



## Curriculum Vitae

### Personal information

Name	Benson Muriuki
Tel. Mobile:	+254 721 603764
E-mail	gakombi@yahoo.com
Nationality	Kenyan
Gender	Male
Current Address	Nairobi Technical Training Institute P.O. Box 30039-00100 Nairobi

### Education background

Dates	2013- to date
Qualification	Doctor of Philosophy Candidate ( Medicinal Chemistry)
Subjects/skills	QSAR and Selectivity-Index based Antimycobacterial Drug Development from Ethnobotanical-Based Phytochemicals and their Derivatives.
Institution	College of Health Sciences- JKUAT.
Dates	2005-2010
Qualification	Master of Science ( Medicinal Chemistry)
Subjects/skills	General Pharmacology and Toxicology, Organic and Inorganic Synthesis, Phytochemicals Characterization, Drug design and Development, SARs and QSARs, Epidemiology, Demography and Biostatistics, Chromatographic and Spectroscopic Methods, Drug Metabolism, Computers in Medical Research, Research on Antimycobacterial Ethnobotanical Leads
Institution	Institute of Tropical Medicine and Infectious Diseases, Jomo Kenyatta University of Agriculture and Technology
Dates	2006
Qualification	KNEC Examiner- Technical Examinations ( Pharmaceutical Chemistry)
Subjects/skills	Principals and procedures in Diploma Pharmaceutical Chemistry, Ethics and integrity,
Institution	Kenya National Examination Council
Dates	1995-96
Qualification	Post graduate diploma in education (PGDE)
Subjects/skills	Sociology, Psychology, Management, teaching methodology and educational research.
Institution	Egerton University



Dates	1992
Qualification	Certificate (Food quality control microbiology)
Subjects/skills	Statistical QC, HACCP, bacteriology etc
Institution	Kenya Polytechnic
Dates	1987-1990
Qualification	Bachelor of Science
Subjects/skills	Biochemistry and Chemistry
Institution	University of Nairobi, Nairobi Kenya
Dates	1984-1985
Qualification	Kenya Advanced Certificate of Education (KACE)
Subjects/skills	Physics, Biology, Chemistry and subsidiary Mathematics
School	Nairobi School (Performance – two Principals and three subsidiary passes)
Dates	1980-1983
Qualification	Kenya Certificate of Education (KCE)
School	Thika High school (performance Division 1)
Dates	1972-1979
Qualification	Certificate of Primary Education (CPE) (34 out of 36 points)
School	Kabaru primary school

### Work experience

Date	2013-
Institution	Kenyatta University- Department of Pharmacy and Complementary Medicine
Position held	Lecturer on Part-time basis:- Teaching Pharmaceutical Chemistry (Pharmacodynamic agents, Chemotherapeutic agents and Inorganic Pharmaceuticals)
Date	2012- to date
Institution	Technical University of Kenya
Position held	Lecturer on Part-time basis Teaching:- <ol style="list-style-type: none"><li>1. Inorganic Pharmaceutical Chemistry, Radiopharmaceuticals, Pharmaceutical Analysis and Pharmacognosy</li><li>2. Pharmacognosy &amp; General Pharmacology to B.Phil. (Applied biology) students</li></ol>



Date	2011 –to date
Institution	Kabete Technical Training Institute
Position held	Lecturer on Part-time basis:- Teaching Medicinal Chemistry, Inorganic Pharmaceutical Chemistry, Radiopharmaceuticals, Pharmaceutical analysis and Pharmacognosy to Diploma in Pharmaceutical Technology students.
Date	2007 – to date
Institution	Nairobi Technical Training Institute
Position held	Lecturer on permanent basis: - Teaching Pharmaceutical Chemistry, Pharmacognosy, General Pharmacology & Toxicology and Biochemistry to various Diploma classes. Projects and Industrial attachment supervision.
Date	2008- to date
Institution	Kenya National Examination Council
Position held	Examiner on contract basis:- Setting, moderation, assessing and marking Diploma in Pharmaceutical Technology Exams (Pharmaceutical Chemistry)
Date	2003-2004
Institution	Jomo Kenyatta University of Agriculture and Technology
Position held	Part- time Technologist:- preparing and teaching Biochemistry practicals ( Enzymes and proteins) at KSTC
Dates	1996-2005
Institution	Kenya Science teachers college (Nairobi)
Position held	Lecturer:-Teaching organic, inorganic, general and physical chemistry to diploma in Education students. Teaching Practice and Chemistry projects supervision.
Dates	1990-1994
Institution	Muguga Wa Gatonye Secondary School
Position held	High school teacher :-Teaching Chemistry, Biology and Physics and School Games master

