

CURRICULUM VITAE



PROF. HORACE OCHANDA

PERSONAL DETAILS

Sex: Male
Year of birth: 1960
Marital status: Married
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University of Nairobi,
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ACADEMIC BACKGROUND

1991 - 1994	Doctor of Philosophy (Parasite Epidemiology)	University of Warwick
1986 - 1988	Master of Science (Parasitology)	University of Nairobi
1981 - 1985	Bachelor of Education (Science)	University of Nairobi
1979 - 1980	Kenya Advanced Certificate of Education	Menengai High School, Nakuru
1975 - 1978	East African Certificate of Education	Menengai High School, Nakuru
1968 - 1974	Certificate of Primary Education	Kimathi Primary School, Nakuru

EMPLOYMENT RECORD

- Professor of Applied Parasitology, University of Nairobi, Nov, 2014 to date.
- Associate Professor of Applied Parasitology, University of Nairobi Feb, 2005 to Nov, 2014.
- Senior Lecturer, University of Nairobi from Sept 1999 – Feb 2005.
- Lecturer, University of Nairobi from Dec, 1994 - Sept 1999.
- Research Fellow, International Livestock Research Institute, Jun 1991 - Nov 1994.
- Tutorial Fellow, University of Nairobi, Feb 1991 - Nov 1994.
- Assistant Lecturer at the Kenya Science Teachers College, Nov 1988 - Feb 1991.
- Graduate Teacher in High School, 1985 - 1986.

COURSES TAUGHT AT UNIVERSITY:

- Various undergraduate and postgraduate courses in the School of Biological Sciences and School of Education, University of Nairobi.

CURRICULUM REVIEW AND DEVELOPMENT

- Member and Team Leader of various programmes at the University of Nairobi.

LEADERSHIP POSITIONS AND OTHER RESPONSIBILITIES

Time / Date	Position / Responsibility
Since July 2014	Deputy Principal, College of Education and External Studies, University of Nairobi (in charge of Kenya Science Campus).
Various dates	Ag. Principal, College of Education and External Studies, University of Nairobi.
Since 15/04/2013	Quality Assurance Board member, University of Nairobi.
July, 2011 to Nov., 2016	University of Nairobi Senate Representative to the Embu University College Council.
Since Aug, 2008	Editor, Kenya Journal of Sciences Series B (Biological Sciences).
March 2011 – June 2014	Associate Dean (Science) and Disposal Committee Chairman, Kenya Science Campus, University of Nairobi.
July, 2009 – June, 2014	ISO Internal Quality Auditor for the University of Nairobi.
2013	Member, Sub-committee that revised the University of Nairobi ISO Quality Management System.
June, 2009 – June 2014	Quality Assurance Officer for College of Biological and Physical Sciences, University of Nairobi.
Sept, 2008 – June, 2014	Chairman of the ISO Steering Committee, College of Biological and Physical Sciences, University of Nairobi.
2008 – 2011	Coordinator, Parasitology & Immunology, School of Biological Sciences, UoN.
2006 – 2008	Thematic Head, Microbiology, Parasitology and Immunology, School of Biological Sciences, UoN
1998 – 2006	Coordinator, Parasitology and Immunology, Department of Zoology, UoN.
1997 – 2010	Patron, Biological Association of Nairobi University Students (BANUS).
Since 2004	Universities' curriculum development resource person for science-based programmes for the Commission for Higher Education (Now CUE), Kenya.

EXTERNAL EXAMINATION

- Jomo Kenyatta University of Agriculture & Technology.

RESEARCH INTERESTS

- Alternative methods of schistosomiasis control
- Community-based vector-borne disease control.
- Parasite epidemiology.
- Vectorial capacity of vectors.
- Immune responses of hosts to parasitic infections.

STUDENT SUPERVISION

Ph D.

1. Mutuku, M.W. (Ongoing)
2. Oisebe, T. O. (Ongoing).
3. Kobia, E. N. (Ongoing).
4. Mwirigi, M. K. (2016).
5. Ndombi, E. M. (2015).
6. Waiganjo, N. N. (2012).
7. Tonnang, Z. E. H. (2008).
8. Mbugua, A.K. (2008).

M.Sc.

