

CURRICULUM VITAE

NAME: Dr. Gabriel G. Mbugua.
DATE OF BIRTH: 15.03.1949
PLACE OF BIRTH: Kiambu District, Central Province (Kenya).
MARITAL STATUS: Married with three children.
Female 35 Years, Male 31 Years, Female 30 Years.
PROFESSION: Consultant Physician/Microbiologist
Chief Medical Research Officer, Kenya
Medical Research Institute
QUALIFICATIONS: M.B.B.S., M.P.H., PhD.
PERSONAL ADDRESS: P.O. BOX 21726 - 00505, Nairobi, Kenya.
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EDUCATIONAL BACKGROUND:

University Education:

1991 - 1995 University of Nairobi Medical School,
Department of Medical Microbiology.

Degree obtained:

Doctor of Philosophy (PhD) in Medical
Microbiology.

Title of thesis

**Morbidity patterns and treatment effects
in human *Schistosomiasis mansoni* in
Machakos and Makueni Districts, Kenya.**

1981 - 1983

Loma Linda University, School of Health,
California, U.S.A.

Degree obtained:

Master of Public Health (M.P.H.).
Emphasis on Epidemiology and
International Health.

1970 - 1975

Rajasthan University, Sawai Mansingh
Medical School, Jaipur, India.

Degree obtained:

Bachelor of Medicine and Bachelor of
Surgery
(M.B.B.S.).

Other courses attended:

December-1983

June - Sept 1990

A ten-weeks international course on the "Clinical Research Methodology Course" in San Francisco, California, U.S.A. Sponsored by the Centers for AIDS Prevention Studies (CAPS), University of California, San Francisco Campus.

Aug - Sept 1993

A four-weeks international course on "data handling and Biostatistics: Use of SPSS/PC and Computer Graphics" in Nairobi, Kenya.

Jan 1994 - Mar 1995

One year fellowship at Danish Bilharziasis Laboratory, Copenhagen, Denmark.

EMPLOYMENT:

a) Present employment -

Centre for Microbiology Research (CMR), Kenya Medical Research Institute (KEMRI).

DATE OF RESUMPTION OF DUTY FROM LEAVE OF ABSENCE:

1ST August, 2005

b) Previous employments:

i) Ministry of Health, Botswana:

Kgatlung District Council, Botswana.

DATE OF APPOINTMENT: 13TH JULY, 2002.

POSITION: Public Health Specialist 1

ii) Centre for Microbiology Research (CMR), Kenya Medical Research Institute (KEMRI).

DATE OF APPOINTMENT: 1ST December, 1985

Position: Chief Research Officer (2002- to date)

Director of the Centre (CMR) 1998-2002)

iii) Ministry of Health (Kenya):

1976-November, 1985.

Left as a Senior Medical Officer of Health to join Kenya Medical Research Institute.

SEMINARS, CONFERENCES AND WORKSHOPS:

1997: National Workshop on Emergence and Surveillance of

Antimicrobial Resistance and Rational use of Antimicrobial drugs, Nyeri, Aberdares Country Club, February 3rd-5th, 1997.

