediae Company, Nairobi Kenya, 7th ó 11th May 2001

PROFESSIONAL QUALIFICATIONS

1. Registered Veterinary Surgeon (Reg. No. 929)
2. Member Kenya Veterinary Association (Reg. No. 1131)
3. Veterinary Parasitologist

POSITIONS HELD AND RESPONSIBILITIES

a) Positions held

- 1) Senior Lecturer: 2004 to date
- 2) Lecturer: 1993 - 2004
- 3) Assistant lecturer: 1989 ó 1993

b) Other responsibilities

- 1) Severally acted as Departmental chairman (2009 - 2010)
- 2) Chairman, Faculty and College Exhibition Committee (2008-2011)
Represented the Department, Faculty of Veterinary Medicine and College in:
 - i) Commission for higher Education Organised Exhibitions (Nairobi, Mombasa, Nyeri, Kisumu and Nakuru)
 - ii) Nairobi International Trade Fare
 - iii) CHEA Conference, 15th- 19th 2010, Kampala Uganda
- c) Co-ordinator: Bachelor of Biomedical Technology Course in Parasitology Section (2000-2002)
- d) Participation in committees:
 - i) Chairman: Biological waste management committee (Department, current)
 - ii) Member: Biosafety and biosecurity committee (Department, current)
 - iii) Member Organising committee: 7th Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, Nairobi Kenya (2008 ó 2010).

WORKING EXPERIENCE

I have worked in the Department of Veterinary Pathology, Microbiology and Parasitology of the University of Nairobi since September 1989 to date where I have been involved in:

A. TEACHING AND EXAMINATION:

I have been involved in teaching, examination and supervision of both the undergraduate and postgraduate students

a) Undergraduate students:

1. Parasitology to: (a) Bachelor of Veterinary Medicine, years 2 & 3, (b) Bachelor of Biomedical Laboratory Technology Level 3, (c) Agricultural Extension and Education, year 2&3 and (d) Diploma in Animal Health and Production
2. Special Pathology to: Bachelor of Veterinary Medicine, year 3&4.
3. Diagnostic Pathology to: Bachelor of Veterinary Medicine, year 5.
4. Etiology of Disease to: (a) Bachelor of Wildlife Management and Conservation, year 3 (b) Bachelor of Agriculture Animal Science Major, year 3
5. Leather Microbiology and Parasitology to: Bachelor of Leather Science, year 1
6. Microbial Biochemistry: Bachelor of Science in Biochemistry, year 3

b) Postgraduate students:

Parasitology to: (a) Masters of Science in Veterinary Pathology, Microbiology and Parasitology and (b) Masters of Science in Applied Parasitology

c) Summary: Postgraduate students thesis examination

Programme	Internal examiner	Board member	External Examiner
MSc.	5	4	1 (JKUAT)

d) Student supervision

1. Summary

Programme	Completed	Ongoing
PhD	1	2
MSc	3	3
Undergraduate projects	9	-

2. Details of Postgraduate student supervision

a. Ph.D. Students

- 1) John Maina Kagira. The epidemiology and control of pig parasites in smallholder pig farms in Busia District, Kenya (Awarded, University of Nairobi, 2009)
- 2) Vincent Onyango Obanda. Effects of habitat overlap on parasite transmission between sympatric primate and ungulate host species in Amboseli ecosystem. (Thesis submitted to BPS for examination)

- 3) Linda Gatwiri Maina. Effects of host movement patterns on the helminth infections in zebras of Maasai Mara National reserve and Lake Nakuru National Park, Kenya (Supervision ongoing: At an advanced stage of data collection and analysis).

b. MSc. Students

- 1) Lubembe Donald Mukolwe: Molecular characterization of the ITM vaccine using microsatellite and minisatellite genotyping (Awarded, University of Nairobi, 2011)
- 2) Obonyo Fredrick Ojiambo: Epidemiology and public health importance of gastrointestinal helminths and haemoparasites of pigs in Homabay district, Kenya (Awarded, University of Nairobi, 2011)
- 3) Charity Waigia Hungu. Health Monitoring in Domestic Rabbit (*Oryctolagus cuniculus*) in Nairobi and its environs (Awarded, University of Nairobi, 2011)
- 4) Joel O.M. Nyamweya. Epidemiology and economic importance of *fasciola*, and gastrointestinal nematodes of cattle in northern rangelands of Kenya (On going)
- 5) Wagura David Warui. Prevalence of gastrointestinal parasites of dogs under veterinary care in Nairobi Conty, Kenya (On going)
- 6) Mercy Mumbi Murigu. Evaluation of entomopathogenic fungi (*Metarhizium anisopliae* and *Beauveria bassiana*) for biological control of *Boophilus decoloratus* (On going)

