

Prof Francis Mwihurih Njeruh

BVM, MSc., PhD (Nairobi), MBA(Moi), Dip (KIM)

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RESUME

Bio data

Date of Birth: 18th August, 1954

Marital Status: Married with children

Current Position: Deputy Vice Chancellor (Administration, Planning and Development) – Jomo Kenyatta University of Agriculture and Technology.

(I) Education

June, 2003 - June, 2004 - Diploma in Business Management, Kenya Institute of Management

2005-2006 - Master of Business Administration (MBA), Moi University

1975 - 1979 - Degree of Bachelor of Veterinary Medicine.

1979 - 1982 - MSc. in Public Health.

Title of thesis: Characterization of Hydatid Cyst Antigens.

1985 - 1988 PhD. in Public Health funded by National Council of Research, Science and Technology and African Medical Research Foundation (AMREF).

PhD Title: "Purification and Characterization of a Hydatid Cyst Fluid Antigen and Investigation into the Possible Application of the Antigen in Serodiagnosis of Hydatid Disease in Man and Livestock".

1993 - 1994 Selected by J. William Fulbright Foreign Scholarship Board for a Senior Scholars Fulbright Award. Developed monoclonal antibodies to the thermo-stable Antigen of Hydatid cyst fluid. **The work on these antibodies was recognized as a tangible innovation and patented by North Carolina State University. A basis for developing a diagnostic kit for hydatid disease in man.**

(II) Employment History

1979 Employed as a Tutorial Fellow, Department of Public Health, Pharmacology and Toxicology, University of Nairobi.

1982 Promoted to position of Lecturer, Department of Public Health, Pharmacology & Toxicology

1987 Promoted to Senior Lecturer, Department of Public Health, Pharmacology and Toxicology

1997 Promoted to Associate Professor, Department of Public Health, Pharmacology and Toxicology

1998 Chairman, Department of Public Health, Pharmacology and Toxicology

2006 to date Deputy Vice Chancellor in charge of Administration, Planning and Development – Jomo Kenyatta University of Agriculture and Technology

(III) Short courses attended

2012	Management Training Workshop. VAS Consultants Ltd. , Mombasa
2010	Continuing Legal Professional Development. Council of Legal Education. Nairobi
2010	Strategic Leadership and Change Management for Directors of State corporations, KIA
2009	Public Health Emergency Preparedness and Response. Cardiff Metropolitan Uni. Nairobi
2008	Leadership and Management Capacity Development. Kenya Institute of Management

(iv) Research

Has carried out Research in various fields of Public Health namely:-

- Research into serodiagnosis of hydatid disease in livestock and man since 1979. My research work has yielded extremely useful results in diagnosis of hydatid disease in man in Kenya. Due to my work, the theory which was previously propagated that Turkana people do not mount adequate response to hydatid cyst infection has been discarded. The Thermo-stable antigen of hydatid cysts is now antigen of choice in serodiagnosis of hydatid disease in Kenya. I have been involved in collaborative research in hydatid disease with AMREF and Faculty of Medicine, Department of Medicine, Kenyatta National Hospital Campus of University of Nairobi.
- Research in cooked meat species
- Research in microbiological and chemical quality of borehole water in City of Nairobi and its environs
- Research in antibiotic residues in meat.
- Research in extraction of antimicrobial agents from plants of importance in Ethnomedicine.