### Personal skills and competences

Language(s)	English, Kiswahili & Kikuyu
Organisational skills and competences	<ol style="list-style-type: none"><li>1. Chairman Centre for the empowerment of local herbalists (CELOH)</li><li>2. Coordinator- pharmacology, toxicology, animal husbandly, entomology and plant pathology course at Nairobi Technical Training Institute.</li><li>3 Animal house coordinator at Nairobi Technical Training Institute.</li></ol>



Technical skills and competences	<ol style="list-style-type: none"><li>1. Laboratory work/research – <i>in vitro</i> and <i>in vivo</i> mycobacteriological skills.</li><li>2. Pharmaceutical Chemistry Examiner with KNEC</li><li>3. Judge on contract basis since 2002 – Chemistry exhibits and talks for Students Congress on Science and Technology ( Currently Science and Engineering fare)</li><li>4. Students' Projects and Industrial Attachment Supervision</li></ol>
Computer skills and competences	Competent in most Microsoft programs

### Publications/Papers

#### 1. Authored

- i). Muriuki, B.; Midiwo, J. O.; Mbugua, P.M.; Gikunju, J. K. (2015). Alternative Medicine In Kenya; A Status Review and A Preliminary Report On The *In Vitro* Anti-Tb Activity of Some Crude Herbal Extracts; Manuscript under peer review
- ii) Muriuki, B.; Midiwo, J. O.; Mbugua, P.M.; Keriko, J. M. (2013). The antimycobacterial MICs, SARs and QSARs of some ethnobotanically selected phytochemicals. *Medicinal Chemistry Research*. DOI 10.1007/s00044-013-0485-8
- iii) Muriuki, B.; Midiwo, J. O. (2010) Summary Report on The Herbal Product *Kamzole*; Center For The Empowerment of The Local Herbalist's analysis report for registration application of the herbal product by the Pharmacy and Poisons Board.
- iv) Muriuki, B. (1995) A Comparison Between KCE and KCSE Chemistry Syllabuses; Post Graduate Research Paper Egerton University – Open Source Archive.

#### 2. Peer reviewed manuscripts

- i. Synthesis and biological evaluation of 7-trifluoromethyl substituted 4-aminoquinoline derivatives as antileishmanial agents; Manuscript Number: MCRE-D-15-00143; *Medicinal Chemistry Research* ( Feb. 2015).
- ii. Neuroprotective constituents from root of *Pueraria lobata* against glutamate-induced neuronal apoptosis; Manuscript Number: MCRE-D-14-01035; *Medicinal Chemistry Research* ( Sept. 2014).
- iii. Nitro derivatives of  $\beta$ -asarone from *Acorus calamus*: Anticancer activity; Manuscript Number: MCRE-D-14-00119; *Medicinal Chemistry Research* ( Feb. 2014).
- iv. Isolation and identification of bioactive compounds from twigs of *Artocarpus altilis*- *Manuscript Number: IJMPAM-13-014- INTERNATIONAL JOURNAL OF MEDICINAL PLANTS AND ALTERNATIVE MEDICINE* (AUGUST 2013).
- v. QSAR Study of active human glucagon receptor antagonists containing a pyrazole core by Multiple Linear Regression(MLR) method- *Manuscript Number: MCRE-3564 - Medicinal Chemistry Research* (2013).
- vi. Cathepsin D protease inhibition activity of *Punica granatum* fruit peel extracts, isolates and semisynthetic analogues *Manuscript Number: MCRE-2368 -Medicinal Chemistry Research* (2012).
- vii. Phytochemical, Cytotoxic, Hepatoprotective and Antioxidant Properties of *Delonix regia* Leaves Extract- *Manuscript Number: MCRE-2907 Medicinal Chemistry Research* (2012).



### **Professional association, membership and involvement**

1. Stakeholder HEALTH BILL 2014 – Participated in the review of the Kenyan HEALTH DRAFT BILL 2014 at the KENYA SCHOOL OF GOVERNMENT in July and August 2014 as a CELOH representative.
2. Chairman – Centre for the Empowerment of the Local Herbalist, (CELOH)
3. Peer reviewer with *Medicinal Chem. Research journal*
4. Peer reviewer for the INTERNATIONAL JOURNAL OF MEDICINAL PLANTS AND ALTERNATIVE MEDICINE
5. Online Member- Medscape infectious Diseases (WebMD Email Newsletters 111 Eighth Avenue New York)
6. ResearchGate online membership and participation
7. Scientific data collection and compilation to enable registration of Herbal products with the Pharmacy and Poisons Board – Conversant with the PPB's Guidelines to Submission of Applications for Registration of Herbal and Complimentary Products.

### **Referees**

Professor J.O. Midiwo  
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