

CURRICULUM VITAE

PERSONAL INFORMATION

FULL NAMES	MARTIN NJOGU MBUGUA (Dr)
DATE OF BIRTH	15 th May, 1968
NATIONALITY	Kenyan
MARITAL STATUS	Widowed
CURRENT POSITION	Lecturer and researcher, Department of Chemistry/UoN SMU Manager, Kenya Science Campus
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EDUCATIONAL BACKGROUND

- 1. University of Nairobi** **2003-2007**
 - Doctor of Philosophy
 - Chemistry
 - Master of Science **1993-2001**
 - Chemistry
- 2. Egerton University, Kenya** **1988-1991**
 - Bachelor of Science (Hons.)
 - Major Chemistry
 - Maths
- 3. Ndururumo High School** **1986-1987**
 - Kenya Certificate of Advanced Education
- 4. Githiga High School** **1982-1985**
 - Kenya Certificate of Education

SUMMARY OF PROFESSIONAL/WORK EXPERIENCE

I began my career in the Department of Chemistry at the University of Nairobi as a graduate assistant and researcher in 2003. I was appointed as a part-time lecturer in November, 2005 where my duties included teaching, research and supervision of undergraduate research projects.

In October, 2007 I was appointed as a lecturer and Coordinator of the chemistry department at Kenya Science Campus. I was responsible for the efficient transformation of the department to suit university status. Additional duties included running of the department by supervising both teaching and non-teaching staff.

In January, 2009 I was appointed as the Kenya Science Campus Strategic Management Unit (SMU) Manager. I am responsible for the efficient, effective and equitable operation of this unit. Other duties include; developing income generating strategies and facilitating achievement of the welfare's overall objective, procurement, payment and control of supplies, supervision and appraisal of staff.

I have also contributed immensely to the growth in the education sector by chairing and serving in several school boards.

I possess strong commitment to team environment dynamics with the ability to contribute expertise and follow leadership directives at appropriate times. Additionally, I am able to set and achieve challenging goals while demonstrating persistence, commitment and dedication. This has led to my rapid rise and appointment to several important positions in and outside the university.

EMPLOYMENT

1. UNIVERSITY OF NAIROBI

2005-Present

Lecturer and Researcher, Department of Chemistry / SMU

Manager, Kenya science Campus (Strategic Management Unit)

Responsibilities as a lecturer and researcher.

- Teaching both undergraduate and postgraduate students
- Conduct research and supervise student research projects.
- Internal and external examination of thesis.
- Publishing research findings in local and international journals.
- Sourcing for research grants from local and international bodies.

Responsibilities as SMU-Manager

January-2010 to present

I am responsible to the Director, Students Welfare Authority (SWA) for the efficient, effective and equitable operation of the Kenya Science Campus SMU in the delivery of services to students. Other duties include:-

- Developing both short-term and long-term strategic plans for the SMU.
- Managing accommodation and catering services.
- Handling personnel matters in the SMU.
- Handling all the financial affairs. .
- Procurement, payment and control of supplies.
- Custodian of all accountable documents and responsible for their security.
- Ensuring proper register, maintenance and disposal of all assets.
- Responding to student enquiries relating to services offered by the Authority.
- Ensuring proper student discipline within the halls of residence.
- Appraisal of staff performance and providing appropriate incentives.
- Overseeing the implementation of performance contracting for the unit.
- Chairing the health and safety committee.
- Ensuring ISO standards are maintained.

OTHER RESPONSIBILITIES IN THE UNIVERSITY

- Member of College of Biological and Physical Sciences Timetabling Committee **2007-2009**
- Coordinator of Chemistry for Kenya Science campus **2007-2009**
- Staff commissioner for SONU elections **2011 to date**
- Acting as Deputy principal for KSC-Campus
- Acting as Associate dean for KSC-Campus

OTHER LEADERSHIP POSITIONS HELD

- **CURRENTLY:** Chairman of Limuru Constituency Development Fund
- **2012 to date:** Chairman of Limuru Town Primary School Management Committee
- **2011 to date:** Member of St. Joseph junior Seminary BOG
- **2011 to date:** Member of Bibirioni Boys secondary school BOG
- **2011 to date:** Member of State House Girls School PTA
- **2008-2012:** Member of Limuru Town Primary School Management committee
- **1989-1991:** Vice chairman of Young Catholic Students-Egerton University

RESEARCH EXPERIENCE

- Extraction and structural determination of oils from locally growing plants such as *Vernonia galamensis*
- Studies on vernonia oil by conversion of vernonia oil to pyridinyl- and aminoalkyl vernolamides and investigation of the antimicrobial activities of these compounds.
- Synthesis of peptides such as glucagon and its analogues followed by studies of their biological activities.
- Studies on the use of allyl and allyloxycarbonyl protecting groups in the preparation of ring constrained glucagon analogues.
- Selective radiolabeling of glucagon for receptor binding studies.

