



THE TECHNICAL UNIVERSITY OF KENYA

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School:	HEALTH AND BIOMEDICAL SCIENCES
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EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	MOLECULAR MEDICINE	JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY(Kenya)	2018
Masters of Science (M.Sc.)	IMMUNOLOGY	JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY(Kenya)	2011
Bachelor of Science (BSc)	MEDICAL LABORATORY SCIENCES	JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY(Kenya)	2004

WORK EXPERIENCE

PERIOD	INSTITUTION	POSITION
2019 - TO DATE	TECHNICAL UNIVERSITY OF KENYA	LECTURER
2018 - 2019	KENYA METHODIST UNIVERSITY	LECTURER
2011 - 2017	KENYA METHODIST UNIVERSITY	ASSISTANT LECTURER
2009 - 2010	KENYA METHODIST UNIVERSITY	GRADUATE ASSISTANT
2006 - 2009	JKUAT	ADJUNCT FACULTY

GENERAL STATEMENT ON RESEARCH AREAS

• The Epidemiology and characterization of *Toxoplasma gondii* in animals and at risk humans • Vaccine development in Schistosomiasis, Drug development for Schistosomiasis based on herbal extracts, Development of molluscicides against the snail intermediate host of *Schistosoma* based on herbal extracts. • Development of diagnostic tools and novel drugs for treatment of tropical human diseases • Research on 'One Health' approach in management and control of diseases

CURRENT RESEARCH PROJECTS

<p>The Epidemiology and characterization of <i>Toxoplasma gondii</i> in animals and at risk humans</p>	<p>Neglected tropical zoonosis</p>
<p>Antischistosomal and Molluscicidal activity of Medicinal Plants used in various parts of Kenya.</p>	<p>Vaccine development in Schistosomiasis, Drug development for Schistosomiasis based on herbal extracts, Development of molluscicides against the snail intermediate host of <i>Schistosoma</i> based on herbal extracts.</p>

SELECTED PUBLICATIONS

TITLE	LINK TO PULICATION
Evaluation of Trypanocidal Activity of Bidens pilosa and Physalis peruviana Against Trypanosoma brucei rhodesiense.	http://www.sciencepublishinggroup.com/journal/paperinfo?journalid=235&doi=10.11648/j.ajlm.20170204.15
Determination of effective praziquantel dose in different mouse strains: BALB/c and Swiss mice in treatment of Schistosoma mansoni.	https://academicjournals.org/journal/JCIIR/article-abstract/F630DB55748
Organ Pathology and Associated IFN- γ and IL-10 Variations in Mice Infected with Toxoplasma gondii Isolate from Kenya. DOI: 10.5772/intechopen.79700.	https://www.intechopen.com/books/parasites-and-parasitic-diseases/organ-pathology-and-associated-ifn-and-il-10-variations-in-mice-infected-with-toxoplasma-gondii-isol
Detection Of Natural Toxoplasma Gondii Infection In Olive Baboons (Papio Anubis) In Kenya Using Nested PCR. The 11th JKUAT Scientific, Technological and Industrialization Conference and Exhibitions Conference Proceedings.	http://journals.jkuat.ac.ke/index.php/jscp/article/view/1294
Virology for medical laboratory students	http://repository.seku.ac.ke/handle/123456789/2651
"Development of Neurological Mouse Model for Toxoplasmosis Using Toxoplasma gondii Isolated from Chicken in Kenya,"	https://www.hindawi.com/journals/pri/2017/4302459/
Evaluating the Antischistosomal Activity of Crude Extracts of Carica Papaya against Schistosoma Mansoni : the Interplay of Cellular and Humoral Immunity.	https://jbpr.in/index.php/jbpr/article/view/437
A review on the present advances on studies of toxoplasmosis in Eastern Africa.	https://www.hindawi.com/journals/bmri/2020/7135268/
Organ Pathology and Associated IFN- γ and IL-10 Variations in Mice Infected with Toxoplasma gondii Isolate from Kenya, Parasites and Parasitic Diseases, Gilberto Bastidas, IntechOpen, DOI: 10.5772/intechopen.79700.	https://www.intechopen.com/books/parasites-and-parasitic-diseases/organ-pathology-and-associated-ifn-and-il-10-variations-in-mice-infected-with-toxoplasma-gondii-isol
John Mokua Mose John Detection of natural Toxoplasma gondii infection in chicken in Thika region of Kenya using nested polymerase chain reaction.	https://www.hindawi.com/journals/bmri/2016/7589278/
Isolation and Cryopreservation of Toxoplasma gondii Isolates from Cats and Chickens from Selected Households in the Thika Region, Kenya	https://journaljalsi.com/index.php/JALSI/article/view/30290
Physico-Clinical and Haematological Changes in Olive Baboon (Papio anubis) Model of Latent Toxoplasmosis and Toxoplasmic Encephalitis.	https://www.scireslit.com/Primateology/
Influence of Caregiver and Peer Support in Adherence to Antiretroviral Therapy amongst HIV Positive Adolescents Attending Murang'a County Hospital.	https://gnpublication.org/index.php/hsn/article/view/1366/931
Prevalence of Transfusion Transmissible Infections Among Blood Donated At Nyeri Satellite Transfusion Centre, Kenya.	http://www.iosrphr.org/pages/volume6-issue2.html
The Evaluation of the Effects of an Aqueous and Methanol Extracts of Solanum incanum on Schistosoma mansoni Infected Mice.	https://ajphs.com/sites/default/files/AsianJPharmHealthSci-2-1-278.pdf

POSTGRADUATE STUDENTS SUPERVISION

NAME	PROJECT TITLE	PERIOD
Peter Kabugua Ndungu (PHT-3-0434-1-2017) KeMU	Factors associated with non-disclosure of HIV positive status to children infected with HIV in Muranga hospital, Kenya	GRADUATED (2020)
JAMES OCHIENG OULA (SHBU/04985P/2019)	THE PUTATIVE EFFECTS OF CYANOCOBALAMINE IN THE REGULATION OF IMMUNE RESPONSES DURING SEVERE STAGE OF HUMAN AFRICAN TRYPANOSOMIASIS	2019 (ONGOING)
NANCY SALMAH MITALO (SHBU/04242P/2019)	The impact of S. mansoni on disease severity of secondary infection with T. b. rhodesiense in a mouse model	2019 (ONGOING)

COURSES TAUGHT

NAME	DESCRIPTION	PERIOD
Molecular and genetics Immunology	Studies on current immunological concepts and immunogenetics	2019 - TO-DATE
Forensic Science and Technology	This course is designed to provide students with knowledge and skills of forensic pathology, clinical forensic medicine, and forensic science.	2019 - up to date
Principles of Bioethics	Studies on key areas of principles of Bioethics.	2019 - TO-DATE
Therapeutic and Diagnostic Immunology	Studies in therapeutic and diagnostic applications.	2019 - TO-DATE
Immunology A	Principles and concepts in the diagnosis, control and prevention of human diseases.	2019 - TO-DATE
Immunopathology	Studies on pathologies related to the immune system in the human body systems.	2019 - TO-DATE