

CURRICULUM VITAE

Henry Kiema Musee
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CAREER OBJECTIVE

To contribute to advancements in clinical molecular diagnostics and bioinformatics by applying my knowledge in molecular biology, genomics, and computational tools. I seek to be part of innovative health research initiatives like those at CMB Genomics that aim to bridge the gap in diagnostic capacity and research training across Africa.

EDUCATION

Bachelor of Science in Biochemistry
Pwani University | Sep 2021 – Present (Expected Graduation: October 2025)

Relevant Coursework: Molecular Biology, Bioinformatics, Public Health Microbiology.

Thesis: *Genetic Diversity of Multidrug-Resistant Neisseria gonorrhoeae in Kenya* (Whole-genome sequencing & phylogenetic analysis).

Kenya Certificate of Secondary Education (KCSE)
Kituti Secondary School | 2016–2020 | Grade: B–

Kenya Certificate of Primary Education (KCPE)
Mwanguivuti Primary School | 2006–2013 | Score: 271/500

RESEARCH EXPERIENCE

Research Assistant | Pwani University Biosciences Research Centre
2023–Present

Conduct whole-genome sequencing and bioinformatics analysis of 36 *Neisseria gonorrhoeae* isolates to assess AMR patterns.

Utilize R, Python, and phylogenetic tools (e.g., MEGA, BLAST) for data analysis.

Co-authoring manuscript for *Microbiology Resource Announcements* (Expected submission: 2025).

SKILLS

Laboratory Techniques: DNA extraction, bacterial culture, protein quantification, antimicrobial susceptibility testing.

Data Analysis: R, Python, Excel, phylogenetic analysis, statistical modeling.

Leadership: Class Representative (2022–2023), team coordination in research projects.

Communication: Public speaking, scientific writing, community health advocacy.

WORKSHOPS & TRAINING

AMR Awareness Workshop | *Zihi Institute* | Oct 2024–Feb 2025

Explored AMR surveillance strategies and policy frameworks in Kenya.

Bioinformatics Short Course | *Genomac Institute* | Sept–Oct 2024

Hands-on training in genomics and Next-Generation Sequencing (NGS) data analysis.

Leadership in Africa | *PUBReC* | May–Jun 2024

Developed project management and team collaboration skills.

COMMUNITY SERVICE

Blood Donation Drive | *Ikutha Boys High School* | Jun 2022

Mwangaza Children's Home Visit | *Pwani University Catholic Students* | Feb 2024

Donated supplies and delivered mentorship talks on education and health.

PUBLICATIONS

Kiema, H.K., et al. (2025, *in prep*). Genome Announcement of 36 Multidrug-Resistant *Neisseria gonorrhoeae* isolates from Kenya. *Microbiology Resource Announcements*.

PROFESSIONAL AFFILIATIONS

Member, Pwani University Biosciences Students Association (2022–Present).

HOBBIES

Basketball | Piano | Traveling | Bicycle Riding

REFEREES

Prof. Wilton Mbinda

Ag. Registrar (Research & Extension), Pwani University

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Prof. Suhaila Hashim

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