

Curriculum Vitae

Personal information

First name(s) / Surname(s) Njau Daniel Gachuri
Address P.O. Box 30197-00100, Nairobi, Kenya.
Telephone Numbers (+254)7222409294
E-mail dangachu87@gmail.com, daniel.njau@uonbi.ac.ke
Nationality Kenyan
Gender Male

Work experience

Dates December, 2013 to Date.

Occupation or position held **Assistant Lecturer**

Main activities and responsibilities

- Teaching Forensic Science and Forensic Biochemistry in the department of Human Pathology and Biochemistry respectively.
- Development and demonstration of the Forensic Science practical's eg BPA, BA, SA, FHA, FFA & CSI
- Teaching Biochemistry, Cell Biology and Molecular biology to Bachelor of Medicine and Bachelor of Surgery, Bachelor of Pharmacy, Bachelor of Dental Surgery, BSc in Biochemistry and BSc in Medical Laboratory Science and Technology students.
- Supervising undergraduate students in their dissertation.
- Curriculums Developments and review
- Other School and Departmental activities stipulated in the objectives eg Collaborations
- Offering mentorship Programs to students.

Name and address of employer University of Nairobi, P. O. Box 30197-00100, Nairobi.

Dates 2012 to 2013

Occupation or position held **Lab Assistant**

Main activities and responsibilities

- Human DNA Identification, Paternity testing
- Human DNA Extraction, Polymerase Chain Reaction and DNA Profiling

Name and address of employer Biotech Forensics Lab, P.O Box 38107- 00623 Parklands, Nairobi Area, Kenya.

Dates August, 2011 to December, 2013.

Occupation or position held **Graduate Assistant Volunteer**

Main activities and responsibilities

- Laboratories demonstration and marking of Biochemistry practical Books
- Assisting in teaching Biochemistry to Bachelor of Medicine and Bachelor of Surgery, Bachelor of Pharmacy, Bachelor of Dental Surgery, BSc in Biochemistry and BSc in Medical Laboratory Science and Technology students.
- Marking Continuous Assessment test and Assisting in marking Exams

Name and address of employer University of Nairobi, P. O. Box 30197 – 00100, Nairobi.

Dates January, 2010 to May, 2010.

Occupation or position held **Sales and Marketing Officer.**

Main activities and responsibilities

- Involved in planning, implementation and evaluation of sales and marketing activities.

Name and address of employer Nairobi Pathology and Allied Services, P. O. Box 56627-00200, Nairobi.

Dates April, 2003 – June, 2005.

Occupation or position held **Chemistry & Biology Teacher.**

Main activities and responsibilities

- Teaching Chemistry & Biology to Senior Classes.
- Deputy Head of Science Department

Name and address of employer Twilight High School, P. O. Box Private Bag, Kayole.

Education and training

Dates	On-going
Title of qualification To Be awarded	PhD In Forensic Biochemistry
Principal subjects/occupational skills covered	Skills <ul style="list-style-type: none">- Insects Collection and Morphological, Microscopic and Molecular Identification- Carrion-Arthropods succession pattern development- Forensic Histopathology- Forensic Toxicology- DNA Isolation and Purification.- Polymerase Chain Reaction (PCR).- DNA Quantification by real time PCR.- DNA analysis using ABI 3031 Genetic analyzer
Name of Institution providing education and training	University of Nairobi
Level in national or international classification	PhD Degree
Dates	October 2011, to December, 2014
Title of qualification awarded	Master of Science in Biochemistry
Principal subjects/occupational skills covered	Advanced Protein Biochemistry, Molecular Biology and Biotechnology, Bioinformatics, Research Methods and Biostatistics and Biochemical Techniques. Skills <ul style="list-style-type: none">- Forensic Entomology- DNA Isolation and Purification.- Polymerase Chain Reaction (PCR).- DNA Quantification by real time PCR.- DNA analysis using ABI 3031 Genetic analyzer.
Name of Institution providing education and training	University of Nairobi
Level in national or international classification	Master's Degree
Dates	August, 2011
Title of qualification awarded	Certificate of Attendance.
Principal subjects/occupational skills covered	Molecular and Biochemical Laboratory Techniques. <ul style="list-style-type: none">- Forensic science techniques eg Semen identification & analysis, Blood Pattern Analysis(BPA)- Handling Laboratory Animals.- DNA isolation and Analysis.- Recombinant DNA Technology and Applications.- PCR and Applications.- Cell Culture.- Spectrophotometry.- Enzyme Assays.- Electrophoretic techniques.- Immunological Assays.
Name of Institution providing education and training	Clinical and Industrial Biochemistry Consultancy Unit (CIBCU), University of Nairobi.
Level in national or international classification	Certificate
Dates	September, 2005 to December, 2009
Title of qualification awarded	Bachelor of Science in Biochemistry, First Class Honours

Principal subjects/occupational skills covered Biochemistry: Forensic Biochemistry, Protein, Plant and Comparative Biochemistry, Metabolism I&II, Microbiology, Genetics, Advanced Immunology, Plant and Mammalian Physiology, Molecular Biology and Biochemical Techniques and Instrumentation

Name of Institution providing education and training University of Nairobi

Level in national or international classification Bachelor's degree

Dates January, 2003 to April, 2003

Title of qualification awarded Certificate of Attendance

Principal subjects covered Professional Ethics.

Name of Institution providing education and training Strathmore University

Level in national classification Certificate.

Dates January, 1999 to November, 2002

Title of qualification awarded Kenya Certificate of Secondary Education

Principal subjects/occupational skills covered Mathematics, English, Biology, Chemistry, Physics, Geography and Commerce.

