

CURRICULUM VITAE.



I. PERSONAL DATA

NAME : MARY WANJIKU KIMANI

PERMANENT ADDRESS: P.O BOX 64683-0620, NAIROBI, KENYA

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DATE OF BIRTH : 1959

NATIONALITY : KENYAN

MARITAL STATUS: MARRIED WITH THREE CHILDREN

11. ACADEMIC.

To Date: Registered for a Master of Science Degree in Virology, University of Liverpool John Moore, UK through e-learning. I have successfully completed the required modules and acquired Postgraduate Diploma in Virology and I'm currently writing my project proposal.

1986-87: Higher National Diploma in Medical Laboratory Technology, Department of Applied Sciences, Kenya Polytechnic. Awarded Higher National Diploma in Medical Laboratory Technology.

- 1982-85: Ordinary Diploma, Medical Laboratory Technology, Department of Applied Science, Kenya Polytechnic. Awarded Ordinary Diploma Medical Technology.
- 1979-1980: Kenya Advanced Certificate of Education, Highlands (Moi) Girls High School, Eldoret.
- 1975-1978: Kenya Certificate of Education, Tumutumu Girls High School, Div. II.

II. EMPLOYMENT HISTORY & CAREER PROGRESSION

June 2000- Date: Chief Technologist, Department of Human Pathology, Immunology Unit.

Duties and Responsibilities:

1. Overall in-charge of Laboratory activities
2. Providing support to the head of the unit
3. Prepares and initiates procurement of laboratory equipments, reagents and consumables. Co-ordinates servicing of equipments
4. Set practicals for undergraduate and postgraduate students
5. Carries out clinical and research laboratory diagnostics activities such as:
 - Molecular Techniques- These include the PCR methods, Hybridization, cell preparation, DNA , RNA extraction from the whole blood spot (DBS), Plasma and serum. Amplification and detection of viral load using.
 - a) Nuclisens Easy Q HIV-1 (NASBA- Diagnostic)
 - b) Strategene MX 3000 (Real Time PCR)
 - c) Abbot M2000rt (Real Time PCR)
 - d) Bayer System 340 Bdna analyser
 - HIV-1 DNA using Gene Amp. PCR system-2400 (HIV-1 DNA AMPLIZOT Test)
 - BDFasc Calibur for Immuno Phenotyping CD4/CD8
 - Involved in all laboratory aspects of HAART Kesho Bora study which is WHO study, PEPFAR and ACT Projects
6. Involved in all research projects in Immunology Unit for postgraduate students
7. Training refresher courses on quality assurance for HIV tests in PMTCT project
8. Training newly employed technologists in immunological methods, supervising the technical and support staff.

March 1996- Dec 2000: Senior Technologist, Department of Human Pathology, Immunology Section.

Duties and Responsibilities:

1. Testing for tumor markers using ELISA methods
2. Screening donor blood for HIV, HBsAG, HCV and VDRL
3. Set-up practicals for postgraduate and undergraduate students

March 1995-May 1996: Research Technician, Department of Human Pathology, Immunology Section. I worked on a research project funded by USAID. My duties and responsibilities in the project were preparation of Schistosmiasis monoclonal antibodies, coating of microtitre plates with the antibodies which were used to detect antigen in patients' serum.

Use of schistosmiasis worms as the antigen to detect antibodies by immunofluorescence method.

August 1991- February 1994: Research Assistant at Integrated Laboratory System (ILS). Research Triangle Park, North Carolina, USA. Worked at Genetic Toxicology laboratory where I performed the following genetic assays such as:

- Mammalian cell culture, for chromosome aberrations analysis, maintaining cell lines in culture
- Initiating cultures of human lymphocytes ,dosing cells with chemicals to be tested, fixing and analysing chromosomes for aberrations
- Micronucleus assays, dosing animals with test chemicals, preparing bone marrow smears and analyzing the cells for the presence of micronucleus
- Chromosomes banding and karyotyping, Ames test
- Auditing laboratory reports, quality assurance and audits toxicology and pathology data of chronic carcinogenesis conducted by contracted laboratories of National Toxicology Programme

March 1991- May 1991: Medical Laboratory Technician, Duke Medical Centre, Duke University, Duke University, and Durham, North Carolina, USA. I took part in the following activities:

- Operation of Courtier Counter for blood counties.
- Preparation of Blood Slide

May 1985- Dec 1989: Senior Technologist, Department of Human Pathology, Immunology Section, University of Nairobi. My main responsibilities and duties included:

- Preparation of laboratory teaching materials working on research projects comparing CD4/CD8 counts on HIV positive patients and malaria patients using dynabeads.
- Separation of immunoglobulins and preparation of anti-immunoglobulins.
- Tissues typing using serological methods and other immunological tests

July 1984- May 1985: Laboratory Technician, Department of Zoology, College of Biological Sciences, Chiromo.

Duties and Responsibilities:

1. General Laboratory work
2. Preparation of laboratory teaching materials

PUBLISHED A PAPER TITLED: *Seropositivity of HIV, HBV & HCV in Transfused Patients at Kenyatta National Hospital, 2012.*

ASSISTED POST-GRADUTES STUDENTS AND LECTURES ON THE FOLLOWING PROJECTS.

