



THE TECHNICAL UNIVERSITY OF KENYA

Haile Selassie Avenue, P.O. Box 52428, Nairobi, 00200, Tel +254(020) 343672, 2249974, 2251300, 341639

Fax 2219689, Email: vc@tukenya.ac.ke, Website: www.tukenya.ac.ke

NAME: DR GRACE WAIRIMU GITAU



Faculty:	Applied Sciences and Technology
School:	Biological and Life Sciences
Department:	Biochemistry and Biotechnology
Current Designation:	Lecturer, BIOCHEMISTRY AND BIOTECHNOLOGY (DBB)
Office Telephone:	+254(020) 2219929, 3341639, 3343672
Official Email:	ggitau@tukenya.ac.ke
Consultation Hours:	8AM-5PM MON - FRI

EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	BIOCHEMISTRY	UNIVERSITY OF ZULULAND(South Africa)	2014
Masters of Science (M.Sc.)	PHARMACOLOGY	NOTTINGHAM TRENT UNIVERSITY(United Kingdom)	2009
Bachelor of Science (BSc)	BIOCHEMISTRY	UNIVERSITY OF NAIROBI(Kenya)	2007
O level/Equivalent	KENYA CERTIFICATE OF SECONDARY EDUCATION	ST. JOSEPH'S GIRLS HIGH SCHOOL(Kenya)	2003
KCPE/Equivalent	KENYA CERTIFICATE OF PRIMARY EDUCATION	ROBINSON ACADEMY(Kenya)	1999

WORK EXPERIENCE

PERIOD	INSTITUTION	POSITION
November 2023 - To present	Kenya Institute of Primate Research (KIPRE)	Research Associate Scientist
November 2014 - To date	Technical University of Kenya	Lecturer
February 2012 - June 2012	University of Zululand (South Africa)	Assistant Lecturer

GENERAL STATEMENT ON RESEARCH AREAS

Lecturer and researcher on phages & derived molecules as potential antibacterials and detection/diagnostic tools for biocontrol of antimicrobial and multidrug resistance bacteria (AMR and MDR) with experience in research project supervision, grants proposal writing, analysis and interpretation of data and publishing. Experience in Community health outreach to create awareness of approved phage applications in one health approach to curb transmission of AMR.

SELECTED PUBLICATIONS

TITLE	LINK TO PUBLICATION	YEAR
Characterisation of the <i>Plasmodium falciparum</i> Hsp70-Hsp90 organising protein (PfHop)	View online	
Role of heat shock proteins in the development and pathogenicity of <i>Plasmodium falciparum</i> .	View online	
<i>Plasmodium falciparum</i> Hop (PfHop) interacts with the Hsp70 chaperone in a nucleotide-dependent fashion and exhibits ligand selectivity	View online	
Molecular characterization of group A rotaviruses in Mukuru slums Kenya: detection of novel strains circulating in children below 5 years of age	View online	
Coenzyme Q10 Ameliorates potassium cyanide-induced toxicosis in a mouse model	View online	
In silico exploration of Lycoris alkaloids as potential inhibitors of SARS-CoV-2 main protease (Mpro)	View online	
Alcohol spiked with zolpidem and midazolam potentiates inflammation, oxidative stress and organ damage in a mouse model.	View online	2023

POSTGRADUATE STUDENTS SUPERVISION

NAME	PROJECT TITLE	PERIOD
Biwott Kipchumba	PUTATIVE IMPACT OF ALCOHOL INTOXICATION WITH ZOLPIDEM AND MIDAZOLAM INDUCED INFLAMMATION AND OXIDATIVE STRESS IN MURINE MODEL	2016-2018
Francis Gitonga	AMELIORATIVE EFFECT OF Co-Q10 ON POTASSIUM CYANIDE INDUCED TOXICOSIS IN MURINE MODEL	2016-2018

PROFESSIONAL AFFILIATIONS AND SOCIETIES

TITLE	INSTITUTION
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Member	Biochemistry and Biotechnology Professionals Society of Kenya
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Member	European Society of Clinical Microbiology and Infectious Diseases (ESCMID)
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