

ACADEMIC STAFF PROFILE

Name: GLADYS NYAMOITA MOKUA Title/Qualification: DR. Department: PHARMACOGNOSY & PHARMACEUTICAL CHEMISTRY Designation/Position: LECTURER Email: mokua.gladys@ku.ac.ke/ mokuag@yahoo.com Contact Address: 43844-00100, Nairobi Area of Specialization: NATURAL PRODUCTS CHEMISTRY/CHEMICAL SCIENCE Research Interests: • Research in Natural Products Chemistry, Screening and toxicity evaluation of traditionally used plants, biological testing of plants for their antimicrobial, antiepileptic, antidiabetic, antimalarial, anti-HIV and insecticidal activities; • Development and formulation of phytomedicines and botanical insecticides; • Analytical chemistry research and medical research in general. ORCID ID: https://orcid.org/0000-0001-8810-0273	
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ACADEMIC & PROFESSIONAL QUALIFICATIONS

PhD (2014) : PhD Muhimbili University of Health and Allied Sciences, Institute of Traditional Medicine (By Thesis, Examination & Publication) Research Fellow at the International Centre of Insect Physiology and Ecology (ICIPE)

PhD Research Topic : Laboratory and semi-field evaluation of some *Vitex* species for larvicidal activity against *Anopheles gambiae* larvae

Area of Specialization : Medicinal Chemistry (Phytochemistry)/Chemical Science

MSc. (Chemistry) : Kenyatta University (2008). Master of Science (MSc.) in Chemistry (By Course Work, Examination and Thesis)

Thesis Topic : Extraction and identification of anti-larval *compounds* and insect growth regulators from *Vitex* species for the control of *Anopheles gambiae* mosquitoes at the larval stage.

Area of Specialization : Medicinal Chemistry (Phytochemistry)

P.G.D.E : Egerton University (2000)

Qualification : Distinction

Bachelors : Moi University (1997) Bachelor of Science (BSc.) (Chemistry and Mathematics)

Qualification : Second Class (Hons.) Upper Division)

KCSE : Limuru Girls School, 1991

KCPE : Morako Primary School, 1987

EMPLOYMENT HISTORY

Feb. 2015 - Present : Lecturer

Employer : Kenyatta University, Department of Pharmacognosy and Pharmaceutical Chemistry, P.O. Box 43844, Nairobi

Sept. 2012-Feb. 2015 : Tutorial Fellow,

Employer : Kenyatta University, Department of Pharmacognosy

and Pharmaceutical Chemistry,
P.O. Box 43844, Nairobi

March 2011- Sept. 2012 : Assistant Commission Secretary, Accreditation and
Quality Assurance (Inspection)

Employer : Commission for Higher Education/Commission for
University Education,
P.O. Box 54999-00200,
Nairobi.

September 2005–March 2011 :Lecturer of Chemistry, Kabete Technical Training Institute

Teaching Units : Organic chemistry, Inorganic chemistry, Physical
chemistry, Instrumental Methods of Analysis, Chemical
Methods of Analysis (Diploma classes); and Chemistry
Techniques (Science laboratory and Technology class).

Employer : TEACHERS SERVICE COMMISSION
PRIVATE BAG,
NAIROBI.

Responsibilities : Teaching and research, Secretary Research and
Development in the institution, supervising third years’
technical trade projects, setting, moderating,
administering and marking assessment tests and end of
term exams and Section Head for Diploma in
Analytical Chemistry.

January 2008-2010 : Part time lecturer of Organic Chemistry at Mount
Kenya University, Department of Pharmacy and
Medical Laboratory Sciences.

January 2008-2010 : Part time lecturer of Chemistry at the Kenya
Polytechnic University College, Department of Building
and Civil Engineering.