(V) Administrative Duties

- **Chairman**, Time-tabling Committee of Faculty of Veterinary Medicine - March, 1995 to-2006
- **Representative** of Faculty of Vet. Medicine, in the Senate (University) timetabling committee, April 1995 to-July 2006.
- **Member**, Entrepreneurial and Human Resource Development Committee of the College of Agriculture and Veterinary Sciences - 8/8/95 to-July, 2006.
- **Co-ordinator** of Faculty Proficiency Examinations for external BVM degree holders from March, 1995 - 1997.
- **Co-ordinator**, for Meat Inspection Course, Dept. of Public Health, Pharmacology and Toxicology, 1985 - 1990.
- **External Examiner** for 3rd year (8.4.5.), Dept. of Pathology and Microbiology; Special/supplementary examination, 1995 and many other occasions.
- **Acting Chairman of Department** of Public Health, Pharmacology and Toxicology from 9th - 30th September. 1996.
- **Chairman**. Curriculum Committee of Faculty of Veterinary Medicine, February. 1996 - August 1998.
- **Member**. Curriculum Committee of Faculty of Veterinary Medicine 1996 to-July, 2006.
- **Chairman** Faculty of Veterinary Medicine. Zoonoses Research Group January 1997 to-July,2006.
- **Chairman**. Meat Technology Centre Development Committee. 1997 to-July, 2006.
- **Chairman/Head of Department** of Public Health. Pharmacology and Toxicology July 1998 - August 2004.
- **Member** of National Environmental Committee on Standards and Enforcement. A statutory Committee under the Environmental Co-ordination Act. 2000 - 2006
- **Senate representative**. University of Nairobi. to the Interuniversity Council of East Africa under the revived east African Community (1999 to-2006).
- **Chairman/Convenor** of Committee of Faculty of Veterinary Medicine. to develop MoU between University of Nairobi and CAPE/IBAR October 2000 to 2006.
- **Member** of the Board of Governors of Nairobi Technical Institute. appointed by Government_in March. 2002 to 2007.
- **Member**. National Committee on Food Standards. appointed by KEBS in February. 2000 to 2006.
- August. 2002 Elected **Vice-President** of Local organizing committee for the 21st International Congress on hydatidology held in Nairobi on 20 - 24th August. 2004.
- In August. 2002: **Elected member** of the Scientific Committee for the International Congress on hydatidology held in Nairobi on 20 - 24th August, 2004.

- **Project manager.** and Secretary to the Management Committee. Meat Technology Centre in Dec.2002-July, 2006.
- Appointed **Deputy Vice-Chancellor, Administration, Planning & Development** by the Council of Jomo Kenyatta University of Agriculture and Technology on 18th July, 2006 to date.
- Appointed Acting Vice Chancellor of JKUAT on many occasions.

(VI) Fundraising

- (i) 1985-1987 – For PhD Studies
 - African Medical Research Foundation (AMREF), Kshs. 300,000
 - National Council of Science and Technology, Kshs. 575,000
- (ii) 1993-1994 - Research funding by Fullbright. US\$ 60,000
- (iii) 1997-2000 - Deans Committee Allocation, University of Nairobi Kshs. 250,000
- (iv) 2002-2004 - Deans Committee Allocation. University of Nairobi. Kshs. 312,000
- (v) 2005-2006 - Master of Business Administration, Jomo Kenyatta University of Agriculture & Technology. Kshs. 200,000
- (vi) 2008 to date - Research Proposal on Marketing of eggs. Jomo Kenyatta University of Agriculture & Technology. Kshs. 4.5 million

(VI) Supervision of Post-graduate and undergraduate students

Successfully supervised twenty **six (26)** Postgraduate students in the field of Public Health at MSc level and **seven (7)** PhDs.

(VII) Publications in refereed journals

1. **NJERUH, F.M., GATHUMA, J.M., and TUMBOH-OERI, A.G. (1986).** Diagnosis of human hydatidosis in Kenya I. The role of indirect hemagglutination test (IHA) based on a thermo-stable antigen. E. Afri. Med. J. 63:311 - 317.
2. **NJERUH, F.M., GATHUMA, J.M. and TUMBOH-OERI, A.G. (1986).** Diagnosis of human hydatidosis in Kenya II. An enzyme-linked immunosorbent assay (ELISA) based on a thermo-stable antigen. E. Afri. Med. J. 63: 318 - 321.
3. **NJERUH, F.M. and GATHUMA, J.M. (1987).** Serodiagnosis of livestock hydatidosis by the use of indirect hemagglutination test (IHA) and the enzyme-linked immunosorbent assay (ELISA). Bull. An. Hlth. Prod. **35**: 124 -129.
4. **NJERUH, F.M., GATHUMA, J.M., OKELO. G.B.A and TUMBOHOERI, A.G. (1989).** The amino acid and fatty acid composition of the thermostable lipoprotein ("antigen 880") of hydatid cyst fluid. East Afr. Med. J. 66: 219 - 230.
5. **NJERUH, F.M., GATHUMA, J.M., TUMBOH-OERI, A.G. and OKELO, G.B.A. (1989).** Purification and partial characterization of a thermo-stable lipoprotein ("Antigen 880") of hydatid cyst fluid (HCF). East Afr. Med. J. 66: 507 - 515.
6. **NJERUH, F.M., OKELO, G.B.A. and GATHUMA, J.M. (1989).** Usefulness of indirect hemagglutination (IHA) test and enzyme-linked immunosorbent assay (ELISA) in the diagnosis of human hydatidosis. East.Afr. Med.J. 66: 310 - 315.
7. **NJERUH, F.M., GATHURA, P.B. and GATHUMA, J.M. (1989).** Application of enzyme-linked immunosorbent assay (ELISA) based on two E. granulosus antigens in the diagnosis of human hydatidosis. East. Afr. Med. J. 66: 738 - 744.
8. **NJERUH, F.M., (1988).** Distribution and diagnosis of hydatid disease in Kenya. The Kenya Veterinarian 12: 53 - 55.
9. **NJERUH, F.M., GATHUMA, J.M., OKELO, G.B.A. and TUMBOH-OERI, A.G. (1989).** Diagnosis of hydatid disease in surgically confirmed cases by the use of the indirect hemagglutination test based on a thermo-stable lipoprotein and an unfractionated hydatid cyst fluid. Ann Trop. Med. Parasitol. 83: 299 - 303.
10. **GATHURA, P.B., GATHUMA, J.M., OKELO, G.B.A and NJERUH, F.M. (1990).** A ten-year review of human hydatid cases seen at Kenyatta National Hospital (Kenya). Discovery and Innovation 2: 41 - 44.
11. **NJERUH, F.M., GATHUMA, J.M and TUMBOH-OERI, A.G. (1990).**

