

Alupe University Staff Profile

1. Name:	Mr. Brian Mutuma Kathurima Tutorial Fellow (Clinical Chemistry) School of health sciences Department of Medical laboratory sciences	
2. Passport photo:	Place your Passport photo here: •	
4. Biography:	Brian Mutuma Kathurima, MSc (Clinical Chemistry) is a Tutorial Fellow in Clinical Chemistry in the Department of Medical Laboratory Sciences, School of Health Sciences, at Alupe University. He holds a Master of Science in Medical Laboratory Sciences (Clinical Chemistry) and is currently pursuing a PhD in Clinical Chemistry at Masinde Muliro University of Science and Technology. As an emerging academic and researcher, Brian combines expertise in clinical chemistry, medical laboratory education, and laboratory quality management. Before joining Alupe University in 2025, he served as a Vocational and Technical Trainer at Sigalagala National Polytechnic and as a Clinical Instructor at Masinde Muliro University of Science and Technology, where he taught undergraduate courses in clinical chemistry, biochemistry, research methods, and related laboratory sciences. Brian is a licensed Medical Laboratory Technologist registered with the Kenya Medical Laboratory Technicians and Technologists Board and a member of the Clinical Chemistry Association of Kenya. His professional experience includes laboratory leadership, quality assurance, and participation in initiatives supporting ISO 15189 accreditation. His research interests center on metabolic diseases, clinical biomarkers, laboratory quality systems, and the application of artificial intelligence in health data analytics. Through his teaching and research, he is dedicated to advancing evidence-based laboratory practice, mentoring future healthcare professionals, and contributing to innovative solutions that strengthen health systems in Kenya and beyond.	

5. Academic Qualifications:	Doctor of Philosophy in Medical Laboratory Sciences – Clinical Chemistry, (Ongoing Project Title: <i>Biochemical and inflammatory determinants of cardiovascular risk among HIV-1 patients aged > 50 years on dolutegravir and protease inhibitor-based therapy</i> Masinde Muliro University of Science and Technology. Master of Science degree in Medical Laboratory Sciences- Clinical chemistry, Thesis Title: <i>Hepatic and renal function in non-adherent and adherent hiv-1 adults on highly active antiretroviral therapy at Siaya county referral hospital, Kenya</i>, Masinde Muliro University of Science and Technology. Kenya Medical Laboratory Technologists and Technicians Board (KMLTTB) Certificate of Registration, Reg. No: A012141 Clinical chemistry association of Kenya Membership number CCA26/36. Bachelor of Science degree in Medical Laboratory Sciences, 2018, Masinde Muliro University of Science and Technology. Kenya Certificate of Secondary Education (KCSE), 2013, Meru School, Meru County. Kenya Certificate of Primary Education (KCPE), 2009, Plainsville Academy, Meru County
6. Research Interests:	• Metabolomics & Proteomics. • Novel biomarker discovery & validation. • Organ Function & Injury Indicators. • Laboratory automation & digital health. • AI-driven data analytics and quality control
7. Publications:	1. Lukalo, H. O., Were, T., Ali, I. M., Budambula, V., Mutuma, B., & Onyango, A. (2025). <i>Hepatocellular injury and metabolic dysregulation of selected biomarkers in Human Immune Virus-1—Hepatitis C Virus co-infected individuals using heroin in Mombasa County, Kenya</i>. SCIENCE MUNDI, 5(2), 326–337. (Kenya). https://doi.org/10.51867/scimundi.5.2.31 2. Mutuma, B., Omedo, R., Wafula, P., Demba, N., Zablon, J., Shaviya, N., & Were, T. (2023). <i>Hepatic Function and its Association with Clinical Outcomes in Non-Adherent HIV-1 Adults . Afro-Egyptian Journal of Infectious and Endemic Diseases</i>, 0(0), 0–0. https://doi.org/10.21608/aeji.2023.188741.1288

8. Classes you teach:	• Clinical Chemistry • Medical Biochemistry • Chemical Analysis • Medical Physiology • Medical Pathophysiology • Community Based Education & Service
9. Other relevant links:	ORCID: 0000-0001-5828-9298 Google Scholar: Brian Mutuma Kathurima
10. Official Contact Details:	bmutuma@au.ac.ke