



ACADEMIC STAFF PROFESSIONAL PROFILE

1. Personal Details

Name: Dr. Millicent Taka Mumbo
Title/Qualification: PhD. Molecular Biology and Bioinformatics, M.Sc. Molecular Biology and Bioinformatics and B.Sc. Medical Laboratory Science
Department: Medical Laboratory Science
Designation/Position: Lecturer
Email: mumbo.millicent@ku.ac.ke
Contact Address: 43844-00100, Nairobi, Kenya
Area of Specialization: Molecular Biology and Bioinformatics
Research Interests: Microbial diversity and Antimicrobial sensitivity with major interest in Molecular Biology and Bioinformatics

2. Academic & Professional Qualifications

Date	Institution	Course
2020 – 2023	Jomo Kenyatta University of Agriculture and Technology	Doctor of Philosophy in Molecular Biology and Bioinformatics
24 th -29 th June, 2019	ICIPE in collaboration with COS Heidelberg	TReND courses on Genome editing
20 th -30 th May, 2019	Kenyatta University in partnership with University of Helsinki	Sustainability and Health Promotion-From Global View to Local Solutions
6 th -30 th May, 2019	Kenyatta University in partnership with University of Helsinki	Data Management & Statistical Analysis using R software
13 th -16 th May, 2019	Kenyatta University in partnership with University of Helsinki	Scientific Communication: Poster & Oral Presentation
6 th -9 th May, 2019	Kenyatta University in partnership	Scientific Writing For International

	with University of Helsinki	Journals
2018	Jomo Kenyatta University of Agriculture and Technology	M.Sc. in Molecular Biology and Bioinformatics
2009	Jomo Kenyatta University of Agriculture and Technology	Bachelor of Science in Medical Laboratory Sciences

3. Employment History

May 2023- to date	Departmental Time Table Coordinator
May 2021 to May 2023	Chairperson of Departmental Curriculum Development Committee
November 2020 to April 2021	Examination coordinator in Medical Laboratory Science department
September 2020 to December 2020	E-learning coordinator in Medical Laboratory Science department
February 2020 to date	Tutorial Fellow at Kenyatta University, Department of Medical Laboratory - Teaching and examining students doing B.Sc. in Medical Laboratory Science (Basic Cell Biology, Basic Biochemistry, Molecular Biology and Genetics, Laboratory Management, Community Health) - Coordinating practical sessions in the teaching laboratories
January 2018- to Dec 2019	Lectured at Jomo Kenyatta University of Agriculture and Technology.
January 2013 to August 2013	Tutor at Kenya Institute of Professional Studies (KIPS), Department of Medical Laboratory
March 2011-Jan 2013	Worked at The Aga khan University Hospital as a Medical Laboratory Technologist.
May-Dec 2010	Part time Teaching Assistant at Jomo Kenyatta University of Agriculture & Technology - Giving tutorials to students - Marking continuous assessment tests (CATs) and practicals - Assisting in preparation of exam time table and lecture programs - Invigilation of CATs and Examinations

May-June 2010	Research assistant in a biofertilizer synthesis project at Jomo Kenyatta University of Agriculture & Technology • Conducting laboratory trials and tests • Assisting in the literature review • Chemical tests of the various components of the raw materials
January-April 2008	Hospital Attachment Attache' at Busia District Hospital • Haematology and blood transfusion • Test of parasites in blood, urine and stool • Microbiology of sputum and vaginal discharge • HIV/AIDS tests, counseling and management • Serological tests of all body fluids • Biochemical tests • Clinical chemistry tests • Stool, Urine and Blood
June-August 2007	Attache' at Jomo Kenyatta University of Agriculture and Technology • Did experiments in Parasitology, microbiology, serology, biochemistry and virology laboratories • Data collection, analysis and report writing

4. Publications

Mumbo MT, Nyaboga EN, Kinyua J, Muge EK, Mathenge SGK, Muriira G, Rotich H, Njiraini B and Njiru JM (2023). Prevalence and antimicrobial resistance profile of bacterial foodborne pathogens in Nile tilapia fish (*Oreochromis niloticus*) at points of retail sale in Nairobi, Kenya. Front. Antibiot. 2:1156258. doi: 10.3389/frabi.2023.115625

Mumbo MT, Nyaboga EN, Kinyua J, Muge EK, Mathenge SGK, Muriira G, Rotich H, Njiraini B and Njiru JM (2023). Antimicrobial resistance profiles of *Salmonella* and *Escherichia coli* isolated from fresh Nile tilapia (*Oreochromis niloticus*) fish marketed for human consumption BMC. Microbiol. 2:26052023.

Mumbo MT, Nyaboga EN, Kinyua J, Muge EK, Muriira G, Rotich H, and Njiru JM (2023).
Prevalence of Multidrug-resistant Enterobacteriaceae Isolated from Raw Nile Tilapia
(*Oreochromis niloticus*) Sold in Nairobi, Kenya. MDPI- Bacteria-2641279

M. T. Mumbo, G. F. O. Obiero, J. Kinyua and S. R. G. Nyanjom (2016).
Comparative Characterization of Neurotransmitter Receptor Genes in Tsetse Fly Genomes.
Journal of Advances in Biology & Biotechnology.10(2): 1-32, 2016.

5. Professional Affiliations

- Registered by the Kenya Medical Laboratory Technicians & Technologists Board (K.M.L.T.T.B)
- Kenya Bioinformatics Network (K.B.N)
- Kenya Society of Microbiologists (K.S.M)