

## CURRICULUM VITAE

Henry Kiema Musee

📍 PO Box 90200, Kitui, Kenya

✉ [henrykiema47@gmail.com](mailto:henrykiema47@gmail.com)

☎ +254 701 324 755



### 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

✉ [w.mbinda@pu.ac.ke](mailto:w.mbinda@pu.ac.ke) | ☎ +254722 723950

Prof. Suhaila Hashim

Manager, Pwani University Biosciences Research Centre

✉ [s.hashim@pu.ac.ke](mailto:s.hashim@pu.ac.ke) | ☎ +254707 719757