

NAME: Lucy Wanjiru **KARIUKI**

PROFESSION: Lecturer

NATIONALITY: Kenyan

MARITAL STATUS: Married

CONTACT DETAILS: PO Box 7651
00100-GPO Nairobi
Email: madamkariuki@yahoo.com
lkariuki@uonbi.ac.ke
Office Tel: +254-2-4442121 Ext2350/2363
Mob +254 722 349138

KEY QUALIFICATIONS:

Lucy is currently working as a Tutorial Fellow in the Biochemistry Department, School of Medicine University of Nairobi. She is also pursuing her Doctorate degree in the University and she is due to complete in December 2018. The title of her research work is **“Genotypic Characterisation of Rift Valley Fever Virus Isolates from Kenya.”**

She has previously worked with the Government of Kenya as a Fisheries Officer and holds a **Master of Science degree in Molecular Biology from Free University of Brussels** and a Bachelor of Science majoring in Biochemistry from University of Nairobi.

Her area of specialisation is Molecular Parasitology with a special interest in Research in Therapeutic and Drug Development in Neglected Infectious Diseases such as Trypanosomiasis, Leishmaniasis, and Schistosomiasis. She is also working on Molecular Virology.

Her experience includes lecturing Biochemistry and Molecular Biology courses to Medical and Bachelor of Science students, marking and supervising examinations, student projects and practical, coaching students, directing and supervising undergraduate student’s research projects and co-ordinating undergraduate courses. She also has responsibility of coordinating students’ mentorship in the school of Medicine. She has also attended several work/research related workshops/conferences to broaden her knowledge both locally and internationally.

Besides she has experience in hygiene standards inspection of local and export fish processing firms, fish handling advisory for local markets and fish breeding.

Lucy speaks English, Kikuyu and Kiswahili and has carried out research work in Kenya and Brussels.

EDUCATION:

Doctor of Philosophy (Biochemistry), University of Nairobi: Ongoing.

Master of Science (Molecular Biology), Free University of Brussels, Belgium: September 2001

Bachelor of Science (Biochemistry), University of Nairobi, Kenya: July 1995

EMPLOYMENT RECORD:

2003 – To date **Tutorial Fellow**, University of Nairobi, Kenya
2001 - 2003 **Graduate Assistant**, University of Nairobi, Kenya
1997 - 1999 **Fisheries Officer II**, Ministry of Tourism and Fisheries, Government of Kenya, Nairobi and Sagana

RECENT COURSES/CONFERENCES ATTENDED:

Research Flow-Cytometry Workshop based on the exciting Beckman Coulter Cytoflex system from 26 -27 June 2018 at KAVI, University of Nairobi.

Grant Proposal Writing Training Workshops from 27 to 29 September, 2017 at the University of Nairobi.

International Programme for Molecular Biology Alumni Workshop/ Meeting from 18 - 19 September 2017 in the “Institute of Primate Research” Nairobi

National Biosecurity and Biopreparedness Workshop for Kenyan Universities by Nacosti, Commission for University Education (CEU) and Centre for Biosecurity and Biosafety (CBB), Denmark on 14 June 2017 at University of Nairobi.

The 3rd Medical and Veterinary Virus Research Symposium (MVVR): Relevant Virus Research in Kenya and the Region from 16th to 17th October 2014 at Hilton Hotel Nairobi.

Hands-on Bioinformatics Workshop by CLCbio by Inqaba:” Introduction to Phylogenetics” from 13th to 15th October 2014, KEMRI Nairobi.

Hands-on Bioinformatics Workshop by CLCbio sponsored by Inqaba entitled: “How best to analyze Sanger as well as NGS sequence data using the popular CLCbio bioinformatics solutions” on **October 9th 2013, at KEMRI Nairobi**

Bioinformatics Seminar by Prof. Erik Bongcam-Rudloff from Uppsala University & Swedish University of Agricultural Sciences, Sweden in collaboration with the Biosciences Eastern and Central Africa (BecA) and the International Livestock Research Institute (ILRI), Regional Student Group of Eastern Africa (RSG Eastern Africa), Center for Biotechnology and Bioinformatics (CEBIB), Biochemistry Department & the School of Biological Sciences on **29th May 2013 at CEDIB, UON**

Bio-Safety Training: The KEMRI Strengthening Management Project under the Biosafety Office organized a four day training for CVR and its collaborative research unit’s staff members from **7th-10th May, 2013, KEMRI, Nairobi.**

Medical Teachers Education Workshop on October 24-27, 2011, Medical School University of Nairobi, Kenya.