- 1997:** Participated in Public Health Assessment, for Rehabilitation of Health Facilities - Central and Rift Valley Provinces - Government of Kenya (GOK) / African Development Bank (ADB), November 1996 to February, 1997.
- 1997:** Workshop on Schistosomiasis Morbidity, Nyeri, Aberdares Country Club, Kenya, November 3rd-6th, 1997.
- 1999:** 2ND National Workshop on Antimicrobial Drug Susceptibility surveillance And Monitoring, Kenya 7-9th February, 1999.
- 1999:** 20TH African Health Sciences Congress And 20TH Anniversary Celebration of the Noguchi Memorial Institute for Medical Research, Ghana 19-23rd, 1999.
- 1999:** Themes for Workshop on Setting Priorities on HIV/AIDS Research in the Areas of Epidemiology, Public Health and Bio-Medical Issues, Kenya, Nairobi, 12-13th April, 1999.
- 1999:** National HIV/AIDS Research Agenda Setting Workshop, Mbagathi College of Communications, Nairobi 19TH July, 1999.
- 2000:** Harmonized Inter-Laboratory Proficiency Testing Scheme (HIPTS) - Safari Park Hotel, Nairobi 24th March, 2000.
- 2000:** The 4th International Conference on Social Science in Health, University of Botswana, Gaborone, Botswana, 7-11th August, 2000.
- 2001:** A course on emerging and re-emerging infectious diseases - special emphasis on malaria and HIV/AIDS. Telkom (KCCT) Mbagathi Campus, Nairobi, Kenya, 22nd September - 4th October, 2001 (was a facilitator).
- 2002:** Workshop on program design and course organization for Global Parasitic Diseases Control in East Africa, Silver Spring Hotel, Nairobi, Kenya, 4th -15th , February, 2002.
- 2002:** Third Global Forum on Bio-ethics in Research and the Pan-African Bio-ethics Initiative (PABIN) in Cape Town, South

Africa, 21st -25th February, 2002.

2002: Training program on HIV/AIDS antiretroviral therapy.
National Institute of Health (NIH), Bethesda, USA, 21st
April-May, 2002.

EDITORSHIP/AUTHORSHIP TO BOOKS:

**Butterworth, A.E., Corbett, E.L., Dunne, D.W., Fulford, A.J.C.,
Gachuhi, R.K., Klumpp, R., Mbugua, G., Ouma, J.H., Arap
Siongok, T.K. and Sturrock, R.F.** (1989). Immunity and
morbidity in human schistosomiasis. In: *New Strategies in
Parasitology. Edinburgh: Churchill Livingstone.* pp. 193-221.

ADMINISTRATIVE RESPONSIBILITIES:

Director of the Centre for Microbiology Research (CMR) 1998-2002.
Chairman, Epidemiology Programme Committee
Secretary, Sexually Transmitted Diseases Committee.

Honorary Lecturer:

1. Kenyatta University - started MPHE Programme between 1999 and 2000. Supervised MSc and PhD students.
2. Jomo Kenyatta University of Agriculture - Have been lecturing Epidemiology to MSc students since 2006. Have supervised MSc and PhD students to completion of their studies and I still have some students presently.
3. Mt. Kenya University - Have been lecturing undergraduate BSc students in clinical medicine (Epidemiology, Tropical Medicine and Sexually Transmitted Diseases) since 2010.

MEMBERSHIP TO PROFESSIONAL SOCIETIES:

Sexually Transmitted Diseases Programme Committee
(K.E.M.R.I.) - Secretary.

Schistosomiasis Programme Committee (K.E.M.R.I.) - member.

Epidemiology Programme Committee (K.E.M.R.I.) - Chairman

National AIDS Epidemiology subcommittee - member.

International AIDS Society - member.

Social Science and Medicine Africa Network (Soma-Net) - member.
Network of AIDS Researchers of Eastern and Southern Africa (NARESHA) - member.

Kenya Medical Association (KMA) - member.

Scientific Steering Committee (SSC), KEMRI - member.

Infections Control Association of Kenya (ICAK) - member.

Pan-African Bioethics Initiative (PABIN) - member

OTHER ACHIEVEMENTS:

- 1983** Review of the Leishmaniasis situation in Kenya "A cadastre report to WHO". Done jointly with Dr. David Sang of Division of Vector Borne Diseases, Ministry of Health, Kenya.
- 1983 - 1984** Involved in organization of Diarrhoeal Diseases Control Programme.
- 1984** Participated in the review of Health Information System in the Ministry of Health.
- 1984** Facilitated in a senior-level workshop on control of diarrhoeal diseases for an intersectoral group of participants from various ministries, NGOs, Private sector and international organizations, Oct 28th - Nov 3rd, 1984.
- 1985** Facilitated in a supervisory skills training course on control of diarrhoeal diseases (CDD) organized by World Health Organization for international mid-level health workers, Nyeri, Kenya, Nov 4th - 16th, 1985.
- 1986** Facilitated in a mid-level training course organized locally for Kenyan health workers, Nairobi, Kenya.