Name of Institution providing education and training Kagumo High School

Level in National Classification Kenya Certificate of Secondary Education

Dates January, 1989 to December, 1998

Title of qualification awarded Kenya Certificate of Primary Education

Principal subjects covered Mathematics, Languages, Art and Music and Science.

Name of Institution providing education and training Mihuti Primary School

Level in national or international classification Kenya Certificate of Primary Education.

Scholarship and Fellowship Awarded

Dates April, 2015

Title of Fellowship Global Health Biovision. Next Fellowship Programme, BIOVISION 2015 on recent Life Sciences advances in Health, Nutrition and the Environment at Lyon, France

Dates September, 2010 to December, 2013

Title of Scholarship Awarded a University scholarship to pursue an MSc degree at the University of Nairobi, Department of Biochemistry.

Dates September, 2005 to December, 2009

Title of Scholarship Awarded the Kenya government scholarship to pursue a BSc degree at the University of Nairobi.

Personal skills and competences

Mother tongue(s) **Kikuyu and Swahili**

Other language(s)

Self-assessment
European level ()*

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	

English

C2 Proficient user C2 Proficient user C2 Proficient user C2 Proficient user C2 Proficient user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences	Ability to work efficiently and effectively in a group to achieve desired results and excellent communication in both English and Kiswahili gained through my work as a teacher and a Mentor.
Organisational skills and competences	Good leadership qualities developed through previous leadership positions such as Class Teacher, Deputy Head of Science Department, training in Professional Ethics and Global Leadership Programmes.
Technical skills and competences	<p>Ability to perform qualitative and quantitative Forensic & Biochemical analysis using various standard methods and analytical equipment having been in a Forensic & Molecular biology lab for about two year, actively striving to enhance my skills in the area of Forensic Science. The techniques that I have acquired in the area include:</p> <ul style="list-style-type: none">- Major Forensic Science Specialties- Human Identification in Disaster Management- Blood and Semen identifications in a crime scene- Crime Scene management and investigation (CSM &CSI)- Law , Ethics & Human Rights in Forensic Science- Identification of Physical, Biological and Trace evidences- Forensic Hair & Fiber identification and analysis- Molecular Identification of Meat Species Specification- DNA Isolation and analysis.- Polymerase Chain Reaction (PCR)- Gene cloning and Recombinant DNA techniques and applications.- Southern blots, Western blots, Northern and South Western blotting and their applications.- Scientific report writing.- Forensic Histopathology and Toxicology.
Computer skills and competences	Very good knowledge of basic computer packages used in presentation and analysis of data acquired through training at the University of Nairobi and constant use of the packages at places of work and training.
Artistic skills and competences	<p>Basic Forensic and Molecular Techniques acquired during my research in Biotech Forensics Laboratory</p> <ul style="list-style-type: none">- Forensic entomological techniques- DNA Isolation and Purification.- Polymerase Chain Reaction (PCR).- DNA Quantification by real time PCR.- DNA analysis using ABI 3031 Genetic analyzer.- Blood pattern analysis.- Paternity testing.
Other skills and competences	Ability to use the most appropriate and effective teaching aids and techniques to help learners in understanding various concepts acquired through More than Five years of teaching experience

Additional information

Publications

Article:

1. STRs analysis of human DNA from Maggots Fed on Decomposing Bodies: Assessment of the time period for successful analysis – *Egyptian Journal of Forensic Science* (2015)

Conferences and Seminars

1. Pedagogy, Andragogy, and Mentorship Training Programme at the university of Nairobi on June 2019
2. Global Peace Leadership Conference under the theme; **Moral and Innovative Leadership: New Model for Sustainable Peace and Development to be held in Uganda on 1st Aug 2018 to 3rd Aug 2018**
3. Grant Proposal writing at the University of Nairobi, Chiromo Campus under the office of the DVC Research, Production and Extension.
4. Global Peace, Mutual Trust, Respect and Understanding Conference held at Heriot Watt University, Malaysia Under the Association of Commonwealth Universities(ACU) in Dec 2017
5. Lecturer Training in Didactic, Prepare BSc –Project at the College of Agriculture and Veterinary Sciences
6. Basic Introduction to flow Cytometry on BD FACS Calibur™ at KEMRI-BD TRAINING CENTRE NAIROBI, KENYA.
7. Molecular and Biochemical Laboratory Techniques on Clinical and Industrial Consultancy at the DEPARTMENT OF BIOCHEMISTRY, UNIVERSITY OF NAIROBI.
8. 1st ever 'Varsity Biotechnology Awareness Conference' at the UNIVERSITY OF NAIROBI

Membership to professional bodies and Foundations:

Member, **Biochemical Society of Kenya (BSK)**

Member, **Clinical and Industrial Biochemistry Consultancy Unit (CIBCU)**

Member, **Nairobi University Biochemistry Students Association (NUBSA)**

Founding Member, **Young Medical and Allied Professional Foundation (YMAP)**

Referees:

1. Prof. C. O. A. Omwandho, Deputy Vice Chancellor (A & F), Kirinyaga University, P.O. Box 143 - 10300, E-mail: charlesomwandho@gmail.com, Tel. (+254)710-888835, Nairobi.
2. Prof. P.W. Kinyanjui, Associate Professor Department of Biochemistry, University of Nairobi, College of Health Sciences, P.O. Box 30197-00100, E-mail: pkinyash@yahoo.com, Tel. (+254)722-394442, Nairobi
3. Dr E.K. Muge. Senior Lecturer and Head of Department, Department of Biochemistry, University of Nairobi, P.O. Box 30197-00100, E-mail: mugeek@uonbi.ac.ke, Tel. (+254)716-059466, Nairobi.

Signature

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