

CURRICULUM VITAE

Name	Mr. Fidelis A. Mambo
Address	Masinde Muliro University of Science & Technology School of Public Health, Biomedical Sciences & Technology Department of Medical Laboratory Sciences P.O. Box 190-50100, Kakamega, KENYA
Current Position	Lecturer & Current CoD, Medical Laboratory Sciences
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Date of Birth	April 12, 1965
Marital Status	Married, have 4 Children

CAREER GOAL

Focus on success and commitment in teaching, research, laboratory management and community service to greater levels. To continuously make improvements especially in the medical field research towards the general well-being of humanity.

CURRENT POSITION: **LECTURER & CoD, MLS**

Reporting to the Dean, School of Public Health Biomedical Sciences and Technology (SPHBST), my overall responsibilities are to head the Medical Laboratory Sciences department, teach students in the department of Medical Laboratory Sciences and other biomedical-related sciences and also to do research and coordinate other departmental, school and university activities such as community outreaches, quality assurance and clinical teaching & placement.

Duties and Responsibilities

Under the direction of the Dean SPBHST and in liaison with various departmental/school units/committees, my duties include but not limited to:

1. Participation in the development, teaching and co-ordination of the MLS undergraduate programs.
2. Implementation and Co-ordination of examination and assessment of under/postgraduate students
3. Overseeing and ensuring the smooth teaching of under/postgraduate programs at the department.
4. Monitoring and evaluation of the undergraduate and postgraduate programs in liaison with departmental quality assurance team
5. Preparation and review of costs of the MLS undergraduate and postgraduate programs
6. Teach and train students in Medical Parasitology, Biotechnology, Virology and Laboratory Management & Quality Assurance.
7. Monitoring and evaluation of the departmental research programs in liaison with departmental research and quality assurance team
8. Planning and implementing continuing professional development/short courses
9. Perform any other duties as may be assigned by the Dean, SPHBST.

PREVIOUS POSITION.

LAB QUALITY MANAGER & PROJECTS COORDINATOR – AMPATH REF. LABS ELDORET. **RESPONSIBILITIES – 2006-2012**

- ✓ Coordinate/participate in clinical research studies at AMPATH (Academic Model Promoting Access to Treatment & Healthcare)
- ✓ Train personnel in sample collection, processing, storage and transport/shipment to main laboratory/reference or overseas laboratories.
- ✓ Develop SOPs
- ✓ Validate and evaluate laboratory methods/instruments.
- ✓ Ensure quality and safety in the lab by guiding staff through the lab quality & safety manuals.

- ✓ Provide training on laboratory issues, arrange staff proficiency testing, and evaluate staff competency and training needs.

ACHIEVEMENT:

- ✓ Led the AMPATH team in the development of the Quality Manual for AMPATH Reference Labs using ISO 15189:2007 standards that successfully led to **ISO 15189:2012** accreditations by KENAS (22/03/2012).

PREVIOUS POSITION:

- ✓ Head of Molecular Biology section at AMPATH Laboratories (Moi University), 2006 – 2008
- ✓ Senior Lab Technologist, Medical Biochemistry department, SOM-Moi University, 1994 – 2004
- ✓ Lab Technologist at Kenyatta National Hospital, 1988 – 1993

SKILLS GAINED:

- Management of both human and physical resources
- Experience in basic laboratory techniques, including preparing, handling and storing of valuable specimens
- Experience in Immunology and Molecular biology techniques such as Immunophenotyping, Enzyme linked Immunosorbent assays (ELISA), Rapid Diagnostic assays/tests and PCR including Real-Time PCR methods and amplifications, and other automations.

