

CULLICULUM VITAE

ELIAKIM MBAKA

Kenyatta University,

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Department of Biochemistry and Biotechnology

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PERSONAL INFORMATION:

Date of Birth : 1988

Marital Status : Engaged

Gender : Male

Nationality : Kenyan

PERSONAL PROFILE:

Enthusiastic with integrity and character, self motivated am a hard working, able to work under pressure, for long hours and under minimum supervision with flexibility where necessary. I am a computer literate. I have good communication skills, trustworthy, of great inspiration and open to make a suggestion that seems to be important.

CAREER ASPIRATION:

A biochemist and chemist who is an effective and competent lecturer and researcher in Biochemistry, Chemistry, health and well being, molecular and genetic engineering, bioinformatics, Pharmacology and Drug designing.. To work in a challenging and dynamic institution or organization in Biochemistry, chemistry, Biotechnology, Pharmacology and drug designing, Genetic and Molecular biology and Microbiology research with dedication, creativity and implementation of existing policies through teamwork.

PROFESSIONAL QUALIFICATION:

2015-2018: Pursuing PhD in Medical Biochemisrty research title “Determination and Molecular Inhibition of urinary tract infection by 23S rDNA sequence”

2008-2010: Periyar University ,India.

□ *Msc. Biochemisrty (First Class Honors)*

Course work:

Thesis on molecular identification of soil bacteria by 16SrDNA sequence.

General Biochemistry, Techniques in Biochemistry and Analytical chemistry, Haematology, Enzymology, Microbiology, Physiology and endocrinology, Molecular Biology Immunology, Medical Biochemistry, Genetic Engineering, Genomics and Bioinformatics, Computer Applications in Biochemistry. Laboratory in Biochemical Techniques, Lab in Immunology and Medical Microbiology, Lab in Molecular Biology, Genetics and bioinformatics, Lab in Applied Microbiology, Lab in Genetic Engineering and Biotechnology.

2005-2008: Periyar University, India

□ **Bsc. Biochemistry (First Class Honours)**

Studied: General biochemistry, Cell Biology, Clinical Biochemistry, Organic chemistry, Inorganic chemistry, Clinical and Biophysical Chemistry, Pharmacology and Toxicology, Anatomy and Endocrinology, Enzymology, Molecular Biology and Genetic Engineering, Applied microbiology and immunology, microbiology and Bioprocess, Computer application in Biology, Metabolism and Nutrition.

2001-2004: St. Mary's Mundika Boys High School, Busia (Kenya).

K.C.S.E (Aggregate C+)

1992-2000: Kahawa Garrison Primary School

Kenya Certificate of Primary Education

2010: One Stop Youth Centre Computer Training.

Certificate of achievement in computer application with distinction.

EMPLOYMENT PROFILE:

Jan 2015- to date: Tutorial fellow Kenyatta University; Kenyatta University, Department of Biochemistry and Biotechnology.

July 2010- Dec 2014: Head of Department Biochemistry and Chemistry and Full Time Medical Biochemistry and Chemistry Lecturer, Kampala International University, Dar-Es-Salaam Campus, Tanzania.

Main Duties and Responsibilities:

- To mentor young academic of Kampala International University
- Representing management staff and assigning duties to lecturers in school of health science
- Evaluating students and teaching assistant lecturers on academic activities
- To teach and supervise postgraduate and undergraduate students on courses consistent with my background.

- To carry out progressive assessment test and mark examination as external and internal examiner.
- Conducting practicals, research projects and training students on attachment and internship.
- Maintenance and monitoring of Biochemistry Laboratory for Medical Students
- Presenting and participating in international academic programs
- Performing the medical Biochemistry Laboratory Procedure to medical students in Pharmacy, Medicine, Medical Laboratory Technologist and Biological Sciences.
- Performing the medical microbiology and immunology, biochemistry and molecular biology, Genetics Laboratory Procedure to medical students in Pharmacy, Medicine, Medical Laboratory Technologist and Biological Sciences.
- Conducting lectures and practical's in medical Chemistry, Microbiology, Hematology, Immunology to Medicine, Pharmacy, clinical medicine, Medical Laboratory and Technology students.

April 2012- Aug 2013: Part-time Medical Biochemistry Lecturer Mount Kenya university Kigali campus.