1986 - 1988 Participated in the write-up of the National AIDS Control Programme 1st Five Year Medium-Term Plan.

1988 - 1990 Participated in the preparation of the National Guidelines for Control of Sexually Transmitted Diseases, Ministry of Health, Kenya.

PUBLICATIONS:

A. FIRST AUTHOR IN PUBLICATIONS/CONFERENCE PRESENTATIONS:

Mbugua, G.G. and Siongok T.K.A. (1981). Visceral leishmaniasis outbreak in Kitui District. *Proceedings, IInd Annual Medical Scientific Conference, Kenya Medical Research Institute, Nairobi, Kenya*, pp. 132-136.

Mbugua, G.G., Ouma, J.H., Butterworth, A.E., Ngindu, A.M., Kariuki, H.C., Makau, C. and Fulford, A.J.C. (1988). Evidence for severe diseases associated with *Schistosoma mansoni* in a focus in Machakos District, Kenya. *Proceedings, 9th Annual Medical Scientific Conference, Kenya Medical Research Institute, Nairobi, Kenya*, pp. 97-103.

Mbugua, G.G., Miriti, S.K., Muthami L.N. Kimata, J., Maina, J.K, Khamala, J., Oogo S., Mutura, C., Waiyaki P.G. and Achola P.S. (1988). Prevalence of sexually transmitted diseases (STDs) in Nairobi. Preliminary findings. *Proceedings, 9th Annual Medical Scientific Conference, Kenya Medical Research Institute, Nairobi, Kenya*, pp. 461-466.

Mbugua, G.G., Kimata, J., Maina, J.K, Khamala, J., Oogo S., Mutura, C., Muthami L.N., Miriti, S.K., Waiyaki P.G. and Achola P.S. (1988). Prevalence of sexually transmitted diseases (STDs) around Nairobi. *Proceedings, IVth International Conference on AIDS, Stockholm, Sweden, 12-16 June, Abst. No. 5558.*

Mbugua, G.G., Gachihi, G.S., Mueke, F.M., Mandalya, K.N., Mupate, E. and Adaw S.A. (1989). HIV seroprevalence survey among high risk females in Mombasa. *Proceedings, 10th Annual Medical Scientific Conference, Kenya Medical Research Institute, Nairobi, Kenya*, 238-240.

Mbugua G. G., Muthami L. N., Kimata J.M., Maina J. K. Oogo S. and Waiyaki P.G. (1990). Sexually transmitted diseases in pregnancy in a Kenyan rural set up. *Proceedings, 11th Annual*

Medical Scientific Conference, Kenya Medical Research Institute, Nairobi, Kenya, February.

Mbugua G. G., Muthami L. N., Kimata J.M., Maina J. K. Oogo S. and Waiyaki P.G. (1991). Rising trend of HIV infection among antenatal mothers in a Kenyan rural area. ***Proceedings, International Conference on AIDS, Florence, Italy, 16-21 June, Abst. No. W.C. 3283.***

Mbugua, G.G. Muthami, L.N. Mutura, C.W. Oogo, S.A. Waiyaki, P.G. Lindan C.P. and Hearst N. (1992). Epidemiology of HIV infection among long distance truck drivers in Kenya. ***VIIth International conference on AIDS at Amsterdam, The Netherlands 19-24th July, Abst. PoC 5367.***

Mbugua, G.G. Muthami, L.N. Mutura, C.W. Oogo, S.A. Waiyaki, P.G. Lindan C.P. and Hearst N. (1995). Epidemiology of HIV infection among long distance truck drivers in Kenya. ***East African Medical Journal, 72: 515-518.***