SHORT COURSES, CONFERENCES & WORKSHOPS ATTENDED

YEAR	ACTIVITY
2021	National AMR-Surveillance workshop by National Public Health Laboratory Services, Nairobi, February 22-26, 2021.
2020	Basic Microbiology by WHO-Health Emergencies Program
2020	Waste Management by WHO-Health Emergencies Program
2020	Infection Prevention and Control (IPC) for Novel Coronavirus (COVID-19) by WHO-Health Emergencies Program
2019	ToT Malaria Case Management workshop by National Malaria Control Program, Nakuru, March 3-6, 2019.
2017	Welcome Genome Cmpus-Advanced Course: “Molecular Approaches to Clinical Microbiology in Africa” at the Faculty of Health Sciences, University of Cape Town, SA.
2015	Kenya Aids Vaccine Initiative –KAVI: “Training in Bioethics and Good Clinical Practice - GCP” at the Institute of Clinical Research, University of Nairobi, KENYA
2015	Bioethics and Good Clinical Practice Lite training by Masinde Muliro University of Science and Technology, Kakamega-KENYA
2011	Laboratory Quality Management training by International Federation of Clinical Chemistry & Laboratory Medicine (IFCC)
2011	Good Clinical Laboratory Practice (GCLP) and Laboratory Data Management Systems (LDMS) training by Frontier Science and Technology Research Foundation (FSTRF), Inc. in Durban, SA

WORK HISTORY AND EXPERIENCE.

(i) Masinde Muliro University of Science & Technology, April 2015 to date

- Lecturer & Chairman (**2018 to date**), Department of Medical Laboratory Sciences

(ii) Masinde Muliro University of Science & Technology, March 2012 to April 2015.

- Assistant Lecturer, Department of Medical Laboratory Sciences

(ii) Academic Model Promoting Access to Treatment & Healthcare (AMPATH) of Moi Teaching & Referral Hospital/Moi University – School of Medicine, 2006 to 2012.

- Laboratory Quality Manager & Research Projects Coordinator, October 17th 2008.
- Senior Laboratory Technologist, AMPATH Reference Laboratory (April 2006 to October 2008).

(iii) Moi University (School of Medicine, Department of Biochemistry), 1994-2006.

- Acting Chief Technologist (January 2004 – April 2006).
- Senior Medical Laboratory Technologist (1994 – 2006).

(iv) Kenyatta National Hospital, Nairobi, KENYA; 1988-1994. .

- MLT II at the Immunology Laboratory
- Medical Laboratory Technologist (MLT) III at the Renal Unit Laboratory

CONTRIBUTION TO INSTITUTIONAL, NATIONAL OR INTERNATIONAL CAPACITY BUILDING:

- ✓ Appointed member of the following committees; MTTI Committee, Planning, Extension & Development Committee and School Attachment Committee in the School of Public Health Biomedical Sciences and Technology since October 2020.
- ✓ Coordinated a Seminar on Health Laboratory Services Management, MMUST, Kakamega.
- ✓ Coordinated a departmental workshop on the development of a Master of Science in Medical Laboratory Science (Medical Parasitology & Vector Biology), launched September 2015.
- ✓ Mentored Bungoma County Referral Hospitals' laboratories in KENYA on Laboratory Quality Management Systems. Bungoma hospital labs has since attained accreditation in ISO 15189:2012; Medical Laboratories – Particular requirements for quality and competence.
- ✓ Linked collaboration between MMUST and Graduate School of Chinese Academy of Agricultural Sciences. MOU for the collaboration signed on 21-11-2018 at MMUST.
- ✓ Linked collaboration between MMUST and KEMRI Headquarters.

POST GRADUATE STUDENT SUPERVISION: COMPLETED

1. Kenneth Waititu: P150/23628/2015 - Phytochemical Composition of *Kalanchoe pinnata* and *Bidens pilosa* leaves associated with Management of Diabetes. MSc in Infectious Diseases. JKUAT. **Completed 2019.**
2. Arthy Elly Yongo: SM/PGP/01/17. Assessment of Pre-Analytical Quality Indicators and the Associated Errors in Clinical Laboratory Testing at Kombewa Sub-County Hospital, Kenya. A descriptive study. MSc in Public Health-MASENO Univ. **To graduate December 2021.**
3. Celine A. Okuta: HML/G/01-57290/2016 - Evaluation of Diagnostic Performance and Factors Affecting Malaria Rapid Diagnostic Test in Seme, Kisumu County. MSc in MLS (Medical Parasitology). **Defended at SGS-MMUST and passed, to graduate December 2021.**

