



Moses Kabuu

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ABOUT ME

I am a Microbiologist with a strong background in Microbial Interactions and Antimicrobial Resistance (AMR). Skilled in the isolation and characterization of microbes with an interest in the discovery of novel small bioactive molecules. Alongside my career as a biologist, I am passionate about leadership and STEM outreach. I am a Co-Founder of STEM for Development and a strong believer in transformative leadership.

EDUCATION AND TRAINING

M.Sc. in Microbiology

Friedrich Schiller University Jena [10/2021 – Current]

Address: Fürstengraben 1, 07743 Jena (Germany)

B.Sc. in Microbiology

Moi University [09/2015 – 12/2019]

Address: 3900 Eldoret (Kenya)

Thesis: A comparative study of antibiotic resistance by *Escherichia coli* and *Staphylococcus aureus*

RESEARCH INTEREST

Microbial Interaction

- Antimicrobial Resistance (AMR)
- Discovery of novel antibiotics
- Microbial stress responses

RESEARCH SKILLSET

Microbiology, Molecular and Bioinformatic techniques

- Antibiotic Screening
- Microscopy (light and fluorescence)
- Image analysis using Fiji-Image J
- DNA extraction
- Polymerase Chain Reaction (PCR)
- DNA Sequencing

WORK EXPERIENCE

Masters Thesis

Friedrich Schiller University Jena, Germany [10/2022 – Current]

Isolation of small bioactive molecules from *Planctomycetes*.

Advisors: Prof. Dr. Christian Jogler and Dr. Nicolai Kallscheuer

Visiting Scholar, LEAD Program

University of Cologne/ DAAD- Germany [03/2022 – Current]

Leadership and Governance, Sustainable development and SDGs

Research Intern

Friedrich Schiller University Jena, Germany [05/2022 – Current]

Characterization of novel *Planctomycetes* from various habitats.

Advisors: Prof. Dr. Christian Jogler and Dr. Nicolai Kallscheuer

Research Intern

Kenya Medical Research Institute (KEMRI) [2019]

Acquired skills: Molecular skills (DNA extraction, polymerase chain reaction (PCR), and gel electrophoresis), ELISA, microscopy, isolation, culturing, and identification of parasites.

Research Intern

Moi Teaching and Referral Hospital (MTRH)-Kenya [2017]

Acquired skills: Isolation of pathogenic microorganisms, culture and sensitivity tests, Zn staining, Gram stain, and urinalysis.

Research intern

AMPATH Centre, collaborating with Moi University School of Medicine and Indiana University [2016]

Acquired skills: Laboratory Data Management System (LDMS), DNA Extraction, & Reverse transcription PCR, MDR-Mycobacterium tuberculosis, Quality Assurance, and Quality Control, Good Clinical Laboratory Practice (GCLP), and Bio Repository.

HONOURS AND AWARDS

DAAD Scholar

Deutscher Akademischer Austauschdienst (DAAD), Leadership for Africa Scholarship (€ 23,400) [09/2021]

World Literacy Foundation Ambassador

World Literacy Foundation [06/2020]

Advocating for literacy both in Kenyan institutions and communities as well as a selected global program (Colombia).

CONFERENCES AND SEMINARS

DAAD- Leadership for Africa Annual Conference; Berlin- Germany

[06/2022]

LANGUAGE SKILLS

Other language(s): **English-Proficient User** | **German-Basic user**