e) Development of teaching modules

- 1) Developing Open and Distance Learning (ODL) module together with others, for the course Masters of Science in Applied Veterinary Parasitology, a degree programme in the Department of Veterinary Pathology, Microbiology and Parasitology (Ongoing).
- 2) Developed Open and Distance Learning (ODL) module together with others, for the course AAS 204: Parasitology for the BSc in Agricultural Education and Extension, degree programme in the Faculty of Agriculture (2011- 2012)

B. RESEARCH WORK

I have carried out research and supervised postgraduate student's research and reporting and presentation of findings as evident from the publications and conference, workshop, seminar presentation and attendance as shown below.

1. Publications:

a) Thesis

- 1) **Ng'ang'a, C.J. (2002). Ph.D.** Epidemiology and control of gastrointestinal helminth infection in sheep in a semi-arid area of Kajiado District of Kenya. University of Nairobi
- 2) **Ng'ang'a, C.J. (1992). MSc.** Investigation of the involvement of the domestic cat in the cyclic transmission of caprine *Besnoitia*. University of Nairobi.

b) Book Chapters

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

a) Refereed Journals

1. C.J. Nganga, W.W. Gakuya, R.O. Otieno and R.W. Githinji (2014). Co-administration of Albendazole and Levamisole to control multiple anthelmintic resistant nematodes in a sheep farm in Kabete Kenya. **Bulletin of Animal Health and Production in Africa**. 62: 275-278
2. Hungu, C.W., Gathumbi P.K., N. Mangi and **Nganga, J.C.** (2013). Production characteristics and constraints of rabbit farming in Central, Nairobi and Rift Valley Provinces in Kenya. **Livestock research for rural development 25**
3. Obonyo, F.O., Maingi, N., Githigia, S.M. and **Ng'ang'a, C. J.** (2013): Farming practices and risk factors for transmission of helminths of free range pigs in Homabay District, Kenya. **Livestock Research for Rural Development. Volume 25, Article #36**. Retrieved March 21, 2013, from <http://www.lrrd.org/lrrd25/3/bon25036.htm>
4. Kagira, J.M., Kanyari, P.N., Maingi, N., Githigia, S. M., **Ng'ang'a, C.**, Gachohi, J., (2013). Relationship between the Prevalence of Ectoparasites and Associated Risk Factors in Free-Range Pigs in Kenya. Hindawi Publishing Corporation. **ISRN Veterinary Science**. Volume 2013, Article ID 650890, 5 pages. <http://dx.doi.org/10.1155/2013/650890>
5. Obonyo, F.O., Maingi, N., Githigia, S.M. and **Ng'ang'a, C. J.** (2012): Prevalence, intensity and spectrum of helminths of free range pigs in Homabay District, Kenya. **Livestock Research for Rural Development. Volume 24, Article #048**. Retrieved, from <http://www.lrrd.org/lrrd24/03/obon24048.htm>
6. Kagira, J.M., Kanyari, P.W.N, Githigia, S.M., Maingi, N., **Ng'ang'a, J.C.** and Gachohi, J.M. (2012). Risk factors associated with occurrence of nematodes in free-range pigs in Busia District, Kenya. **Tropical Animal Health and Production**. 44: 657- 664
7. DN Karanja, TA Ngatia, JK Wabacha, LC Bebora, **CJ Ng'ang'a** (2011). Pathogenic effects associated with natural gastrointestinal helminth infections in pigs in Kenya. **Bulletin of Animal Health and Production in Africa**. 59: 53-59
8. Kagira J.M., Githigia, S.M., **Ng'ang'a, J.C.**, Kanyari. P.W.N., Maingi, N., and Gachohi, J.M. (2010). Prevalence of gastrointestinal protozoa and association with risk factors in free-range pigs