An enzyme-linked immunosorbent assay (ELISA) for livestock hydatidosis based on partially purified thermo-stable antigen. *Bull. Anim. Hlth. Prod.* **38**:7 -10.

12. **GITHUI KABA, NJERUH, F.M. and KAYIHURA, M. (1991)**. An assessment of microbiological quality of borehole water in the suburbs of the city of Nairobi, Kenya. *East. Afri. Med.* **1**. **67**: 105 - 110.
13. **GACHERU, D.N., KANG'ETHE, E.K., KABURIA, H.F.A. and NJERUH, F.M. (1994)**. Sandwich enzyme immunoassay for specialization of cooked meats and for detecting trace amounts of adulterants in phylogenically related species. *A. Afr. Agric. For J.* **59**: 205 - 212.
14. **KHALID, M.S., GATHURA, P.B., KYULE, M.N., NJERUH, F.M., KITALA, P.M. and KAGIKO, M.M. (1998)**. Assessment of microbiological quality of drinking water for boreholes and domestic tanks in Kikuyu Division of Kiambu District. *The Kenya Veterinary Journal* **23**: 42 - 43.
15. **LANGAT, K.C., NJERUH, F.M., GATHURA, P.B. and KYULE, M.N. (1998)**. A survey on the parasites of the swine and their prevalences over a ten year period. *The Kenya Vet. Journal* **23**: 166 - 169.
16. **NJERUH, F.M., GATHUMA, J.M., GATHURA, P.B., KYULE, M.N. and HAMMERGERG, B. (1998)**. The application of monoclonal antibodies in identification of a hydatid cyst antigen found in boiled sera from individuals with hydatid disease and its significance in Diagnosis of hydatid disease caused by *E. granulosus* in man. *The Kenya Veterinary Journal* **23**: 200 - 204.
17. **GATHURA, P.B., KYULE, M.N., KAGIKO, M.M., OGARA, O.W., NJERUH, F.M. and KITALA, P.M. (1998)**. Water supply and quality control in Kenya: the past, present and future. *The Kenya Veterinary Journal* **23**: 47 - 49.
18. **MURIUKI, F.K., OGARA, W.O., NJERUH, F.M. and MITEMA, S.E.(2001)**. Tetracycline residue levels in cattle meat from Nairobi slaughterhouses, Kenya. *Korean Vet. Journal* **2**.: 97 - 101.
19. **J.K. CHEMULITI, P.B. GATHURA, M.M. KYULE and F. M. NJERUH (2002)**. Bacteriological qualities of indoor and outdoor drinking water in Kenya. *East Afri. Med. J.* **79**: 271 - 273.
20. **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.
21. **NDIRANGU, P.N., NJERUH, F.M., GATHURA, P.B., KYULE, M.N.**
The prevalence of hydatidosis in livestock in Kenya. *The Kenya Veterinary Journal* **26**:73-77
22. **NJANJA, J.C., GATHUMA, J.M., NJERUH, F.M. and KINUTHIA, R.N. (2003)**. Perception of livestock production system and opportunities for improvement in southwestern Marsabit, Kenya. *Livestock Research for Rural Development.* **15**:1-16
23. **MTAKA, M., GATHURA, P.B., NJERUH, F.M., MBARIA, J.M., KITALA, P.M., KABURIA, H.K.A, GITAHU, J.N., MACHARIA, J.K. AND KAMAU, J.M.**
An assessment of the presence of *E.Coli* in the roof-collected rainwater from some areas around Nairobi. *The Kenya Veterinary Journal* **26**: 97-102.
24. **J.G. KARIUKI, K.J. MAGAMBO, M.F. NJERUH, E.M. MUCHIRI, S.M. NZIOKA & S.KARIUKI.** Effects of hygiene and Sanitation interventions on reducing diarrhea prevalence among children in resource constrained communities: Case study of Turkana District, Kenya (2012) *Journal of Community Health*
25. **J.G. KARIUKI, K.J. MAGAMBO, M.F. NJERUH, E.M. MUCHIRI, S.M. NZIOKA & S.KARIUKI.** Changing mother's hygiene and sanitation practices in resource constrained communities: Case study of Turkana District, Kenya (2012) *Journal of Community Health*
26. **NDIRANGU, P.N., NJERUH, F.M., GATHURA, P.B., KYULE, M.N.**
The potential role played by various livestock intermediate hosts in the transmission of hydatidosis in Kenya. In press. *Kenya Vet. Journal.*
27. **LANGAT, K.C., NJERUH, F.M., GATHURA, P.B., KYULE, M.N.** Pig nematodes of Public Health importance in Kenya. In press. *Bulletin of Animal Health and Production in Africa.*