Mbugua, G.G. (1995). Morbidity patterns and treatment effects in human ***Schistosomiasis mansoni*** in Machakos and Makueni Districts, Kenya. ***PhD thesis, University of Nairobi, Kenya.***

B. CO-AUTHOR:

Bii, C.C., Ouko, T.T., Taguchi, H., Sugiura Y., Chakaya, J.M. and Mbugua, G.G. (2001). Antifungal drug susceptibility of clinical isolates of *Candida albicans*. ***East African Medical Journal, 79(6) .***

Bii, C.C., Kai, M, Nagai, K, Sugiura, Y, Taguchi, H., Chakaya, J.M. Mbugua, G.G., and Kamiya, H. (2002). *Mycoplasma pneumoniae* in children with pneumonia at Mbagathi District Hospital, Nairobi. ***East African Medical Journal, 79(6): 317-22.***

Butterworth, A.E., Corbett, E.L., Dunne, D.W., Fulford, A.J.C., Gachuhi, R.K., Klumpp, R., Mbugua, G., Ouma, J.H., Arap Siongok, T.K. and Sturrock, R.F. (1989). Immunity and morbidity in human schistosomiasis. In: *New Strategies in Parasitology. Edinburgh: Churchill Livingstone.* pp. 193-221.

Butterworth, A.E., Sturrock, R.F., Ouma, J.H., Mbugua, G.G., Fulford, A.J.C., Kariuki, H.C. and Koech, D. (1991).

- Comparison of different chemotherapy strategies against *Schistosomiasis mansoni* in Machakos District, Kenya: effects on human infection and morbidity. *Parasitology*, 103: 339-355.
- Butterworth, A.E., Curry, A.J., Dunne, D.W., Fulford, A.J.C., Kimani, G., Kariuki, H.C., Klumpp, R., Koech, D., Mbugua, G., Ouma, J.H., Roberts, M., Thiong'o, F.W., Capron, A. and Sturrock, R.F. (1994). Immunity and morbidity in human schistosomiasis mansoni. *Tropical and Geographical Medicine*, 46: 197-208.
- Wanjira, c., Mwangi, M., Mathenge, E., Mbugua, G. and Nganga, Z. (2011). Delivery practices and associated factors among mothers seeking child welfare services in selected health facilities in Nyandarua South District, Kenya. *BioMedCentral Public Health*, 11:360.
- Doenhoff, M.J., Wheeler, J.G., Tricker, K., Hamilton, J.V., Sturrock, R.F., Butterworth, A.E., Ouma, J., Mbugua, G. G., Kariuki, C., Koech, D. (2001). Human antibody reactivity in ELISA against unfractionated *Schistosoma mansoni* egg antigens and antigen fraction CEF6: the effect of chemotherapy. *Annals of Tropical Medicine and Parasitology*, (97(7): 697-709.
- Fulford, A.J.C., Mbugua, G.G., Ouma, J.H., Kariuki, H.C., Sturrock, R.F. and Butterworth, A.E. (1991). Differences in the rate of hepatosplenomegaly due to *Schistosoma mansoni* infection between two areas in Mac hakos District, Kenya. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, 85: 481-488.
- Gachihi, G.S., Mueke, F.M., Mbugua, G.G. and Muthami L.N. (1989). The current status of AIDS epidemic in Kenya with special emphasis on seroprevalence in selected high risk groups. *10th Annual Medical Scientific Conference, Kenya Medical Research Institute, Nairobi, Kenya*, pp. 234-237.
- Ho, M., Leeuwenburg, J., Mbugua, G.G., Wamachi, A. and Voller, A. (1983). The enzyme-linked immunosorbent assay (ELISA) for field diagnosis of Visceral Leishmaniasis. *American Journal of Medicine and Hygiene*, 32(S): 943-946.
- Johansen, M.V., Simonsen, P.E., Butterworth, A.E., Ouma, J.H., Mbugua, G.G., Sturrock, R.F., Orinda, D.A.O. and Christensen N. Ø. (1994). A survey for *Schistosoma mansoni* induced kidney disease in children in an endemic area of Machakos District,

Kenya. *Acta Tropica*, 50: 21-28.