in Kenya. **Journal of Protozoology**. 20: 1-9

9. Kagira J.M., Maingi, N., Kanyari. P.W.N., Githigia, S.M., **Ng'ang'a, J.C.** and Gachohi, J.M. (2010). Seroprevalence of *Cysticercosis cellulosae* and associated risk factors in free range Pigs in Kenya. **Journal of Helminthology**. 84: 398 -403
10. Kagira J.M., Kanyari P.W.N., Maingi N., Githigia S.M., **Ng'ang'a J.C.**, Karuga J.W. (2010). Characteristics of the smallholder free-range pig production system in western Kenya. **Tropical Animal Health and Production**. 42:865-873
11. Kagira J.M., Maingi, N., Kanyari. P.W.N., Githigia, S.M., **Ng'ang'a, J.C.** and Gachohi, J.M. (2010). Characteristics of pig trade in low income settings in Busia District, Kenya. **Tanzanian Veterinary Journal**. 27: 27- 36
12. **C. J. Nganga**, N. Maingi, P.W.N. Kanyari and W.K. Munyua (2009). The effects of anthelmintic treatments against gastrointestinal nematodes on the performance of breeding ewes and lambs on pastures in semi-arid Kenya. **Tropical Animal Health and Production**: 41: 921-926
13. **C. J. Nganga**, D.N. Karanja and M.N. Mutune, (2008). The prevalence of gastrointestinal helminth infections in pigs in Kenya . **Tropical Animal Health and Production**: 40: 331-334
14. Gakuya, D.W., **Nganga, C.J.**, Karanja, D.N., Wabacha, J.K. and Mutune, M.N. (2007). Multiple anthelmintic resistance on a sheep farm in Kenya and its implication for helminth control. **Bulletin of Animal Health and Production Africa**. 55 226-230
15. **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 Africa**. 54: 1-6
16. **Nganga, C.J.**, Kanyari, P.W.N., Maingi, N. and Munyua, W.K. (2006). The effects of weather on the occurrence and magnitude of periparturient 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: 389-395
17. **Nganga, C.J.**, Maingi, N., Kanyari, P.W.N and Munyua, W.K. (2005). Epidemiology and control of gastrointestinal nematodes in Dorper lambs in a semi-arid area of Kajiado District of Kenya. **The Kenya Veterinarian**. 29: 64-66
18. **Nganga, 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
19. **Nganga, C.J.**, Maingi, N. Munyua, W.K., and Kanyari, P.W.N. (2004). Epidemiology of gastrointestinal helminths infection in Dorper sheep in a semi-arid area of Kajiado District of Kenya. **Onderstepoort Journal of Veterinary Research**. 71: 219-226

20. **Nganga, 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 Communication**. 28: 491-501
21. **Nganga, C.J.**, Maingi, N. Munyua, W.K. and Kanyari, P.W.N. (2004). Gastrointestinal nematode infection in Dorper lambs in a semi-arid area of Kajiado District of Kenya. **Bulletin of Animal Health and Production Africa**. 52: 160-166
22. Munyua, W.K., **Nganga, C.J.** and Ngotho, J.W. (1998). Efficacy of ivermectin delivered from a sustained-release bolus against gastrointestinal nematodes in field grazing calves in Nyandarua district of Kenya. **Veterinary Parasitology**. 76: 105-119
23. Kanyari, P.W.N., Munyua, W.K., **Ng'ang'a, C.J.** and Ngotho, J.W. (1996). Epidemiology of bovine *Toxocara vitulorum* in faecal and milk samples in an endemic district of Kenya. **Bulletin of Animal Health and Production Africa**. 44: 255-256
24. **Ng'ang'a, C.J.**, Karanja, D.N.R. and Wandera, J.G. (1994). Obstructive urolithiasis in a herd of pigs in Kenya. **Bulletin of Animal Health and Production Africa**. 42: 77-78
25. **Ng'ang'a, C.J.** and Kasigazi, S. (1994). Caprine besnoitiosis: Studies on the experimental intermediate hosts and the role of the domestic cat in transmission. **Veterinary Parasitology**. 52: 207-210
26. **Ng'ang'a, C.J.**, Kanyari, P.W. and Munyua, W.K. (1994). Isolation of *Besnoitia wallacei* in Kenya. **Veterinary Parasitology**. 52: 203-206
27. **Ng'ang'a, C.J.** Munyua, W.K. and Kanyari, P.W. (1994). Recovery and identification of *Besnoitia* and other coccidia from cat faeces around Kabete in Kenya. **Bulletin of Animal Health and Production Africa**. 42:187-191

b) Conference, workshops, seminar attendance and paper presentations

1. Conference and workshops

- 1) Curriculum review for Vet Pathology. Microbiology & Parasitology, Hadassa Hotel_Ralph Bunche Rd. 12th ó 15th April 2015
- 2) Prepare óPHD project, PhD Supervision Training Workshop. University of Nairobi, 17th ó 19th June 2014
- 3) Practical Approaches for Diagnosis and Treatment of Poultry diseases 6/8/2014.
- 4) Agricultural Education and Extension writersøworkshop at KWS Training Institute ó Naivasha 26th ó 30th October 2014.
- 5) 9th Biennial Scientific Conference and Exhibition of Faculty of Veterinary Medicine 3rd ó 5th September 2014.