POST GRADUATE STUDENT SUPERVISION: ON GOING

1. James M. Emisiko: HML/G/27/2015 - Performance Comparison of Direct Stool Analysis and Polymerase Chain Reaction in the Detection of Amoebiasis and Giardiasis, Kakamega County. MSc in MLS (Medical Parasitology). **Ongoing, approved to defend at School level - MMUST.**

BOOK PUBLICATION 2014

- **Mambo F.A**, Sowayi G.A, and Ngeiywa M.M. **2014**. *Trichomonas vaginalis* PCR & socio-economic factors. **Number: 105386, ISBN: 978-3-659-55673-9**. LAP (LAMBERT ACADEMIC PUBLISHING) GmbH and Co. KG Heinrich-Bocking-Str. 6-8 66121, Saarbrücken, Germany. **Publication date: 18th July 2014**.

PUBLICATIONS & CONFERENCE PRESENTATIONS

- Yongo E. Arthy, Jack Ogony, Ben Oyugi, Gonza Omoro Kevin Omondi and **Fidelis Mambo**. **2021**. Assessment of Pre-Analytical Quality Indicators and the Associated Errors in Clinical Laboratory Testing at Kombewa Sub-County Hospital, Kenya. A descriptive study. *International Journal of Scientific Research and Innovative Technology* Vol. 8 No. 1 January 2021. ISSN:2313-3759
- Celline Okuta, Hellen Ogolla, **Fidelis Mambo** and Christine Wanjala. **2020**. Comparative Study between Rapid Diagnostic Tests and Microscopy for Diagnosis of Malaria in Seme, Kisumu County, Kenya. *Medicine & Medical Sciences*. Vol. 2(2), pp 010-018, ISSN:2167-0449
- James Emisiko, Nathan Shaviya **Fidelis Mambo** and Mustafa Barasa. **2020**. Comparison of Microscopy and PCR for Detection of Giardia Lamblia and Entamoeba Histolytica in Human Stool Specimens in a Resource Limited Setting in Western Kenya. *Ethiopia Journal Health Sc.* 2020;30(6):891.doi:http://dx.doi.org/10.4314/ejhs.v30i6.6
- Kenneth Waititu, Peter Mwethera and **Fidelis Mambo**. **2018**. Phytochemical Composition of *Kalanchoe pinnata* and *Bidens pilosa* Leaves associated with Management of Diabetes. *Biomedicine & Biotechnology*, 2018, Vol. 6, No. 1, 15-20 @ Science and Education Publication, DOI:10.12691/BB-6-1-3.
- Barasa Mustafa, **Mambo FA**, Shaviya N, Wamalwa R, Okoth P. **2015**. Expression of Physiologic Biomolecules following anti-Malarial Cytokine-CpG Motif Oligodeoxynucleotide. Gene Therapy. Vol. 3(9) pp. 432-452.
- **F. A. Mambo**, E. K. Mulunji, G. A. Sowayi, R. C. A. Omedo, G. A. Mukoya and D. A. Kokonya. **2015**. Hookworm Infestations among Pregnant Teenagers in Bungoma County, Kenya. *International Journal of TROPICAL DISEASE & Health*. 10(4): 1-7, 2015, Article no.IJTDH.16330. ISSN: 2278–1005.
- Rami Kantor, Diero L, DeLong A, Buziba NG, **Mambo FA**. **2014**. HIV diversity and drug resistance from plasma and non-plasma analytes in a large treatment programme in western Kenya. *Journal of the International AIDS Society-JIAS*, doi.org/10.7448/IAS.17.1.19262.
- Phidelis M. Maruti, Mulianga EA, Wambani LN, **Mambo FA**. **2014**. Creating a sustainable culture of quality through the SLMTA programme in a district hospital laboratory in Kenya. *African Journal of Laboratory Medicine-online*; doi10.4102.
- Rami Kantor, **Mambo FA**, Diero L, DeLong A, Buziba NG. **2013**. Antiretroviral Treatment Interruptions Induced by the Kenyan Post-Election Crisis are Associated with Virologic Failure-QAIB4266R1. *Journal of Acquired Immune Deficiency Syndrome - Epidemiology*, 49:454-62.
- Sue N. Mavedzenge, Barbara VDP, Helen AW, Cynthia K, **Mambo FA**, Tsungai C. **2012**. The association between Mycoplasma genitalium and HIV-1 acquisition in African women. *AIDS Journal*. June 2012, 26:617-624. ISSN 0269-9370.
- Arthur M Kwena, Wakhisi JN and **Mambo FA**. **2012**. Possible Biochemical Markers in *Plasmodium falciparum* Malaria Infected Children with or without Malnutrition at Webuye and Eldoret, Western Kenya. *Advances in Bioresearch Journal*, Volume 3 [2] June 2012: 49 – 54. ISSN 0976 – 4585
- Rami Kantor, **Mambo FA**, Diero L, DeLong A, Buziba NG. **2009**. Misclassification of First-Line Antiretroviral Treatment Failure Based on Immunological Monitoring of HIV Infection in Resource-Limited Settings. *Journal of Clinical Infectious Diseases*, 49:454-62.