1. Kindiki, M. G. (2014).
2. Masakhwe, C. A. (2014).
3. Nthiw'a, D. M. (2013).
4. Gesare, L. M. 2013.
5. Nzau, A. M. (2013).
6. Ondeto, B. M. (2012).
7. Onkoba, W. N. (2012).
8. Kitoyi, R. A. (2011).
9. Ngunjiri, J. W. (2011).
10. Kobia, E. N. (2010).
11. Mwirigi, M. K. (2010).
12. Obare, A. B. (2009).
13. Kepha, S. (2009).
14. Agai, D. O. (2008).
15. Yugi, J. (2007).
16. Ombaso, O. (2006).
17. Mukongolo, B .L. (2006).
18. Katimu, R. M. (2006).
19. Ndakala, F. (2005).
20. Obanda, V. O. (2004).
21. Njaanake, H. K. (2004).
22. Maina, R. M. (2004).
23. Chari, A. J. (2003).
24. Achieng', D. (2003).
25. Khamadi, S. A. (2000).
26. Musembi, S. M. (2000).
27. Mjombah, N. S. S. (2000).
28. Martor, Y. L. (1999).
29. Wanzala, W. (1998).

B.Sc.

1. Odhiambo, D. O. (2015)
2. Hassan, S. H. (2012).
3. Mburu, A. B. M. (2011).
4. Mosongo, F. B. M. (2010).
5. Maina, T. T. (2010).
6. Omeke, N. K. (2009).
7. Kamau, E. N. (2009).
8. Onyango, A. W. A. (2009).
9. Kirui, Leonard. (2008).
10. Oloo, O. P. (2008).
11. Abong,o, M. (2008).
12. Ogongo, Paul. (2007).
13. Cheboi, A. J. (2004).
14. Odiero, J. (2003).
15. Kisang, A. (2001).
16. Agak, G. W. (2000).
17. Lugusa. B. (2000).
18. Nabwire, E. J. (2000).
19. Kinuthia, P. (1999).
20. Wamalwa, M. G. (1999).
21. Muindi, A. M. (1998).
22. Omondi, J. A. (1998).
23. Charo, K. S. (1998).