PUBLICATIONS

Referred Journals

1. Geoffrey Mokua Maroko, Gladys Nyamoita Mokua, Augustus Onchari Nyakundi, Meshack Ondora Onyambu. (2021). Abagusii traditional environmental knowledge and HIV/AIDS management: Implications for English language teaching. *Journal of Language and Ecology*.
2. Meshack Ondora Onyambu, Gladys Nyamoita Mokua, Geoffrey Mokua Maroko, Augustus Onchari Nyakundi. (2021). Use of Complementary and Alternative Medicine Interventions in the Management of HIV/AIDS in Kisii County, Kenya: A Qualitative Study of Traditional Healers. *Asian Journal of Traditional, Complementary and Alternative Medicines*. Vol. 4(1-2):4-18.
3. Gladys Nyamoita Mokua, Geoffrey Mokua Maroko, Augustus Onchari Nyakundi, Meshack Ondora Onyambu. (2019). HIV/AIDS in Kisii County: Current Status and Challenges. *International Journal of HIV/AIDS Prevention, Education and Behavioural Science*. Vol. 5 (2): 147-155. doi: 10.11648/j.ijhpebs.20190502.20.
4. Gladys Nyamoita Mokua, Geoffrey Mokua Maroko, Augustus Onchari Nyakundi, Meshack Ondora Onyambu. (2020). Nine medicinal plants used in management of HIV/AIDS in Kisii County, Kenya. *Journal of Medicinal Plants Studies*. Vol. 8(5): 197-203. Available on line at <http://www.plantsjournal.com>
5. Geoffrey Mokua Maroko, Gladys Nyamoita Mokua, Augustus Onchari Nyakundi, Meshack Ondora Onyambu. (2020). A Conceptual Analysis of Metaphors Engendering HIV and AIDS-Related Stigma and Discrimination in Kisii County, Kenya. *Language Circle: Journal of Language and Literature*. Vol. 14 (2): Available online at <http://journal.unnes.ac.id/nju/index.php/LC> P-ISSN 1858-0157 E-ISSN 2460-853X.
6. Augustus Onchari Nyakundi, Geoffrey Mokua Maroko, Gladys Nyamoita Mokua, Meshack Ondora Onyambu. (2020). Stakeholder Engagement and Management as a Determinant Of Health Intervention Outcomes: The Varied Messages Communicated During HIV and AIDS Interventions In Kisii County, Kenya. *International Journal of Communication Research*. Vol. 10 (2): 419-430.
7. Geoffrey Mokua Maroko, Gladys Nyamoita Mokua, Augustus Onchari Nyakundi, Meshack Ondora Onyambu (2019). Partner Notification Services In Kisii County,

- Kenya: Evaluating Behaviour Change Communication Strategies. *Journal of Development Communication*. Vol.30 (2): AIDCOM
8. Augustus Onchari Nyakundi, Geoffrey Mokuia Maroko, Gladys Nyamoita Mokuia, Meshack Ondora Onyambu. (2019). Communication Strategies in the Management of HIV and AIDS in Kisii County, Kenya: Successes and Gaps. *International Journal of Communication Research*. Vol. 9 (4): 339-350.
 9. Mokuia G.N., Innocent E., Mbwambo H. Z., Lwande W., Ochola J. B., HassanaliA. (2013). Comparison of the Effects of Extracts from Three Vitex Plant Species on *Anopheles gambiae* s.s. (Diptera: Culicidae) Larvae. *Acta Tropica* 127: 199-203.
 10. Mokuia G.N., Innocent E., Mbwambo H. Z., Lwande W., Ochola J. B., HassanaliA. (2013). Time-course effects of *Vitex schiliebenii* (Verbenaceae) solvent extracts on *Anopheles gambiae* giles s.s. larvae under simulated semi-field conditions. *Novus Natural Science Research*. 2 (1): 1-8.
 11. Mokuia G.N., Innocent E., Mbwambo H. Z., Lwande W., Ochola J. B., HassanaliA. (2013). Larvicidal and brine shrimp activities of *Vitex schiliebenii* extracts and isolated phytoecdysteroids on *Anopheles gambiae* giles s.s larvae. *Journal of Applied Pharmaceutical Science*. 3 (5): 91-95.
 12. Mokuia G.N., Mbwambo H. Z., Ochola J. B., Lwande W., Innocent E., HassanaliA. (2013). Chemical composition and evaluation of mosquitolarvicidal activity of *Vitex payos* extracts against *Anopheles gambiae* Giles S.S larvae. *Spatula Drug Discovery*. 3 (3): 113-120.
 13. Mokuia G.N. (2013). Toxicity of Individual and Blends of Pure Phytoecdysteroids Isolated from *Vitex chiliebenii* and *Vitex payos* against *Anopheles gambiae* S.S. Larvae. *World Journal of Organic Chemistry*, 1 (1): 1-5
 14. Anti-Larval Activity of Crude Plant Extracts from *Vitex schiliebenii* and *Vitex payos* (Verbenaceae) in the Proceedings of Pan African Chemistry Network Biodiversity Conference (September 10-12, 2008).