RESEARCH VISIT

- Six months research visit under the supervision of Prof. Dr. Annette Beck-Sickinger, Institute of Biochemistry, University of Leipzig, Germany. (June-December, 2005)

PROFESSIONAL MEMBERSHIP

- Kenya Chemical Society (KCS)
- Natural Products Research Chemists Association (NAPRECA)

PRESENTATIONS

- Extraction of Vernonia oil from Vernonia galamensis seeds and its aminolysis to vernolamides. MSc defence, University of Nairobi, 2001.
- Synthesis and bioactivity studies of ring constrained glucagon analogues. Ph.D. Proposal defense, University of Nairobi, 2003.
- Selective radio-labeling of glucagon for studying the binding assays of glucagon analogues, External group-seminar, Rugen Island, Bobbin, Germany, 2005.
- Synthesis and binding studies of ring constrained glucagon analogues, Ph.D Oral defense seminar, University of Nairobi, 2007

TRAINING AND WORKSHOPS

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|---|-------------|
| • Team building | 2012 |
| • Performance contracting | 2011 |
| • Finance for non-financial managers | 2011 |
| • ISO 9001:2008 Certification | 2010 |
| • Proposal writing Part I in Entebbe, Uganda | 2009 |
| • Proposal writing Part II in Naivasha, Kenya | 2010 |

SUPERVISIONS

I have supervised to completion **four MSc** and **one Ph.D** student.

PUBLICATIONS

1. **M. N. Mbugua**, (2001). Extraction of vernonia oil from *Vernonia galamensis* seeds and its aminolysis to vernolamides. **MSc thesis**, University of Nairobi.
2. **M. N. Mbugua**, A. O. Yusuf, B. M. Bhatt and P. M. Gitu (2006). Synthesis of aminoalkyl vernolamides from vernonia oil at varied conditions, *Journal of Kenya Chemical Society*, **3** (1), 1-8.
3. **M. N. Mbugua**, A. O. Yusuf, B. M. Bhatt and P. M. Gitu (2007): Conversion of *Vernonia galamensis* oil to pyridinyl-vernolamides and their biological activities, *Bull. Chem. Soc. Ethiopia*, **21**(1), 103-110.
4. **M. N. Mbugua**, (2007). Synthesis and binding studies of ring constrained glucagon analogues. Ph.D thesis University of Nairobi, Department of Chemistry, 200p.(Supervised by Dr A.O. Yusuf and Prof. P.M. Gitu).
5. Abiy Yenesew, Hannington Twinomuhwezi, Bernard T. Kiremire, **Martin N. Mbugua**, Peter, M. Gitu, Matthias Heydenreich, Martin G. Peter (2009). 8-Methoxyneorautenol and Radical Scavenging flavonoids from *Erythrina abyssinica*, *Bull. Chem. Soc. Ethiopia*, **23**(3), 205-210.
6. Yenesew, A., Twinomuhwezi, H., Kiremire, B.T., **Mbugua, M.N.**, Gitu, P.M., Heydenreich M., Peter M.G. (2009). 8-Methoxyneorautenol and Radical Scavenging flavonoids from *Erythrina abyssinica*. **Bull. Chem. Soc. Ethiopia** **23**, 205-210.
7. Endale, M., Alao, J.P. Akala, H.M., Rono, N. K., Eyase, F.L., Derese, S., Ndakala, A., **Mbugua, M.N.**, Walsh, D.S., Sunnerhagen, P., Erdelyi, M., **Yenesew, A.** (2012). Antiplasmodial Quinones from *Pentas longiflora* and *Pentas lanceolata*. *Planta medica* **78**, 31-35.
8. Milkyas Endale, Annabel Ekberg, Hoseah M. Akala, Fredrick L. Eyase, Douglas S. Walsh, **Martin Mbugua**, Albert Ndakala, John Patrick Alao, Per Sunnerhagen, Máté Erdelyi, Abiy Yenesew (2012) Pentadihydronaphthoquinones A-D from the Roots of *Pentas bussei*, *Submitted to Organic and Biomolecular Chemistry*.

REFEREES

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