(VIII) Papers presented in conferences and conferences attended

1. **NJERUH, F.M. AND LINDQVIST, K (1982)**. Serodiagnosis of hydatidosis using a defined antigen. *Proceedings of 2nd KEMRIKETRI Annual Scientific Conference.* Page 26 - 30.

2. **MACPHERSON, C.N.L., WACHIRA, T., GATHURA, P.B., NJERUH F.M., ZEYHL, E., REOMIG, R., MW ANGI, M., REES, P.J., GATHUMA, J.M. CHERUIYOT, H. and KINOTI, G. K (1985).**
Echinococcosis: Research for appropriate control techniques for Turkana Proceedings of the 6th Annual KEMRI/KETRI Scientific Conference pages 230 - 228.
3. **NJERUH, F.M., GATHUMA, J.M. and TUMBOH-OERI, A.G. (1986).** A comparative study of indirect hemagglutination (IHA) test and enzyme-linked immunoassay (ELISA) in the diagnosis of hydatidosis in man. Proceedings of the 7th Annual KEMRI/KETRI Scientific Conference pages 125 - 129.
4. **GATHURA, P.B., NJERUH, F.M. GATHUMA, J.M. and OKELO, G.B.A (1988).** A comparative study of enzyme-linked immunoassay (ELISA) using the two most immuno-reactive antigens of hydatid fluid. 9th KEMRI/KETRI Conference. February, 1988.
5. **NJERUH, F.M., GATHUMA, J.M., OKELO, G.B.A. and TUMBOHOERI, AG. (1988).** A comparative study of Enzyme-linked immunosorbent assay (ELISA) and indirect hemagglutination (IHA) test based on a thermostable lipoprotein in diagnosis of human hydatidosis in Kenya, 12th International Congress in Trop Med. and Malaria, Amsterdam, 18th - 23rd September 1988. Abstract No. Fr p-7-1.
6. **OKELO, G.B.A., NJERUH, F.M. and GATHUMA, J.M.(1988).** A study of the diagnostic value of " Antigen 880" as compared to "Arc 5" in the diagnosis of human hydatid disease in surgically confirmed cases in Kenya. 12th International Congress in Trop. Med. And Malaria, Amsterdam, 18th-23rd September. Abstract No. Frp-7-19.
7. **GITHUI KABA, NJERUH, F.M. and KAYIHURA, M. (1990).** An assessment of the microbiological quality of borehole water in Kenya, 11th Annual KEMRI/KETRI Scientific Conference, February 1990.
8. **LANGAT, K.C., NJERUH, F.M., GATHURA, P.B. and KYULE, M.N. (1998).** A survey of the parasites of the swine and their prevalences over a 10 year period of Kenya. Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, Kenya, 5th – 7th August, 1998.
9. **NJERUH, F.M., GATHUMA, J.M., GATHURA,P.B., KYULE,M.N. and HAMMERBERG,B. (1998).** The application of monoclonal antibodies in identification of a hydatid cyst antigen found in boiled sera from individuals with hydatid disease and its significance in diagnosis of hydatid disease caused by *E. granulosus* in man. Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, Kenya, 5th – 7th August, 1998.
10. **KHALID, M.A.R., GATHURA, P.B., KYULE, M.N., NJERUH, F.M., KITALA, P.M. and KAGIKO,M.M. (1998).** An assessment of the bacteriological quality of drinking water from boreholes and domestic tanks in Kikuyu District of Kiambu District, Kenya. Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, Kenya, 5th – 7th August, 1998.