- 6) CPD workshop on practical approaches for diagnosis and treatment of poultry diseases.
- 7) Forensic Science and welfare of birds of prey and the interface with poultry and other industries. Held in University of Nairobi, Department of Veterinary Pathology, Microbiology and Parasitology on 3rd July, 2013.
- 8) Research findings on ECF vaccination and tick survey studies in the Laikipia ecosystem. Pride Inn Hotel Westlands, 8th November 2012.
- 9) Joint writers/reviewers workshop for CHS, CAVS and CEES at KWS Training Institute ó Naivasha 5th ó 11th August 2012.
- 10) Quality Research Grant Audit Systems Training Workshop held at Coffee Research Foundation, Ruiru Campus. 21st ó 23rd February, 2012
- 11) Agricultural Education and Extension writersøworkshop at Kenya Scholl of Law. 12th -16th September 2011
- 12) PhD supervision Training Workshop held. College of Agriculture and Veterinary Sciences, University of Nairobi. 23rd ó 25th March, 2011
- 13) Forensic Veterinary Science workshop. Department of Veterinary Pathology, Microbiology and Parasitology, University of Nairobi. 18th May, 2011
- 14) 7th Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, Nairobi Kenya. 8th ó 10th September 2010.
- 15) 6th Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, Nairobi Kenya. 17th ó 19th September 2008.
- 16) Scientific Proposal Writing, University of Nairobi, KCB Management Centre, Karen, Nairobi. 19th - 25th November, 2006
- 17) 5th Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, Nairobi Kenya. 6th ó 8th September 2006.
- 18) 4th Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, Nairobi Kenya. 3rd ó 5th November 2004.
- 19) Faculty of Veterinary Medicine workshop on electron microscopy and Sterology held in Chiromo and Kabete Campus on 8th ó 10th September, 2004, Kabete, Nairobi
- 20) 12th Annual meeting of the ENRECA Livestock Helminths Research Project in Eastern & Southern Africa, Morogoro - Tanzania, 21st ó 24th June, 2003.
- 21) 10th Annual meeting of the ENRECA Livestock Helminths Research Project in Eastern & Southern Africa, Nairobi - Kenya, 3rd ó 5th May, 2001.

22) Project workshop, FAO-TCP Helminth Control Project (TCP/KEN/8822(A), Nairobi - Kenya, 20th December, 2000.

