

CURRICULUM VITAE

WYCLIFFE ODHIAMBO MISIGO

PERSONAL DETAILS

Date of Birth : 23rd JULY 1994
Nationality : Kenyan.
Gender : Male
Languages : English, Kiswahili and Luo
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EDUCATIONAL BACKGROUND

September 2018- December 2021: University of Nairobi

Qualification attained:
Masters of Science (Chemistry).

Specialization
Inorganic and coordination chemistry

January 2014-February 2018: University of Nairobi

Qualification attained:
Bachelor of Science (Chemistry) Second class honors upper division.

February 2009-November 2012: St. Augustines Secondary School, Kandege, Kisumu County.

Qualification attained:
Kenya Certificate of Secondary Education (KCSE). Mean grade B+.

January 2001-December 2008: Chemelil B1 Primary School.

Qualification attained:
Kenya Certificate of Primary Education (KCPE)

WORK/ EXPERIENCE

Date: 12th August 2019 to 29th February 2020.
Title: Synthesis of Schiff base palladium complexes and determination of anticancer and other biological activities.

Institution: University of the Western Cape, Department of Chemical Sciences, South Africa.

Roles: Roles involved drying of solvents to be used in synthesis using standard procedure, Synthesis of Schiff base of thiophene moiety, monitoring reaction and optimization, characterization using Uv-Vis, NMR, FT-IR, elemental analysis and single crystal X-ray crystallography. After structural elucidation, biological activities investigations were carried out where flow cytometry was used. This exposed me to instrumentation and instrumental methods of analysis.

Date: 13th July 2018 to 18th Marchy 2020.

Title: Water and quality analysis in industrial Area, Nairobi.

Institution: University of Nairobi.

Roles: Roles involved determination of the amounts of heavy metals, organic compounds and bacteria in water discharged from industries and advising on ways of purifying discharges.

Date: 1st September 2016 to 31st December 2017.

Title: Research assistant in Natural products laboratory.

Institution: University of Nairobi, Department of chemistry.

Roles: Isolation of phytochemicals from the following traditional medicinal plant species: *Sphaeranthussuaveolens*: *Sphaeranthusballatus*:

Clerodendrumjonstonii & *Clerodendrumincisum*.

The duties involved sample preparation, extraction, isolation and analytical characterization of secondary metabolites. Analytical involved Nuclear Magnetic Resonance (NMR), FTIR, UV-Vis and elemental analysis.

Date: 5th February 2017 to 3rd July 2020.

Title: Research assistant in Bioprospecting laboratory.

Institution: University of Nairobi, Department of Biochemistry

Roles: Duties involved isolation of cellulase and pectinase enzymes from environmental microbes and waste from

sisal plant. These enzymes are used for green degradation of environmental pollutants.

Research Interest

Synthesis of Platinum Group Metals (PGM) Schiff base complexes and their applications in medicine and catalysis. Understanding the coordination modes, solubility and stabilities in regards to the applications.

MEMBERSHIP OF PROFESSIONAL AND ACADEMIC ASSOCIATIONS

- Member of Royal Society of Chemistry(RSC)
- Member of Kenya Chemical Society(KCS)
- Student representative at University of Nairobi Industrial Chemistry Student Association(UNICSA)

REFEREES

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