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CONFERENCE/WORKSHOPS/SEMINAR PAPERS

Conference Papers

- Mar. 11-12th 2021** : Presented a paper on “**Review of Self-Medication Patterns in the Context of COVID-19**” at the 5th Bioethics Society of Kenya Conference.
- Oct. 2. 2015** : Presented a paper at the 1st Global Patient Centered-care Conference held at Kenyatta University entitled “**Evaluation of analgesic properties and phytochemical screening of *Tithonia diversifolia* leaf extract**”.
- June 26. 2015** : Presented a paper at the Kenya National Academy of Sciences (KNAS) entitled “**Integration of Complementary/Alternative Medicine into the Pharmacy Curriculum of Kenyatta University**”.
- Oct. 2014** : Presented a paper at the Second Malaria Forum entitled “**Comparison of the Effects of Extracts from Three *Vitex* Plant Species on *Anopheles gambiae* s.s. (Diptera: Culicidae) Larvae**”.
- Aug. 8TH -12TH 2011** : Presented a paper at the 14th Symposium of the Natural Product Research Network for Eastern and Central Africa (NAPRECA) held at ICIPE, Kenya. **Evaluation of Larvicidal Activity and Phytoextract Induced Morphological Disruptions of *Vitex Schiliebenii* Extracts Against *Anopheles Gambiae* Larvae.**
- July 6TH-8TH 2010** : Presented a paper at the 18th International Scientific Conference on Biomedical Research entitled: **The Insect Growth Regulatory (IGR) Activity of Compounds Isolated from *Vitex schiliebenii*.** The venue was at Kenya Institute of Education, Nairobi, Kenya.
- May 28TH 2010** : Presented a paper at the Technical Industrial Vocational

and Entrepreneurship Training (TIVET) Trade Fair entitled: **Science Education- A Servant of Mankind**. The Theme of the trade fair was **Science, Technology and Innovation for Sustainable Development**. The venue was at Kenyatta International Conference Centre (KICC) and it was organized by the Kenya Association of Technical Training Institutes (KATTI).

Sept. 10TH-12TH 2008 : Presented a paper at a Pan African Chemistry Network Conference (PACN) on Biodiversity at UoN, Chiromo campus entitled: **‘Opportunities of Africa Natural Products in Health and Agriculture’**. The conference was organized by the Royal Society of Chemistry (RSC) with a special focus on the Millennium Development Goals.

Workshops Papers

Sept. 3rd 2014 : Trained faculty in the School of Medicine, Kenyatta University on manuscript writing.

November 2011 : Participated in two workshops, one on peer reviewers training and the other on stakeholders’ workshop on criteria for rating of Kenyan Universities organized by the Commission for Higher Education.

Dec. 2002 : Facilitated a workshop on the improvement of Mathematics and Sciences in Secondary schools. The workshop was at Kisii High school sponsored by Japan International Corporation Agency.

Seminar Papers

October 2006 : Presented my MSc. Seminar paper at ICIPE entitled: Antilarval compounds from *Vitex payos* and *Vitex schilliebenii*.

Student Co-authored Publications

1. Urbanus Mutiso Muthusi, Mokua Gladys Nyamoita, Macharia Stephen (2019). Contribution of Completed Modified World Health Organization Partograph on Maternal and Foetal Mortality Reduction in Health Facilities in Makueni County, Kenya. *Central African Journal of Public Health* Vol 5(6): 227-236.
2. Lucinde Beatrice Inzera, Mokua Gladys Nyamoita, Stanley M. Kimuhu (2020). Socio-Demographic Characteristic and Association of Utilization of Long Acting Reversible Contraceptive Among Commercial Sex Workers In Nairobi County Slum. *Journal of Health, Medicine and Nursing*. Vol.5 (2): 18- 39.

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Research

HIV prevention strategies in Kisii County sponsored by the National Research Fund (NRF), Kenya (2018-2022)

Funded Projects

HIV prevention strategies in Kisii County sponsored by the National Research Fund (NRF), Kenya (2018-2022)

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CONFERENCED/WORKSHOPS/SEMINARS ATTENDED

Workshops Attended

2023	:	RStudio for Scientists
2023	:	Assessment Advanced Excel Course
2023	:	Large-Scale Renewable Energy Deployment for Climate Change Mitigation
2023	:	Digital Teaching
2023	:	Air Quality Management
2021	:	Workshop on ‘Global Research Ethics – Africa Academic Researcher Workshop, Kenya.
1st Dec. 2020-19th Jan. 2021	:	Health Professional Education Partnership Initiative (HEPI) and Inter-professional Education (IPE) Training
May 18th 2018	:	Attended a symposium on Patient Safety and Care

