

CURRICULUM VITAE.

- **NAME.** DR. D.K.MWANGI.
- **DATE OF BIRTH.** April, 1950.
- **MARITAL STATUS.** Married with four children.
- **NATIONALITY.** Kenyan.
- **CONTACT ADDRESS.** Department of Veterinary Anatomy,
University of Nairobi.
P.O BOX 30197
NAIROBI.

- **EDUCATION.**

- **SCHOOLS ATTENDED**

YEAR	SCHOOL	CERTIFICATE AWARDED.
1965	Isiolo County Primary School.	Kenya Primary Education Certificate.
1966	Marsabit Secondary School.	
1967-1969	Kenyatta College S.E.D	East African Certificate of Education
1970-1971	Kenyatta College H.S.E.D	Higher School Certificate.

- **COLLEGES.**

1972-1976	Faculty of veterinary medicine.	Bachelor Degree in Veterinary Medicine
1977-1979	Faculty of Veterinary Medicine. University of Bern, Switzerland.	Doctoral Degree in Veterinary Medicine
1989-1992	Faculty of Medicine. University of Liverpool, England.	Doctor of Philosophy in Veterinary

Medicine

WORK EXPERIENCE.

- 2000- 2005-Served as a Senior Lecturer in the Department of Veterinary Anatomy (University of Nairobi).
- 1985-1999 Served as a Lecturer in the Department of Veterinary Anatomy (University of Nairobi).
- 1982-1984 Served as a dairy farmer and private veterinary surgeon
- 1979-1981 Served as a veterinary surgeon in International Laboratory for Research in Animal Diseases. My duties include management of the research animals farm, animal production and health, experimental surgery and research projects support.
- 1976-1977 Served as a veterinary officer with the Government of Kenya for one year. This position involved administration, disease control, clinical work, extension work and farm management.

8. SCHOLARSHIPS/FELLOWSHIP.

- 1972 Kenya Government Scholarship: Financial support for my studies in University of Nairobi.
- 1977 Swiss Federal Scholarship: Financial support for my Doctoral studies in University of Bern..
- 1988 Commonwealth Scholarship: Financial support for my Doctoral studies in University of Liverpool .
- 1998 Roche Research Foundation: Financial support in a collaborative project on study of dendritic cells during my sabbatical in Anatomisches Institute der Universtat Bern.

9. MEMBERSHIP.

- Kenya Veterinary Association.
- Kenya Society of Neuroscientist.
- Society of Neuroscientists of Africa.
- International Society for Neuroscience.

10. ADVANCEMENT OF SCIENCE.

- Taught Stereological methods to scientists in pathology laboratory in the Institute of Primate Research.
- Organisation of regular monthly seminars on neuroscience related topics for Kenya Society of Neuroscientist.
- Organisation of "Brain Awareness Seminars to Members of public, primary and secondary schools students in collaboration with the Museums of Kenya.
- I am a founder member and the chairman of Kenya Society of Neuroscientists.

11. POST GRADUATE TRAINING.

- a) Participated in Master of Science students who have registered in the Department since 1988.
- b) Supervised two PhD students:
 - Dr S. K. Gitahi Studied **Funtional and Morphological characterization of particle-dendritic cell interaction.** PhD Thesis 2001.
 - Dr A. N Makanya Studied **Postnatal Mammalian lung development; The normal events in a Marsupial, the Quakka wallaby (*Setonix brachyurus*) and the effects of glucocorticoid treatment in a Eutharian, the rat (*Rattus norvegicus*).** PhD Thesis 2001.

12. RESPONSIBILITIES TO COMMUNITY.

- Served as a member of Board of Trustees of University of Nairobi Pension Scheme (2002-2005).
- Refurbished and furnished ICIPE complex garage for use by University Staff Christian Union.
- A member of Deaconary, in Jericho Baptist Church.

13. CURRENT RESEARCH ACTIVITY.

- Comparative morphometric study of the mammalian cerebellum in different animal species.

14. THESES.

- Mwangi D.K. (1979) *Maximum oxygen consumption capacity of wild Kenyan ruminants.* Dr. Vet. Med. Thesis of Universitat Bem.
- Mwangi D.K. (1991) *The effects of propylthiouracil induced hypothyroidism in the developing rat cerebellum (with an element of undernutrition): A Morphometric Study:* PhD Thesis University of Liverpool.

15. PUBLISHED ABSTRACTS,

- Mwangi D.K. (1993) Cerebellar hypoplasia in Wistar rats: A morphometric study. African Journal of Neurosciences. 1 (1) 69.
- Gehr P, D. Mwangi, A. Muller, S. Sehovic, V. Haussener und ER. Weibel. (1979). Ultrastruktur und morphometrische Analyse der Diffusionskapazität einiger Antilopen- und Gazellenlungen. Acta Anat. 115, 105

16. PRESENTATIONS IN CONFERENCES.

- Mwangi D.K. and Kiama S.G. 2004. Estimation of total number of particles in an organ

or structure: A stereological method: Biennial Scientific Conference, Faculty of Veterinary Medicine, University of Nairobi,