Intra-ACP Academic Mobility Scheme for Africa and the Caribbean and Pacific Workshop on 4th and 5th March, 2011, Nairobi, Kenya.

African Association of Physiological Sciences – 5th AAPS Congress on 27th July to 1st August, 2008, University of Nairobi, Kenya.

Seventh Annual East African Training Workshop on Research Methods and Cell Biology of Protozoan Parasites on 6th to 19th July, 2008, Morogoro, Tanzania.

Ensembl Workshop on Bioinformatics on 17th to 19th October, 2007, ILRI Nairobi Campus, Kenya.

WHO/TDR Good Laboratory Practice (GLP) Training Workshop, on 24th to 26th October, 2007 offered at University of Nairobi, Kenya.

Statistics Using STATA 9 International Course offered by University of Nairobi Institute of Tropical and Infectious Disease (UNITID) and DBL-Institute for Health Research and Development-Denmark on 6th to 17th August, 2007, University of Nairobi, Kenya

International Conference on the Bioinformatics of Africa Pathogens and Disease Vectors on 28th May to 2nd June 2007 at ICIPE Kenya*

Workshop in Laboratory Animal Science (Federation of Laboratory Animal Association-FELASA C) on 7th to 25th May, 2007- University of Nairobi, Kenya

ILRI/BECA/SLU "Introductory course in Bioinformatics" on 5-15 March 2007 at the ILRI Nairobi Campus, Kenya

AWARDS:

1. Dissertation Research Internship Programme (DRIP) at ICIPE from January 2012 to February 2016
2. DAAD-(German Academic Exchange Service) PhD merit scholarship: 2007 to 2008
3. TDR Research Training Grant, a PhD merit scholarship: 2007 to 2008
4. VLIR scholarship, a postgraduate merit scholarship: 1999 to 2001
5. Post-graduate Merit Award Scholarship, University of Nairobi 1997 to 1999

SUMMARY EXPERIENCE

Research Projects	Objectives, Duration, Collaborations and Current Status
Genotypic Characterization of Rift Valley Fever Virus Isolates from Kenya	<p>Objective: To genetically and phenotypically characterize the diversity of RVFV isolates obtained in Kenya during the 2006-2007 outbreaks.</p> <p>Duration: 2012 to 2019</p> <p>Collaborations: UON, KEMRI and ICIPE</p> <p>Current Status: Ongoing research</p>
Effect of Maesanin on the motility and respiration of bloodstream and	<p>Objective: To establish whether Maesanin kills parasites and its effect on the respiration of parasite in presence of other inhibitors and couplers</p>

Research Projects	Objectives, Duration, Collaborations and Current Status
procyclic forms of <i>Trypanosoma brucei brucei</i>	<p>Duration: Two years</p> <p>Collaborations: None</p> <p>Current Status: Paper publication in progress.</p>

RESEARCH PAPERS AND PUBLICATIONS

2009: **L.W. Kariuki**, E.K. Nguu, R.M. Njogu, P. W. Kinyanjui, J.O.Midiwo, W.D. Bulimo, J.K.Kiaira, Maesanin: A Benzoquinone from *Maesa lanceolata* that Completely Inhibits Respiration in Bloodstream *Trypanosoma brucei brucei*; **Infectious, Genetics and Evolution a Scientific Medical Journal (Volume 9, issue 3, May 2009 Page 838).**

2001: **Kariuki. L.W** Unravelling Aminopetidase (PepA) and UMP-Kinase (PyrH), functioning in transcription, repression of the *Escherichia coli* carAB operon, unpublished MSc Thesis, Free University of Brussels