- **F.A. Mambo & Rita Drobner. 2008.** Whole Blood versus Dried Blood Spots (DBS) – A local evaluation for changing HIV DNA testing for Infant diagnosis In Western Kenya. **Biomedical Scientist** Vol. 52 No. 10. (October Issue), Pp: 862-864.

COMMUNITY ENGAGEMENT AND PARTICIPATION/CONTRIBUTION

- ❖ Member of the Mwhila High School (Butere) Alumni Association, through which we managed to build a 200 bed capacity dormitory for the school. Member no. MHSAA307.
- ❖ Member of John Osogo High School (Budalangi) Alumni Association, through which we have delivered 300 desks and chairs to help alleviate the infrastructural shortage at the school
- ❖ Participates in the annual World Biomedical Laboratory Science Day; we set camp in schools and perform laboratory testing to help diagnose diseases and hence timely treatment to the community
- ❖ A mentor to the young upcoming scientists especially to those with interests in Medical Sciences
- ❖ A member of the Holy Trinity Catholic Church Development committee, Mundere in Budalangi, through which we have managed to build a new church, complete waiting to be furnished.

REGULATORY BODY MEMBERSHIP/AFFILIATIONS

- ❖ Member and Maintains licensure and certification by the Kenya Medical Laboratory Technicians and Technologists board (KMLTTB). Registration No. A01748.
- ❖ Member of African Society for Laboratory Medicine (ASLM), No. 01608/14.
- ❖ Member of the Association of Kenya Medical Laboratory Scientific Officers (AKMLSO)

EDUCATION BACKGROUND

YEAR	SCHOOL/COLLEGE	AWARD
2018-Date	Masinde Muliro University of Sc & Tech	PhD in Laboratory Medicine, ongoing
2009	Moi University (Eldoret)	Master of Philosophy in Zoology (Parasitology)
2000	Moi University (Eldoret)	Bachelor of Science
1992	Kenya Medical Training (Nairobi)	H.Dip. in Medical Laboratory Science – Virology
1988	College of Health Sciences (Nbi)-KMTC	Diploma in Medical Laboratory Technology
1984	John Osogo Secondary (Busia)	Kenya Certificate of Education (Secondary) – KCE
1980	Busagwa Primary (Busia)	Certificate of Primary Education (CPE)

REFEREES

- (i) Dr. Donald A. Kokonya
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