- Kiama S.G., Maina J.N., Weyrauch K.D. and Mwangi D.K. 2004. The morphology of the pecten of the ostrich *Struthio camelus*. Biennial Scientific Conference, Faculty of Veterinary Medicine, University of Nairobi.
- Kiama S.G., Bhattachargee J., Kiama T.N., Mwangi D.K. 2002 A scanning electron microscope study of pigment distribution in pecten of the domestic fowl and eagle. Biennial Scientific Conference, Faculty of Veterinary Medicine, University of Nairobi.
- Mwangi D.K., Farah I., Chai D., Ndungu M. and Hassanali J. 2002 The vascular volume distribution in the cerebral gray matter of Baboon (*Papio anubis*): A morphometric study. Biennial Scientific Conference, Faculty of Veterinary Medicine, University of Nairobi
- Mathieu A.I., H. Hoppler, R. Krauer, H. Claassen, P. Gehr, A. Muller, D. Mwangi, V. Haussener and E.R. Weibel. 1978. Morphometric analysis of skeletal muscles and lung parenchyma in various mammalian species. I le Entretiens de physiopathologie respiratoire, Nancy, France

17. MANUSCRIPTS SUBMITTED FOR PUBLICATION.

- Mwangi D.K. and Kiama S.G. 2005. A Review: Estimation of total number of particles in an organ. The Kenya Veterinarian.

18. PUBLICATIONS.

1. Mwangi, D.K., Farah, I., Chai, D., Ndungu, M. and Hassanali J. (2004). The vascular volume distribution in the cerebral gray matter of Baboon (*Papio Anubis*): A morphometric study. *The Kenya Veterinarian* 26; 59-61.
2. Kiama S.G., Bhattacharjee J., Kiama T.N. and Mwangi, D.K. (2004). A The scanning electron microscope study of pigment distribution in pecten oculi of the Domestic fowl and Eagle owl. *The Kenya Veterinarian* 26; 43-50. *
3. Mwangi D.K., Macharia R., Moilo J. and Ombundo P. (2003) The effect of Decamethonium Bromide on developing mosquito larvae. *International J. Biochemiphysics*. 11&12; 3, 55-58.
4. Mwangi, D.K. (2001). Cerebellar parameters in developing 15 day rat pups treated with propylthiouracil in comparison with 5 and 24 day old. *East African medical Journal* 78(6) 322-326.
5. Makanya, A.N., Self T.J., Warui C.N. and Mwangi D.K. (2001). Gut morphology and morphometry in the epaulettted Wahlbergs fruit bat (*Epomophorus wahlbergi*, Sundevall, 1846), *Acta Biologica Hungarica*. 52 (1) 75-89.
6. Makanya, A.N., M.P. Sparrow, C.N. Warui, and D.K. Mwangi, and P.H. Burri (2001). Morphological analysis of postnatally developing marsupial lung: the Quoka Wallaby. *Anatomical Record* 262; 253-265.
7. Mwangi, D.K. and Warui, C.N. (2000). Stereological analysis of 24 day old rat pups with propylthiouracil induced hypothyroidism. *East African Medical Journal* 77(4) 221-227.
8. Mwangi D.K. (1998) Effects of propylthiouracil induced hypothyroidism in developing rat cerebellum: Comparison of cerebellar parameters in five day old normal and treated rat pups. *East African Medical Journal*. 75 (10): 597-603.
9. Warui C.N., R.G. Macharia, D.K. Mwangi, P.W. Macheru and J. Moilo. (1998) Observations on the morphology of the cloacal region of the African Ostrich (*Strathio camelu mussaicus*). *Kenya Veterinary Journal*, 23 (3) 71-74.

10. Moilo J., D.K. Mwangi and C.N. Warui (1998) Electrophysiological responses of female *Anopheles gambiae sensu stricto* (Diptera: culicidae) to pyrethroid pesticides and host related semiochemicals. Kenya Veterinary Journal, 23 (3) 107-110..
11. Weibel E.R., P. Gehr, L.M. Cruz, A.E. Muller, D.K. Mwangi and V. Haussener (1981) IV. Morphometric estimation of pulmonary diffusing capacity; critical evaluation a new sampling method. Respiration Phys. 44: 39-59.
12. Gehr P, D.K. Mwangi, A. Amman, G.M.O. Maloiy, C.R. Taylor, and E.R. Weibel (1981) Design of the mammalian respiratory system V. Scaling morphometric pulmonary diffusing capacity to body mass; wild and domestic mammals. Respiration Phys. 44: 61-86
13. Gehr P, D. Mwangi, A. Muller, S. Sehovic, V. Haussener und E.R. Weibel. (1979). Ultrastruktur und morphometrische Analyse der Diffusionskapazität einiger Antilopen- und Gazellenlungen. Acta Anat. 115, 105

REFEREES

- Prof. Peter Gehr.
Dpt of Anatomy University of Bern
Buhlstrasse 26 3000 Bern
Switzerland
- Prof. Timothy Maitho,
Dpt of Public Health, Pharmacology and Toxicology, University of Nairobi,
P.O Box 30197, Nairobi,
Kenya.
- Prof. Peter G. Kioi,
Dpt of Human Physiology, University of Nairobi,
P.O Box 30197, Nairobi.

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