



THE TECHNICAL UNIVERSITY OF KENYA

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EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	CLINICAL SCIENCE AND IMMUNOLOGY	UNIVERSITY OF CAPE TOWN(South Africa)	2022
Masters of Science (M.Sc.)	INFECTION BIOLOGY	UNIVERSITY OF BASEL(Switzerland)	2013
Bachelor of Science (BSc)	MEDICAL MICROBIOLOGY	JOMO KENYATTA UNIVERSITY OF AGRICULTURE & TECHNOLOGY(Kenya)	2010
Short Course/ Training	HAIN TESTS	AGHA KHAN UNIVERSITY HOSPITAL NAIROBI(Kenya)	2011
Short Course/ Training	BIOSAFETY LEVELS	US ARMY MEDICAL RESEARCH -UNIT KENYA(Kenya)	2010
O level/Equivalent	KENYA CERTIFICATE OF SECONDARY EDUCATION	KITENGELA GIRLS HIGH SCHOOL(Kenya)	2005

WORK EXPERIENCE

PERIOD	INSTITUTION	POSITION
02/09/2015 - TO DATE	THE TECHNICAL UNIVERSITY OF KENYA	TUTORIAL FELLOW

GENERAL STATEMENT ON RESEARCH AREAS

Immunology of infectious diseases

CURRENT RESEARCH PROJECTS

Investigating the innate immune recognition and responses to <i>Pneumocystis murina</i> .	Immunology, Medical Mycology, Molecular biology
Discrimination of human monocyte sub-populations by in vitro immunophenotyping and whole cell MALDI TOF MS fingerprinting	Immunology, mass spectrometry
Colitis scoring in oxazolone induced colitis in mice	Immunology, Histopathology
Isolation of <i>Emergomyces africanus</i> species from soil using mouse inoculation	Immunology, Medical Mycology, Microbiology, Molecular Biology
Establishing immune assays to determine the host response to <i>Pneumocystis murina</i>	Immunology, Medical Mycology, Molecular biology

SELECTED PUBLICATIONS

TITLE	LINK TO PUBLICATION	YEAR
IL-4 Receptor-Alpha Signalling of Intestinal Epithelial Cells, Smooth Muscle Cells, and Macrophages Plays a Redundant Role in Oxazolone Colitis	View online	
The Contribution of Host Cells to <i>Pneumocystis</i> Immunity: An Update	View online	
Quantitative whole-cell MALDI TOF MS fingerprints distinguishes human monocyte sub-populations activated by distinct microbial ligands	View online	
<i>Emergomyces africanus</i> in Soil, South Africa	View online	
AIDS-Related Mycoses: Current progress in the field and future priorities	View online	

POSTGRADUATE STUDENTS SUPERVISION

NAME	PROJECT TITLE	PERIOD
Nontobeko Mthembu	Establishing immune assays to determine the host response to <i>Pneumocystis murina</i>	2017-2019
TERESA NYAGAYA	RISK FACTORS OF PREGNANCY ASSOCIATED ANAEMIA AMONG WOMEN ATTENDING KISUMU COUNTY HOSPITAL	2020-2021
Millicent Nyabuto	EFFECTS OF <i>Enterobius vermicularis</i> INFECTION ON GROWTH OF CHILDREN, 5 TO 8 YEARS ATTENDING GUCHA HOSPITAL, KISII	2020-2021
Fiona Moraa	A CORRELATION BETWEEN USE OF GENE XPERT AND TB LAM TEST AMONG HIV POSTIVE PATIENTS IN MASIMBA SUBCOUNTY HOSPITAL.	2020-2021
TONNY BLAIR OKUMU	CORRELATION BETWEEN HAEMOGLOBIN VALUES AND ERYTHROCYTE SEDIMENTATION RATE LEVELS AMONG PATIENTS ATTENDING MATER HOSPITAL	2020-2021
NANCY CHESANG	PREVALENCE OF VAGINAL YEAST INFECTION DURING PREGNANCY AMONG WOMEN ATTENDING ANTENATAL CLINIC AT KAPSABET COUNTY REFERRAL HOSPITAL FROM JANUARY 2021 TO MARCH 2021.	2021
JADIDAH KATHILI KAVUNZA	PREVALENCE OF BACTERIAL MENINGITIS AMONG PATIENTS ATTENDING KITUI COUNTY REFERRAL HOSPITAL	2021
FRANKLINE ABUTI MUKOLWE	ISOLATION OF BACTERIA ASSOCIATED WITH WOUND INFECTION FROM INPATIENTS AT ST MARY'S MUMIAS HOSPITAL KAKAMEGA COUNTY	2021