2. Paper presented in conferences

- 1) **C.J. Nganga**, D.W. Gakuya, R.M. Waruiru, A.Z., Sabuni and B.S. Muasa. Co-administration of albendazole and nitroxylnil to control multiple anthelmintic resistant nematodes in a sheep farm in Kabete Kenya. Proceedings of the 49th Annual Scientific Conference, Hotel Itoya, Busia County, 22nd ó 25th April 2015.
- 2) D.W. Gakuya, **C.J. Nganga**, R.M. Waruiru, A.Z., Sabuni and B.S. Muasa. Evaluation of anthelmintic efficacies in controlling gastrointestinal helminth infections in a sheep farm in Kabete Kenya with multiple drug resistance. Proceedings of the 49th Annual Scientific Conference, Hotel Itoya, Busia County, 22nd ó 25th April 2015.
- 3) M.M. Murigu, P. Nana, R.M. Waruiru, **J.C. Nganga**, S. Ekesi and N.K. Maniania. Selection of promising Entomo-pathogenic fungal isolates against *Rhipicephalus (Boophilus) decoloratus*. Proceedings of the 49th Annual Scientific Conference, Hotel Itoya, Busia County.
- 4) **C.J. Nganga**, D.W.Gakuya, R.O. Otieno and R.W. Githinji (2014). Co-administration of albendazole and levamisole to control multiple anthelmintic resistant nematodes in a sheep farm in Kabete. 9th Biennial Scientific Conference and Exhibition of Faculty of Veterinary Medicine 3/9/2010 - 5/9/2014.
- 5) J.K. Muthee, D.W. Gakuya, J.M. Mbaria, C.M. Mulei, J.M. Mugambi and **J. C. Nganga**, (2014). Evaluation of anthelmintic efficacy of selected medicinal plants traditionally used in Loitoktok, Kenya 9th Biennial Scientific Conference and Exhibition of Faculty of Veterinary Medicine 3/9/2010 - 5/9/2014.
- 6) Gakuya, D.W., Okoth, M.O., Muraya, J., **Nganga** , **C.J.** and Muthee, J.K (2014). An outbreak of acute helminthosis in a sheep and goat farm in Machakos County. 9th Biennial Scientific Conference and Exhibition of Faculty of Veterinary Medicine 3/9/2010 - 5/9/2014.
- 7) **C.J. Nganga**, D.K.Korir, S.S. Lolokote and J. Liaulo (2014). *Varroa destructor*, a cause of decreased honey production in Samburu North District, Samburu County Kenya. 9th Biennial Scientific Conference and Exhibition of Faculty of Veterinary Medicine 3/9/2010 - 5/9/2014.
- 8) **C.J. Ng'ang'a**, D. W. Gakuya, A.Z. Sabuni, R.M. Waruiru, B.S. Musaa. Evaluation of the anthelmintic efficacy of *Calliandra calothyrsus* and *Leucaena trichandra* against multiple anthelmintic resistance nematodes in sheep. Proceedings of the 6th Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, Nairobi Kenya. 17th ó 19th September 2008.
- 9) **C.J. Ng'ang'a**. Multiple anthelmintic resistance on a sheep farm in Kenya and its implication for helminth control. Proceedings of the 5th Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, Nairobi Kenya. 6th ó 8th September 2006
- 10) **C.J. Ng'ang'a**. Epidemiology and control of gastrointestinal nematode infections in Dorper lambs in a semi-arid area of Kajiado District. Proceedings of the 4th Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, Nairobi Kenya. 3rd ó 5th November 2004.

- 11) **C.J. Ng'ang'a.** Effects of seasons on the occurrence of peri- parturient rise in trichostrongylid nematode egg output in Dorper ewes in a semi-arid area of Kajiado District of Kenya. Proceedings of the 12th Annual meeting of the ENRECA Livestock Helminths Research Project in Eastern & Southern Africa, Morogoro - Tanzania, 21st ó 24th June, 2003.
- 12) **C.J. Ng'ang'a.** Strategic use of anthelmintics in the control of gastrointestinal nematodes in breeding ewes in a semi-arid area of Kenya. Proceedings of the 10th Annual meeting of the ENRECA Livestock Helminths Research Project in Eastern & Southern Africa, Nairobi - Kenya, 3rd ó 5th May, 2001.
- 13) **C.J. Ng'ang'a.** Evaluation of strategic use of anthelmintics in the control of gastrointestinal nematodes in sheep in Kajiado District of Kenya. Project workshop, FAO-TCP Helminth Control Project (TCP/KEN/8822(A), Nairobi - Kenya, 20th December, 2000.

e) Projects proposals submitted for funding

- 1) 2015: Enhancing red meat productivity through capacity building among value chains actors to prevent carcass and organ condemnation in Kenya. RUFORUM. Call ID. RU/CGS/GRG/21/07/14. (Co-investigator)
- 2) 2013: The status of honey bee health in selected ecological zones of Kenya. Enhancing red meat productivity through capacity building among value chains actors to prevent carcass and organ condemnation in Kenya. National Commission for Science, Technology and Innovation. 5th Call Women Scientist 2013/2014. (Co-investigator)
- 3) 2010: Countering the threat of anthelmintic resistance and improving helminth control for enhanced and sustainable sheep and goats production in Kenya. National Council for Science and Technology. 3th Competitive Science, Technology and Innovation Grant. 2010/2011. (Co-investigator)
- 4) 2009: The prevalence of anthelmintic resistance in sheep farming areas in Kenya, its socio-economic impact and intervention strategies. Call ID. [ru/cfp/cgs/tads/09/1] (Principal investigator)
- 5) 2009: East coast fever: current status and its socio-economic impacts in east Africa: Call ID. [ru/cfp/cgs/tads/09/1] (Co-investigator)

C. EXTENSION AND OUTREACH

- 1) Participated as member of the organizing committee 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.

