

EDWIN ISAVA WANJOFU

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Personal objectives

Focused towards revolutionizing biological and natural sciences research through innovation and technology

Work Experience

01/04/2021- Date - **University of Pretoria, South Africa**

➤ **Practicals demonstrator (Microbiology department)**

- Organize practical session for undergraduates
- Disseminate knowledge and literature behind various lab work
- Assist in report writing, reporting, and marking
- Stepwise guidance in various microbiological and molecular wet lab experiments

01/06/2021-30/06/2022- **University of Pretoria, South Africa**

➤ **Microbiology glasshouse manager**

- Responsible for the overall well-being of the glasshouse
- Coordinate and assign experiments in the glasshouse
- Manage the projects and labor in the various running projects

15/11/2020-06/01/2021- **Beta Healthcare Intl. Ltd**

➤ **Medical Representative**

- Reaching out to customers, creating new customer lines and contact market surveys
- Ensure presence of stock in various distributors
- Compile daily and monthly reports

06/08/2020 – 08/11/2020 – **Eyeland Africa**

➤ **Sales and marketing specialist**

- Organize meeting with clients
- Coordinating and training my marketing team
- Review reports from my team and report to the MD
- Tender applications, proposal writing, data analysis and documentation
- General office duties

01/06/2018 – 05/09/2018 – **Kenya Medical Research Institute**

➤ **Student intern**

- As a student intern at KEMRI Nairobi in the Centre of the Traditional Medicine and Drug Research (CTMDR) and Centre for Biotechnology Research and Development (CBRD). Skills acquired: conservation and storage of plant materials, phytochemical extraction, and analysis of various medicinal plants, in vitro and in vivo assays on anticancer, antibacterial, antiviral agents of medicinal plants extract, cytotoxicity assays on mammalian cell lines and microbiological techniques including bacterial cultures, and maintenance. Was as well exposed to ELISA technique.

Student's supervision and Tutoring

- Esther Shoderu – Eduvos University, Midrand, South Africa.

Educational Background

05/01/2021- Date - University of Pretoria (UP) | Forestry and Agricultural Biotechnology Institute (FABI)

- Master's in Biotechnology

Sept.2015 to April 2019: Karatina University

- Bachelor of Science (Hons) in Biochemistry

Class: 2nd Class Honors Upper Division

Jan. 2011 – Dec. 2014: St. Mark's Boys High School

- Kenya Certificate of Secondary Education

Grade: A-

Bioinformatics/ Molecular biology softwares

- **Bioedit**

DNA sequences editing

Complementation and consensus sequences creation

Pairwise alignment (global and local alignment)

- **Chromas**

Editing Abi DNA sequences chromatogram

- **CLC Workbench**

DNA sequences editing

Complementation and consensus sequences creation

Pairwise alignment (global and local alignment)

- **MEGAX**

Multisequence alignment (ClustalW and Muscle)

Phylogenetic analysis (Maximum likelihood and neighbor joining trees)

- **RaxML**

Phylogenetic analysis

- **KBase**

Whole genome assembly (SPAdes,) Polishing (Trimmomatic and Trim Gallore) and Quality control (FastQC), Annotation (Prokka)

Statistical and data analysis software

- R program
- OriginPro.
- Basic programming (Java and Python)
- Excel

Professional skills

- Bacterial culture growth and storage (beads and glycerol cryopreservation)
- DNA extraction and quantification
- Polymerase chain reaction (qPCR)
- Sanger sequencing
- Phytochemical extraction and microbial susceptibility assays
- Bacterial genome de novo assembly

Projects

- Comparative analysis of heavy metals in kales from Karatina and Nairobi (Undergraduate mini project).
- Comparative study of chickpea compatible rhizobia with commercial inoculant in nodulation, growth promotion and evolutionary relatedness in South Africa

Conferences/ Seminars

22/09/2021 – 22/10/2021 – 14th European Nitrogen Fixation International conference 2021

- Gave an oral presentation on Nodulation and nitrogen fixation effectiveness of chickpea associated *Mesorhizobium* strains under controlled conditions in South Africa.

24/04/2022- 27/04/2022 – BIO2022 National Conference (DOI: 10.13140/RG.2.2.17284.81285)

- Gave a poster presentation on the evolutionary relatedness of chickpea diazotrophic symbionts and evidence of symbiotic genes conservation.

Memberships

- South African Society of Bioinformatics (SASBi) and South African Genetics Society (SAGS)
Registration number S159
May 2022 – May 2024

Volunteer/community work

- Nka'Thuto Edu Propeller_Science Innovation Expo Judge (August 2022)

REFEREES

1. Dr. Esther K Muema- University of Pretoria (South Africa) | FABI

Senior research fellow FLAIR

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2. Prof. SN. Venter

Senior professor and Assistant Director at FABI-University of Pretoria.

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3. Dr. Mary K Wandia – Karatina University (Kenya)

Lecturer

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4. Japheth Kibet Ngetich – University of Nagasaki (Japan)/ KEMRI

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