COURSES TAUGHT

NAME	DESCRIPTION	PERIOD
Molecular diagnostics	Learners expected to be able to understand molecular pathology, describe techniques of DNA analysis and differentiate types of chromatography	January 2020 - April 2020
Bacteriology B	students should be able to: 1. Describe the environment and systems which favour growth and spread of micro-organisms 2. Explain the infectivity, bacterial toxins, virulence and life cycle of pathogenic organisms. 3. Explain control measures, which can be taken to prevent infectivity and spread of pathogenic micro-organisms.	April 2021 - June 2021
Year 1 Diploma Immunology	understanding of the complexity of host immune responses to communicable and non-communicable diseases	April 2021 - TO-DATE
Research Project	Support students with their thesis from conceptualizing ideas, proposal writing, carrying out research and writing up their findings	May 2021 - TO-DATE
Immunology B	understanding of the complexity of host immune responses to communicable and non-communicable diseases	January 2020 - April 2020
Bacteriology A	equip the learners with principles relating to taxonomy and characteristics of microorganisms	January 2021 - March 2021

PROFESSIONAL AFFILIATIONS AND SOCIETIES

TITLE	INSTITUTION
South Africa Veterinary council	University of Cape Town, South Africa

EXTRA INFORMATION

DESCRIPTION

AWARDS/HONORS/PRICES

2020- University of Cape Town, **Foundation contingency award**

2018- **Margaret McNamara Education Grant**

2018- **ISHAM travel award** for the 2018 ISHAM conference.

2017- **Travel and meeting sponsorship** for the 6th South African Immunology Society conference.

2017- **FEBS Transcontinental youth travel award** for the Human Fungal Pathogens course.

2017- University of Cape Town, **International travel award.**

2016-**Travel and meeting sponsorship** for the 2nd EMBO Workshop on AIDS-Related Mycoses and Kenya Biology of Pathogens, pathogenesis & parasitism workshops.

2016-2019 University of Cape Town, **International student's scholarship.**

2016- **Sponsorship for Basic and Applied Research Immunology course** at UCT.

2011-2013-**Swiss Tropical and Public Health Institute scholarship** for my masters studies (distinction).

2011- **Consortium for National Health Research-Kenya** internship grant

WORKSHOPS/CONFERENCES

3rd EMBO Workshop on AIDS-Related Mycoses Cape Town, South Africa, July 2019
Ambition Medical Mycology course: Cape Town, South Africa, December 2018.

AFGrica workshop: Cape Town, South Africa, August 2017.

6TH South African Immunology Society conference; poster presentation, Cape Town South Africa, September 2017.

2017 Human Fungal Pathogen course; oral & poster presentation, Nice France, May 2017.

Kenya Biology of Pathogens, Pathogenesis & Parasitism; poster presentation, Kilifi Kenya, September 2016.

2nd EMBO Workshop on AIDS-Related Mycoses; poster presentation, Cape Town South Africa, July 2016.

Basic and Applied Research Immunology; Cape Town, South Africa, February to September 2016.

9TH Federation of African Immunological Societies Conference; Nairobi Kenya, December 2014.