Main Responsibilities:

- Teaching Bachelor students in school of Health science in Medical Biochemistry students the following units:
 - *Medical biochemistry*
 - *Medical microbiology*
 - *Organic chemistry*
 - *Inorganic chemistry*
 - *Molecular biology and genetics*
 - *Biomedical instrumentation*
- Ensuring all the reagents and apparatus for qualitative and quantitative analysis of biological samples are available in Hematology and Biochemistry Laboratory.
- Setting, administering and marking Biochemistry examinations.
- Conducting medical biochemistry and chemistry practicals.
- Examining student in medical laboratory, pharmacy, and nursing in school of health science

April 2012 up to June 2013: Biochemistry and Biotechnology Part-Time lecturer, Technical University of Kenya. Nairobi Campus.

Main Responsibilities:

- Teaching Bachelor of Science in Biochemistry and Biotechnology students the following units:
 - *Analytical chemistry and Hematology practical's*
 - *Genetic engineering and molecular biology*
 - *Introduction to biotechnology*
 - *Metabolism*
 - *Medical biochemistry*

- **Biochemical pathology**
- Ensuring all the reagents and apparatus for qualitative and quantitative analysis of biological samples are available in Hematology and Biochemistry Laboratory.
- Setting, administering and marking Biochemistry examinations.

June 2010-June 2011: Biochemist/Quality Control Analyst in Quality Control Department-Beta International Health Care.

Duties and Responsibilities:

- Laboratory/Biochemist analysis of samples of raw materials and finished products on daily basis and keeping proper records of the results.
- Different organic polymers preparation and mixing for Drug production.
- Carrying out challenge tests i.e. preservative effectiveness and antimicrobial effectiveness on products and disinfectants used for factory cleaning.
- Ensuring Good Manufacturing Practices (GMP) are observed in production areas.
- Writing new and reviewing Standard Operating Procedures (SOPs).
- Carrying out Biochemical stability tests for finished products and raw materials.
- Ensuring that all apparatus/equipments in Biochemistry laboratory are in good working condition
- Daily and weekly validation of machines/equipments used in Biochemistry Laboratory.
- Preparation of reports on key product performance and recommendation on quality checks in production.
- Ensuring compliance of processes to the approved standards.
- Training students on attachment and internship.

Dec2009-April 2010: I worked in Acme Progen Biotechnology (India) Private Limited as a Laboratory technician in Biochemistry, Biotechnology and Microbiology Laboratory.

Duties and Responsibilities:

- Laboratory/Biochemist analysis of samples of raw materials and finished products on daily basis and keeping proper records of the results.
- Ensuring that all apparatus/equipments in Biochemistry laboratory are in good working condition
- Daily and weekly validation of machines/equipments used in the Laboratory.
- Daily enumeration of total viable microorganisms (Bacteria, Fungi-yeasts and moulds) in raw materials, and finished product samples.
- Isolation and Biochemical Identification of microorganisms such as *E.coli*, *Salmonella spp*, *P.aeruginosa*, and *S.aureus* in samples of analysis.
- Maintenance of various stock cultures.

- Ensuring compliance of processes to the approved standards.
- Performing molecular and gene cloning procedures (isolation and purification of DNA, Amplification on PCR, Bacterial transformation, sequencing of samples)

April 2009-Dec 2009: Worked as a Medical Biochemist in Biochemistry and Microbiology Laboratory in Sri. Gokhulam National Hospital, Salem City, India

Duties & Responsibilities:

- Ensuring all the reagents and apparatus for qualitative and quantitative analysis of biological samples are available in Hematology and Biochemistry Laboratory.
- Carrying out Biochemical and immunology test in the biological samples from patients.
- Performing the hematology blood test (blood grouping, cell count, blood preservation e.t.c)
- Training students (medical and nursing) on attachment and internship.
- Performing screening and diagnosis of biological samples.
- Writing new and reviewing Standard Operating Procedures (SOPs).
- Quantitative analysis of biological samples like (glucose, urea, creatine and creatinine, proteins e.t.c

EXTRA-CURRICULAR ACTIVITY:

- Nov 2007: Particited in Tamil Nadu (India) State Level short story English competition. Conducted by Shakespeare Institute of English Studies Mylapore, Chennai. Tamilnadu State, India.
- May 2008-2009: Chairman in African Students Association Salem City Tamil Nadu State India
- 2009-2010: Particited by Representing Periyar University in Inter-University South Zone Competition In Football Conducted at Bharathiar University in Tamil Nadu State

PERSONAL INTEREST/HOBBIES/SPORTS:

- Reading Life Science Journal, Particicipating in Research Projects and seminars , Playing games(football)
- Particicipating in life science seminars.