RESEARCH SUPERVISION

Student name	Project Title	Course
Peter Koigi Mwangi	Investigation of Toxic Heavy Metals in Blood Samples from People Living in Industrial Area Nairobi	Bachelor of Science (2017)
Ong'achwa Jeremiah Machuki	Use of Pheromones as an Alternative for Insecticides in Management of Insect Pests	Bachelor of Science (2012)
Rose Sifuna Nekesa	Use of Cosmetics Derived from Natural Sources Versus Synthetic Sources	Bachelor of Science (2012)
Rinter Karimi Kimathi	The use of Biotechnology in the Production of plant Derived Biodegradable Plastics.	Bachelor of Science (2011)
Millicent Wafula Mamusia	Nucleotide Sequence Polymorphism in the Genes Encoding CCR5, CCR2 and CCR4 in HIV Discordant couples.	Bachelor of Science (2011)
Musyoka Edson Mutisya	Drug Resistance in Human Africa Trypanosomiasis	Bachelor of Science (2009)
Kinyua Ann Wambui	Stinging Nettle, <i>Urtica dioica</i> , as an Alternative Treatment for Gout	Bachelor of Science (2009)
Kennedy Odhiambo Were	Comparison of Acetylcholinesterase Activity in Human Serum and <i>Ascaris suum</i>	Bachelor of Science (2008)
Martin Muraya	Effect of Unrefined Alcohol on Alcohol and Acetylaldehyde Dehydrogenase in Rats:	Bachelor of Science (2007)
Daniel Omulogoli Mushila	Effects of Maesanin of Glucose Oxidation in Bloodstream <i>Trypanosoma congolense</i>	Bachelor of Science (2007)
Fridah Wambui	Investigation of the Effect of Embelin on Glucose Catabolism in Bloodstream form of <i>Trypanosoma brucei brucei</i>	Bachelor of Science (2006)

Student name	Project Title	Course
Peter Koigi Mwangi	Investigation of Toxic Heavy Metals in Blood Samples from People Living in Industrial Area Nairobi	Bachelor of Science (2017)
Ong'achwa Jeremiah Machuki	Use of Pheromones as an Alternative for Insecticides in Management of Insect Pests	Bachelor of Science (2012)
Rose Sifuna Nekesa	Use of Cosmetics Derived from Natural Sources Versus Synthetic Sources	Bachelor of Science (2012)
Eliud Macharia Muigai	Effect of <i>Myasinsonone</i> on Glucose Catabolism in Bloodstream <i>Trypanosoma brucei brucei</i> .	Bachelor of Science (2006)

AREAS OF SPECIALIZATION:

Molecular Virology

Molecular Parasitology

INTERESTS:

Research in Therapeutic and Drug Development in Neglected Infectious Diseases such as Trypanosomiasis, Leishmaniasis, Schistosomiasis, and also Arboviruses.

DUTIES AND RESPONSIBILITIES:

Dates	Position	Organisation
September 2017 to Date	Volunteer Counsellor	University of Nairobi- Biochemistry Department
January 2016 to date	Board of Management Member	Kariko Secondary School
July 2013 to date	Board Member of Caritas Kenya	Archdiocese of Nyeri
January 2012 to date	Coordinator, Student Mentorship, School of Medicine	University of Nairobi
January 2012 to date	Coordinator, Preclinical Departments Activities	University of Nairobi- School of Medicine
Jan 2012 to Date	Board of Management Member	Mucharage Secondary School,
August 2011 to 2015	Secretary	St. Austins Catholic Church, Catholic Women Association
August 2011 to 2015	Organising Secretary	St. Austins Catholic Parish Pastoral Council
June 2011 to date	Vice Chairlady	Biochemical Society of Kenya (BSK)
January 2008 to date	Treasurer	Clinical and Industrial Biochemistry Consultant Unit (CIBCU), University of Nairobi

LANGUAGES:

	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Kiswahili	Excellent	Excellent	Good
Kikuyu	Excellent	Excellent	Excellent

REFERENCES:

Prof. Wallace Bulimo
Associate Professor
Biochemistry Department,
University of Nairobi,
P.O Box 30197, 00100 GPO Nairobi,
Kenya
Telefax 254-20-4914152
Mobile: 254733616602

Andreas Holtel
EU Commission, DG Res., F3/Infectious Diseases,
CDMA 2/160, rue du Champs de Mars 21,
B-1050 Bruxelles, Belgium
Tel : +32 2 2953716, fax +32 2 2994561
Mob : +32 492 17 17 90
andreas.holtel@ec.europa.eu