- at UoN, College of Health Sciences, KNH Campus.
- March 20-24 2017** : Attended a training in Leadership and Management at University of Nairobi, College of Health Sciences.
- June 2012** : Attended as workshop on Scientific Writing and Grant Application at the School of Physical Sciences, University of Nairobi organized by the Pan African Chemistry Network and INASP
- November 2011** : Participated in two workshops, one on peer reviewers training and the other on stakeholders' workshop on criteria for rating of Kenyan Universities organized by the Commission for Higher Education.
- March 24TH -25TH 2011** : Attended a stakeholders' workshop on external peer review organized by the Commission for Higher Education and DAAD.
- 14TH Dec. 2010** : Attended a workshop on *Strengthening Networks in Higher Education Partnerships* organized at the British Council, Dar es Salaam, Tanzania.
- 7TH Dec. 2010** : Attended a Natural Products Colloquium at Muhimbili University of Health and Allied Sciences, Institute of Traditional Medicine entitled: **From the Deepest to the Driest Place on Earth- Natural Products from Extreme Environments.**
- Dec. 2002** : Facilitated a workshop on the improvement of

Mathematics and Sciences in Secondary schools.
The workshop was at Kisii High school sponsored
by Japan International Corporation Agency.

Seminars Attended

2021: Online seminar on Cancer genetics

Feb. 9th 2021 : Attended a Seminar on the Hallmarks of Cancer
Towards Identifying Research Gaps

Nov. 18th 2020 : Virtual Seminar on Where to Publish

June 16TH -18TH 2010 : Attended a Kenya Association of Technical Training
(KATTI) Institute seminar on Science, Technology and
Innovation for the achievement of vision 2030.

SUPERVISION OF POSTGRADUATE STUDENTS

Masters

S/No	Name of student	Thesis title	Status of project(e.g. First year etc)
1.	Beatrice Lucinde	Utilization of Long Acting Reversible Contraceptives Among Commercial Sex Workers Aged 15 To 49 Years In Nairobi County	Completed 2021
2.	Urbanus Mutiso Muthusi (BSc.N)	Knowledge and Utilization of Partograph among Obstetric Caregivers in Health facilities in Makueni County	Completed 2022
3.	Amelia Liabule	Assessment of Physico-Chemical Parameters and Selected Inorganic Chemicals in River Mkurumdzi water, Sediments and Fish and their Health Implications on Consumer Communities in Kwale County, Kenya (Case Study Of Titanium Mining)	Data collection-2 nd year

4.	Mutuku Sylvester Muoka (BSc. N)	Factors Affecting Utilization Of Hepatitis B Virus Vaccine Among Health Care Workers In Tharaka Nithi County	Completed proposal preparation-2 nd year
5.	Patrick Waithaka Kamundia	Factors Affecting National Hospital Insurance Fund Uptake among Informal Sector Inpatients at Kiambu Level 4 Hospital in Kenya	Proposal preparation- 2 nd year
6.	Risala Hussein	Assessment of the Influence of Anti- FGM Campaign on Female Genital Mutilation Practices in Garissa County, Kenya	Proposal preparation- 2 nd year
7.	Vivian Khatenje Shikoli	Exposure levels of oxides of nitrogen and its health implications among hawkers in Nairobi county, Kenya	Data collection- 2 nd year

Professional/ Consultancy (Editor/ Peer review in journals, Networks/ Collaborations, External Examiner, Patents)

HIV prevention strategies in Kisii County sponsored by the National Research Fund (NRF), Kenya (2018-2022) a collaborative research with Machakos and Chuka University.

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Community Service and Other Engagements

Working with seven support groups of people living with HIV/AIDS in Kisii County

Affiliation of Professional Bodies

- 1) Pan African Chemistry Network (PACN), Kenya
- 2) Kenya Chemical Society (KCS)
- 3) Natural Products Research Network for Eastern and Central Africa (NAPRECA)

ADMINISTRATIVE POSITIONS HELD

Recognized university administrative positions

- (a) Co-chair, School of Health Sciences Board of Postgraduate Studies Committee (2023)
- (b) Chairperson, School of Pharmacy Programme Development Committee (2021)
- (c) School of Pharmacy e-Learning Coordinator (2020)

(d) Chairperson, School of Pharmacy postgraduate studies committee. (2016)

(e) A departmental postgraduate representative to the School of Medicine. (2014)

Examination coordinator in the department of Pharmacy and Complementary Medicine

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OTHER ADMINISTRATIVE POSITIONS HELD

(a) At the Commission for University Education (CUE), my work assignment included ensuring quality in higher institutions of learning in terms of programmes, governance, physical facilities, library resources, human resources and financial resources. I also participate in peer reviewers training, seminars, workshops and review of quality standards in matters of higher learning and training. At the departmental level I was in charge of private universities' inspections, compiling of inspection reports and presenting the same to the Commission's Institutional Accreditation Committee and also as the inspection department secretary.

(b) I was head of the Chemistry section in the Applied Science Department at Kabete Technical