Kariuki C. H., Mbugua Gabriel G., Magak Philip W., Bailey Jeffrey A., Muchiri Eric M., Thiong'o Frederick W., King Charles H., Butterworth Anthony E., Ouma John H. and Blanton Ronald E. (2001). Prevalence and familial aggregation of schistosomal liver morbidity in Kenya: Evaluation by new ultrasound criteria. *Journal of Infectious Diseases*, 183(6):960-966

Kombe, Y., Otara, A., Odera, M., Karama, M., Mutsumi J., Wamwea M., Mbugua G. and Wambayi, E. (2000). Female genital schistosomiasis (FGS) in Rachuonyo District, Nyanza Province, Kenya. *Proceedings of 21st African Health Science Congress, 24th - 28th April, 2000.*

Leeuwenburg, J., Bryceson, A.D.M., Mbugua, G.G. and Siongok, T.K.A. (1983) The use of Leishmanin skin-test to define transmission of Leishmaniasis in Baringo District, Kenya. *East African Medical Journal*, 60: 81-84.

Mueke F.M., Gachihi G.S., Mbugua, G.G. and Muthami, L.N. (1988). National surveillance for AIDS and prevalence of HIV infection in selected groups in Kenya. *Proceedings, IIIrd International Conference on AIDS and Associated Cancers in Africa, Arusha, Tanzania, 14-16 September*, Abst. No. FP 30.

Mwaniki, P. K., Kabiru, E. W. and Mbugua, G.G. (2002) Utilisation of antenatal and maternity services by mothers seeking child welfare services in Mbeere District, Eastern Province, Kenya. *East African Medical Journal*, 79: 184-187

Mwatha, J.K., Kimani, G., Kamau, T., Mbugua, G.G., Ouma, J.H., Mumo, J., Fulford, A. J. C., Jones, F.M., Butterworth, A.E., Roberts, M. and Dunne, D.W. (1998). High levels of TNF, sTNF receptors, sICAM-1 and INF- γ , but low levels of IL-5, are associated with hepatosplenic disease in human schistosomiasis mansoni. *J Immunol*, 160: 4, 1992-9.

Ouma, J.H., Mbugua, G.G. and Butterworth, A.E. (1992). Morbidity in schistosomiasis mansoni. *Parasitology Today*, 8: 55.

Reid, G., Sanjeev, A., Bingham, M. O., Mbugua, G., Wadstrom, T., Fuller, R., Anukam, K., Katsivo, M. (2005). Probiotics for the developing world. *Journal of Clinical Gastroenterology*, 39(6): ...8

Sang D.K., Mbugua, G.G., Siongok, T.K.A. (1983). Cutaneous

Leishmaniasis and phlebotomus longipes on Mount Elgon. *East African Medical Journal*, 60: 826.

Sturrock R.F., Kariuki H.C., Thiong'o F.W., Gachare J.W., Omondi B.G.O., Ouma J.H., Mbugua G. and Butterworth A.E. (1996). Schistosomiasis mansoni in Kenya: relationship between infection and anaemia in school children at the community level. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, 90: 48-54.

*Thiong'o F.W., Mbugua G.G., Chritensen N.O., Madsen H., Ouma J.H., Fulford, A.J.C., Sturrock R.F., Andreassen J., Kariuki H.C. and Butterworth A.E. (2002). Variations in therapeutic efficacy of Oxaminiquine and Praziquantel in school children from two schistosomiasis mansoni-endemic Areas in Kenya. *East African Medical Journal*, Vol.79(1): 29-33

Wamae C.N. and Mbugua G.G. (2000). Integrated parasitic diseases control programs and the community role in sites with multiple species of helminth infection. *E. Afric Medic J*, 77: 631.