PUBLICATIONS

1. Nyamongo, O. W., Mumo, R. M., **Ochanda, H.**, Omwandho, C., Ozwara, H. S. & Thomas G. Egwang, T. G. (2017). Safety, immunogenicity, and cross-species protection of a plasmid DNA encoding *Plasmodium falciparum* SERA5 polypeptide, microbial epitopes and chemokine genes in mice and olive baboons *Journal of Biomedical Research* **0**, (0), 1-12.
2. Osebe, T., Mbaria, J., Yole, D., Odongo, D., Nderitu, J. & **Ochanda, H.** (2017). Bioactivity and toxicity of *Bridelia micrantha*, *Chenopodium ambrosoides* and *Ocimum americanum* plant extracts. *International Journal of Basic and Clinical Pharmacology* **6**, (1), 5-11.
3. Masakhwe C., Ochanda H., Nyakoe N., Ochiel D. & Waitumbi J. (2016) Frequency of Epstein - Barr Virus in Patients Presenting with Acute Febrile Illness in Kenya. PLoS ONE **11**(5): e0155308.
4. Mwirigi, M., Nkando, I., Olum, M., Attah-Poku, S, **Ochanda, H.**, Berberov, E., Potter, A., Gerdts, V., Perez-Casal, J., Wesonga, H., Soi, R., & Naessens, J. (2016). Capsular polysaccharide from *Mycoplasma mycoides* subsp. *mycoides* shows potential for protection against contagious bovine pleuropneumonia *Veterinary Immunology and Immunopathology* **178**, 64-69.
5. Mwirigi, M., Nkando, I., Aye, R, Soi, R., **Ochanda, H.**, Berberov, E., Potter, A., Gerdts, V., Perez-Casal, J., Naessens, J. & Wesonga, H. (2016) Experimental evaluation of inactivated and live attenuated vaccines against *Mycoplasma mycoides* subsp. *mycoides* *Veterinary Immunology and Immunopathology* **169**, 63–67.
6. Nthiw'a, D. M., Odongo, D. O., **Ochanda, H.**, Khamadi S. A. & Gichimu, B. M. (2015). *Trypanosoma* infection rates in *Glossina* species in Mtito Andei Division, Makeni County, Kenya. *Journal of Parasitology Research* (607432), 1-8.
7. Yugi, J. O., **Ochanda, H.** & Mukabana, W. R. (2015). *Zea mays* pollen for the optimization of colony rearing of *Anopheles arabiensis* Patton (Diptera: Culicidae) mosquitoes under laboratory conditions. *Journal of Mosquito Research*. **5** (3), 1-6.
8. Yugi, J. O., Otieno-Ayayo, Z. N., **Ochanda, H.** & Mukabana, W. R. (2014). The silver cyprinid *Rastrineobola argentea* as the main diet source for rearing *Anopheles arabiensis* mosquitoes. *Journal of Mosquito Research*. **4** (17), 1-6.
9. Waiganjo, N., Yole, D. & **Ochanda, H.** (2014). Anti-schistosomal activity of five plant extracts on Swiss white mice infected with *Schistosoma mansoni*. *IOSR Journal of Pharmacy and Biological Sciences*. **9**, 49-53.
10. Waiganjo, N., Yole, D. & **Ochanda, H.** (2014). Immunological responses of mice after treatment with *Ocimum americanum* hexane and *Bridelia micrantha* water plant extracts. *IOSR Journal of Dental and Medical Sciences*. **13**, 09-12.
11. Waiganjo, N., **Ochanda, H.** & Yole, D. (2013). Phytochemical Analysis of selected five plant extracts. *Chemistry and Materials Research*. **3**, 12-17.
12. Kobia, E. N., **Ochanda, H.** & Yole, D. S. (2012). The effect of immunizing Swiss white mice with snail soluble proteins and challenging them with *Schistosoma mansoni*. *The Internet Journal of Tropical Medicine* **8** (1), DOI: 10.5580/2b3f.
13. Mwirigi, M., **Ochanda, H.**, Soi, R., Wambugu, A. and Naessens, J. (2010). Effect of a monoclonal antibody on mycoplasma adherence to bovine lung cells. *East African Agricultural Forestry Journal*. **76** (4), 217-223.
14. Tonnang, H. E. Z., Nedorezov, L. V., Owino, J. O., **Ochanda, H.** & Löhr, B. (2010). Host–parasitoid population density prediction using artificial neural networks: diamondback moth and its natural enemies. *Agricultural and Forest Entomology*. **12**, 233-242.
15. Tonnang, H. E. Z., Nedorezov, L. V., Owino, J., **Ochanda, H.** & Löhr, B. (2009). Evaluation of discrete host–parasitoid models for diamondback moth and *Diadegma semiclausum* field time population density series. *Ecological Modelling*. **220**, 1735-1744
16. Tonnang, H. E. Z., Nedorezov, L. V., **Ochanda, H.**, Owino, J. & Löhr, B. (2008). Assessing the impact of biological control of *Plutella xylostella* through the application of Lotka-Volterra model. *Ecological Modelling* **220**, 60-70.