- 1. Heparin Induced Thrombocytopenia (HIT) Syndrome in adult's patients at Kenyatta National Hospital, Kenya.** (2011, Dr. Msafiri L. Marijani).
- 2. Seroepidemiology of Toxoplasma gondii in antenatal women attending KNH** (2011, Dr. P.W. Kamau).
- 3. Lower risk of resistance after short-course HAART compared with Zidovudine/ single dose Nevirapine used for prevention of HIV-1 mother-to-child transmission** (2009, Dr. Kiarie).
- 4. Detecting seronegative-early HIV infection among adult versus student Kenyan bloods, by using stimmunology** (2009, Prof. Mumo).
- 5. Prevalence of cytomegalovirus antibodies in blood donors at the National Blood Transfusion Centre, Nairobi – Kenya** (2008, DR. Dorothy, G. Njeru).

6. **Independent effects of Nevirapine prophylaxis and HIV-1 RNA suppression in breast milk on early perinatal HIV-1 transmission** (2007, Dr. Kiarie).
7. **Anti-thyroid anti-bodies in primary thyroid disorders** (2004, Dr. Kuria, G. J.).
8. **Prevalence of hepatitis A, B, C and human immunodeficiency virus seropositivity among patients with acute icteric hepatitis at the Kenyatta National Hospital Nairobi** (2004, Prof. Mumo J.).
9. **Evaluation of dihydropyrimidine dehydrogenase activity in South-West Asia, Kenyan and Ghanaian population** (2000, Dr. J. Githang'a).
10. **Evaluation of five immunodiagnostic techniques in echinococcosis patient** (Dr. Chemtai).
11. **T-cell subset counts and serum immunoglobulin concentrations in patients with chronic renal failure at Kenyatta National Hospital** (1998, Prof. Mumo J.)
12. **High levels of TNF, soluble TNF receptors, soluble ICAM-1 and IFN- gamma, but low levels of IL-5 , are associated with hepatosplenic disease in human schistosomiasis mansoni** (1998, Prof. Mumo J.)
13. **Detection of HIV infection during window period using polyclonal B-cell activation test** (1997, Prof. Mumo J.)

PARTICIPATED AND CO-ORDINATED LABORATORY TESTING IN IMMUNOLOGY FOR THE FOLLOWING RESEARCH PROJECT

- 1 **Kenya Aids Control project** (ongoing)
- 2 **Evaluation of the utilization of effectiveness of PMTCT services in Kenya** (IMPACT STUDY), (UoN, 2010)
- 3 **Effectiveness of NNRTI-containing HAART in women with prior exposure to Nevirapine for PMTCT** (Nevirapine Resistance Study) (UoN, 2009/10)
- 4 **Impact of HAART during pregnancy and breastfeeding on mother to child transmission of HIV and mother's health.**(Kesho Bora Project), (UoN,2007/2008)

SEMINARS AND WORKSHOPS ATTENDED.

- May 2011: Training in Tests configuration, Running of tests, QC interpretation and Results interpretation, System Maintenance and Troubleshooting of COBAS[®] AmpliPrep Instrument and COBAS[®] Taqman[®] 48 Analyzer, (ROCHE).
- April, 2011: Workshop on Implementation of ISO 17025:2005, (KEBS).
- October 2010: Training in ABI 7500 Fast Real-Time PCR for automated RNA, DNA Amplification; Africa Biosystem.
- November 2010: Training in Operation of BD FACSCaliburTM, BD Company
- July 2010: Training in Good Phelobotomy Practice, Department of Human Pathology, University of Nairobi
- February 2010: Training in m2000sp for automated RNA, DNA Extraction; Abbott Technologies.
- September 2009: Leukaemia Typing by B.D. (Becton Dicknson), Immunology Unit
- March 2009: Training in Good Clinical Laboratory Practice (GCLP).
- February 2009: Seminar on High Throughput Sequencing, ILRI by ROCHE Diagnostics.
- August 2008: Training in Adult Antiretroviral Therapy; NASCOP & University of Nairobi.
- August 2008: Seminar on Viral Load Testing from a Dried Blood Spot, Abbott Technologies.
- July 2008: Good Clinical Practices Training, Pfizer International, IAVI.
- December 2008: Certificate in Human Participants Protection Education for Research Teams, National Institute of Health.
- Aug. 2007: Training in Provider Initiated testing and Counseling (PITC),

NASCOP, University of Nairobi.

Sept. 2007: Training in m2000rt Real Time PCR for running assays in Viral Load (PCR RNA) and PCR DNA, Abbott Technologies.

MEMBERSHIP TO PROFESSIONAL BODIES

- 1. Registered with Kenya Medical Laboratory Technologists and Technician board (KMTTB)**
- 2. Member of Association of Kenya Medical Laboratory Scientific Officers (AKMLSO)**

PROFESSIONAL AFFILIATION

- Awarded certificate of participation of Good Laboratory Practices (GLP)
- University of Washington Certificate on Human Subject Protection Training
- Attended the 2004 Ethics and Research Workshop from May 24th to May 26th 2004.
- Awarded certificate for successfully completing a course on HAART KESHO BORA study procedures
- Awarded certificate for completing training of trainers for strengthening laboratory systems in support of ART services from the Ministry of Health
- Awarded certificate by Abbot Laboratories Molecular Division on use of m2000rt instrument for PCR real time

HOBBIES

- Swimming
- Travelling
- Farming

REFEREES

1. DR. C. S. Gontier
Head Immunology Unit
Department of Human Pathology
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Nairobi, Kenya
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2. DR. NJAGOL J. PHD.
Lecture: Immunology Unit, Dept. Human Pathology.
P.O. Box 19676-00202
Nairobi, Kenya
E-mail Joshua njagol@uonbi.u.ke

3. Matilu Mwau, MB, Ch. B.,MTM, D. Phil (Oxon)
Principal Research Scientist, Kenya Medical Research Institute (KEMRI)
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SIGNED: MARY W. KIMANI