SEMINAR:

- June 19 -June 22 2012: International seminars: topic “**Management of Higher Education**”

PUBLICATION:

- **Eliakim Mbaka**, Godfrey Omare.,Geofrey Arasa Ouno, Benard Moronge Mabeya and Sabella J Kiprono. **Molecular Identification of Soil Bacteria by 16S rDNA Sequence**” Journal of International Institute For Science, Technology And Education (IISTE), Vol 3, No 14 (2013) pp 51-58.
- Geofrey Arasa Ouno, **Eliakim Mbaka** and Godfrey Omare. **Isolation, Identification and Characterization of Urinary Tract Infectious Bacteria and The Effect of Different Antibiotics**, Journal Of International Institute For Science, Technology And Education (IISTE), Vol 3, No 6 (2013) pp 150-159.
- Godfrey Omare and **Eliakim Mbaka** **“Screening of Bioactive Secondary Metabolites From Sea Sponge (Clathria Indica) Associated Bacteria Against Urinary Tract Pathogens”** HURIA Journal of The Open University of Tanzania, Volume 15 June, 2013 pp 243-240
- **Eliakim Mbaka** and Godfrey Omare **Antibacterial Activity of Tulsi crude extracts against *Pseudomonas aeruginosa***. Tanzania Journal of Natural and Applied sciences (TAJoNAS). Vol. 23 (Accepted 08. 01. 2015)
- Godfrey Omare and **Eliakim Mbaka**, **Activity of Cinnamon crude extracts against *Escherichia coli***. Tanzania Journal of Natural and Applied sciences (TAJoNAS). Vol. 23 (Accepted 08. 01. 2015)
- Godfrey Omar and **Eliakim Mbaka**, **Antibacterial Activity of Bitter guard crude extracts against *Staphylococcus aureus***. Tanzania Journal of Natural and Applied sciences (TAJoNAS). Vol. 23 (Accepted 11. 01. 2015)
- **Eliakim Mbaka** and Godfrey Omare. **Pursuing publication. “Antibacterial Activity of Garlic, Tulsi, Bitter guard and Cinnamon Extracts against Wound Pathogens”**. Tanzania Journal of Natural and Applied sciences (TAJoNAS). (Submitted 06.12.2014).

REFEREES:

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ACADEMIC STAFF PROFESSIONAL PROFILE FORM

1. Personal Data:

Name	Eliakim Mbaka
Title/ Qualification	Mr/ MSC (Medical Biochemistry), PhD in medical biochemistry on going
Department/ Unit /Section	Biochemistry and Biotechnology
Contact Address	43844-00100, Nairobi
Position	Tutorial Fellow
Area of Specialization	Medical Biochemistry, molecular and genetic engineering
Research interests	Areas in health and well being, Medical Biochemistry, molecular and genetic engineering, bioinformatics, Pharmacology and Drug designing.

2. Researches:

S.No	Researcher	Year	Title	Donor	Funding (USDs)
1	Eliakim Mbaka	2015	Determination, characterization and Molecular inhibition of urinary tract infection by 23S rDNA sequence.	-	-

3. Publications

S.No	Author	Year	Title	Journal	ISBN/ISSN, Reference No
1	Eliakim Mbaka	2013	Molecular Identification of Soil Bacteria by 16S rDNA Sequence	Journal of International Institute For Science, Technology And Education (IISTE). Vol 3, No 14 (2013) pp 51-58.	ISSN 2225-092 (ONLINE) ISSN 2224-3186 (Paper)
2.	Eliakim Mbaka	2013	Isolation, Identification and Characterization of Urinary Tract Infectious Bacteria and The Effect of Different Antibiotics	Journal of International Institute For Science, Technology And Education (IISTE). Vol	ISSN 2224-3186 (Paper) ISSN 2225-0921 (Online)

				3, No 6 (2013) pp 150-159	
3.	Eliakim Mbaka	2013	Screening of Bioactive Secondary Metabolites From Sea Sponge (Clathria Indica) Associated Bacteria Against Urinary Tract Pathogens	HURIA Journal of The Open University of Tanzania, V olume 15 June, 2013	SSN 0856 6739

4. **Affiliation to Professional Bodies**

S.No	Name of professional body
	None