17. Wanzala, W., Kyule, N.M., Zessin K.H., Onyango-Abuje, J.A., Kang'ethe, E.K., **Ochanda, H.** & Harrison, L.J.S. (2007). Evaluation of an antigen-ELISA in the diagnosis of bovine cysticercosis in Kenyan cattle. *Parasitology Research* **100**, 539-548.
18. **Ochanda, H.** (2006) Comparison of the survival of *Theileria parva*-infected adult *Rhipicephalus appendiculatus* (Acari: Ixodidae) and their infection under simulated climate conditions in the laboratory and in the field. *International Journal of Tropical Insect Science* **26**, 101 – 107.
19. Yole, D. S., Obanda, V.O., Kithome, K & **Ochanda, H.** (2005). The effect of vaccinating *S. mansoni*-infected BALB/c mice either before or after treatment. *African Journal of Health Sciences* **12**, 65 – 77.
20. Wanzala, W., Onyango-Abuje, J.A., Kang'ethe, E.K., **Ochanda, H.** & Harrison, L.J.S. (2005). Distribution of *Cysticercus bovis* in bovine carcasses of naturally and artificially infected Kenyan cattle and its implication for routine meat inspection method. *Online Journal of Veterinary Research* **9**, 66-73.
21. **Ochanda, H.** & Young, A. S. (2003) Survival of *Theileria parva*-infected adult *Rhipicephalus appendiculatus* under laboratory and quasi-natural conditions. *Experimental and Applied Acarology* **29**, 355 – 365.
22. **Ochanda, H.**, Young, A. S. & Medley, G.F. (2003) Survival of *Theileria parva* in its nymphal tick vector, *Rhipicephalus appendiculatus*, under laboratory and quasi-natural conditions. *Parasitology* **126**, 571 – 576.
23. Wanzala, W., Onyango-Abuje, J.A., Kang'ethe, E.K., Zessin, K.H., Kyule, N.M., Baumann, M.P.O., **Ochanda, H.** & Harrison, L.J.S. (2002). Analysis of post-mortem diagnosis of bovine cysticercosis in Kenyan cattle. *Online Journal of Veterinary Research* **1**, 1-9.
24. Wanzala, W., Onyango-Abuje, J.A., Kang'ethe, E.K. **Ochanda, H.** & Harrison, L.J.S. (2002) A comparison of meat inspection method and an antigen-ELISA in the diagnosis of bovine cysticercosis in Kenyan cattle. *Journal of the Cameroon Academy of Sciences* **2 Supplement**, 265-277.
25. Wanzala, W., Onyango-Abuje, J.A., Kang'ethe, E.K. **Ochanda, H.** & Harrison, L.J.S. (2002) Serodiagnosis of bovine cysticercosis live *Taenia saginata* cysts using a monoclonal antibody-based antigen-ELISA. *Journal of the South African Veterinary Association* **73**, 201-206.
26. Musembi, S., Janoo, R., Sohanpal, B., **Ochanda, H.**, ole-Moi Yoi, O., Bishop, R. & Nene, V. (2000). Screening for *Theileria parva* secretory gene products by functional analysis in *Saccharomyces cerevisiae*. *Molecular and Biochemical Parasitology*. **109**, 81-87.
27. **Ochanda, H.**, Young, A.S., Medley, G.F. & Perry, B. D. (1998). Vector competence of seven rhipicephalid tick stocks in transmitting two *Theileria parva* parasite stocks from Kenya and Zimbabwe. *Parasitology* **116**, 539 - 545.
28. **Ochanda, H.**, Young, A. S., Wells, C., Medley, G. F. & Perry, B. D. (1996). Comparison of the transmission of *Theileria parva* between different instars of *Rhipicephalus appendiculatus*. *Parasitology* **113**, 243 - 253.
29. Young, A.S., Dolan, T.T., Mwakima, F.N., **Ochanda, H.**, Mwaura, S.N., Njihia, G.M., Muthoni, M.W. & Dolan, R.B.,(1995). Estimation of heritability of susceptibility to infection with *Theileria parva* in the tick *Rhipicephalus appendiculatus*. *Parasitology* **111**, 31 - 38.
30. Young, A.S., **Ochanda, H.**, Perry, B. D., Morzaria, S.P., Dolan, T.T., Medley, G. F. & Gettinby, G. (1994). The biology of the transmission dynamics of *Theileria parva*. In: *Proceedings of the 7th International Symposium on Veterinary Epidemiology and Economics Nairobi, Kenya, 15th -19th August 1994* (ed. Rowlands, G. J., Kyule, M. N. & Perry, B. D.), pp. 470 - 472. International Society for Veterinary Epidemiology and Economics.
31. Young, A.S., Shaw, M.K., **Ochanda, H.**, Morzaria, S.P. & Dolan, T.T. (1992). Factors affecting the transmission of African *Theileria* species of cattle by ixodid ticks. In: *First International Conference on Tick-borne Pathogens at the Host-vector Interface: an Agenda for Research, Held in Saint Paul, Minnesota, USA, 15-18 September, 1992.* (ed. Munderloh, U.G.

and Kurtti, T.J.), pp. 65-70. Saint Paul, Minnesota USA: University of Minnesota College of Agriculture.

32. **Ochanda, H.**, Young, A.S., Mutugi, J.J., Mumo, J & Omwoyo, P.L. (1988). The effect of temperature on the rate of transmission of *Theileria parva parva* infection to cattle by its tick vector, *Rhipicephalus appendiculatus*. *Parasitology* **97**, 239 - 245.

Updated 24th May, 2017.

Prof. Horace Ochanda.