11. **GATHURA, P.B., KYULE,M.N., KAGIKO, M.M. OGARA, O.W. NJERUH, F.M. and KITALA, P.M. (1998).** Water supply and quality control in Kenya: the past, present and future. Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, Kenya, 5th-7th August, 1998.
12. **NDIRANGU, P.N., NJERUH, F.M., GATHURA, P.B., KYULE, M.N.** The prevalence of hydatidosis in livestock in Kenya. Biennial Conference of the Faculty of Veterinary Medicine, University of Nairobi, Kenya, 30th – 31st August, 2000.
13. **NDIRANGU, P.N., F.M., GATHURA, P.B., KYULE, M.N.** The potential role played by various livestock intermediate hosts in the transmission of hydatidosis in Kenya. Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi, 30th-31st August, 2000
14. **MTSANGI, M., GATHURA, P.B., NJERUH, F.M., MARIANI, J.M., KITALA, P.M., GITANI, J.N., MACHARIA, J.K. and KAMAU, J.M.** An assessment for the presence of fecal *E. coli* in the roof-collected rainwater from some areas around Nairobi. Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi. 7th - 9th August, 2002.
15. **KITHUKA, J.M., NJERUH, F.M., MAINGI, N. and OMBUI, J.N.** The Prevalence and Economic Importance of fasciolosis in cattle, sheep and goats in Kenya. Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi. 7th - 9th August, 2002.
16. **KITHUKA, J.M., NJERUH, F.M., MAINGI, N. and OMBUI, J.N.** Relative occurrence of *Fasciola* species in cattle, sheep and goats slaughtered at Dagoretti slaughterhouse in Kenya Biennial Scientific Conference of the Faculty of Veterinary Medicine, University of Nairobi. 7th - 9th August, 2002.

(IX) Academic activities outside of Nairobi University

April, 1995 - 1998 - Nominated External Examiner by the Senate of Sokoine University, Morogoro, Tanzania. I was an external examiner in Department of Medicine, Faculty of Vet. Medicine.

(X) Membership to professional organizations and clubs

1. Fellow of the Royal Society of Tropical Medicine and Hygiene (London).
2. Member of the Kenya Veterinary Association (KVA).
3. Full member institute of Human Resource Management (IHRM), 2013
4. Member Public Service Club
5. Member, Karen Country Club

(XI) Social activities

1985 - 1987	Chairman, Finance and Entertainment Committee of Kilimani Primary School, Parents Teachers Association (PTA).
1989 -1991	Chairman, Entertainment Committee of Karen C Primary School (PTA).
1992 - 1993	Vice-Chairman PTA Karen C Primary School.
1991 -1993	Co-opted member of PTA Committee of St. George's Girls Secondary School, Nairobi, in-charge of agricultural projects.
July 1995 - 1999	Chairman, PTA of Karen C Primary School, Nairobi.
July 1995 - 1997	Member of PTA Committee of Moi Isinya Girls Secondary School, Kajiado District.
June 1995 - 1998	Chairman, Rongai Catholic Church neighborhood Security Committee.
Sept 1996 - Aug 97	Member of the PTA Committee of Lenana High School Nairobi, in-charge of agricultural projects.
Mar. 1997 – 1998	Member of PTA Committee of St. George's Girls Secondary School.
Aug. 1997 -1999	Vice-Chairman, PTA of Lenana High School.
Dec. 2010- to date	Chairman, Greater Ongata Rongai Welfare Association

(XII) Referees

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