



THE TECHNICAL UNIVERSITY OF KENYA

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NAME: DR WYCLIFFE NYAMONGO ONKOBA

Faculty:	Applied Sciences and Technology
School:	HEALTH AND BIOMEDICAL SCIENCES
Department:	Biomedical Sciences and Technology
Current Designation:	Senior Lecturer, BIOMEDICAL SCIENCES AND TECHNOLOGY (DBST)
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Consultation Hours:	8AM-5PM MON - FRI



EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	Public Health	University Of Kwazulu-Natal(South Africa)	2016
Masters of Science (M.Sc.)	Applied Parasitology	University Of Nairobi(Kenya)	2012
Bachelor of Science (BSc)	Medical Laboratory Science	Maseno University(Kenya)	2005

WORK EXPERIENCE

PERIOD	INSTITUTION	POSITION
2016 - To Date	The Technical University of Kenya	LECTURER

GENERAL STATEMENT ON RESEARCH AREAS

My research interests are in host-parasite interactions, parasite biology, preclinical vaccine trials and drug screening, Vaccinology, malaria DNA vaccine, zoonotic diseases, natural products for malaria treatment and animal models for translational research. Population health, Ecohealth, disease surveillance and monitoring and epidemiology.

CURRENT RESEARCH PROJECTS

The role of climate change in transmission of jigger infestation among vulnerable communities in Kenya	Climate change and diseases
Bacteriophages as alternate curative measure against multidrug resistant bacterium	alternative use of bacteriophages as treatment strategies against multi-drug resistant bacterium
Retrovirus-host biology	Using Non-human primate to understand SIV/HIV pathogenesis

TITLE	LINK TO PULICATION
Diana Nyabundi, Nyamongo Onkoba, Rinter Kimathi, Atunga Nyachio, Gerald Juma, Peter Kinyanjui, Joseph Kamau: Molecular characterization and antibiotic resistance profiles of <i>Salmonella</i> isolated from fecal matter of domestic animals and animal products in Nairobi. 12/2017; 3(1).	https://www.researchgate.net/publication/312287023_Molecular_characterization_and_antibiotic_resistance_profiles_of_Salmonella_isolated_from_fecal_matter_of_domestic_animals_and_animal_products_in_Nairobi?ev=prf_high
Emily Muema, peter kinyanjui, james mbaria, Joseph nguta, sharon chepkwony, Joseph Kamau, Nyamongo Onkoba, Atunga Nyachio: Toxicity and Safety of Khat (<i>Catha edulis</i>) Consumption during Pregnancy using Olive Baboons (<i>Papio anubis</i>) as Experimental Models: A Prospective Randomised Study. DOI:10.15580/GJEPH.2016.3.102116188)	https://www.researchgate.net/profile/Nyamongo_Onkoba/publications?pubType=article
Nyamongo Onkoba, Joseph Kamau, Samson Mukaratirwa, Moses chimbari: Metabolic and adaptive immune responses induced in mice infected with tissue-dwelling nematode <i>Trichinella zimbabwensis</i> . 11/2016; 6(3). DOI:10.4314/ovj.v6i3.6	https://www.researchgate.net/profile/Nyamongo_Onkoba/publications?pubType=article
Joseph Michael Ochieng Oduor, Nyamongo Onkoba, Fredrick Maloba, Atunga Nyachio: Experimental phage therapy against haematogenous multi-drug resistant <i>Staphylococcus aureus</i> pneumonia in mice. 09/2016; 5(1). DOI:10.4102/ejlm.v5i1.435	https://www.researchgate.net/profile/Nyamongo_Onkoba/publications?pubType=article
Joseph Michael Ochieng' Oduor, Nyamongo Onkoba, Fredrick Maloba, Atunga Nyachio: <i>Staphylococcus aureus</i> specific lytic bacteriophages are efficacious against multi-organ bacterial infections in mice. International Journal of Integrative Biology 09/2016; 17(1).	https://www.researchgate.net/profile/Nyamongo_Onkoba/publications?pubType=article
Joseph Michael Ochieng' Oduor, Nyamongo Onkoba, Fredrick Maloba, Washington Ouma Arodi, Atunga Nyachio: Efficacy of lytic <i>Staphylococcus aureus</i> bacteriophage against multidrug-resistant <i>Staphylococcus aureus</i> in mice. The Journal of Infection in Developing Countries 06/2016; 10(11).	https://www.researchgate.net/profile/Nyamongo_Onkoba/publications?pubType=article
J. M. O. Oduor, W. Nyamongo Onkoba, F. Maloba, W. Ouma Arodi, A. Nyachio, F. I. Onditi: Safety and therapeutic efficacy of <i>Staphylococcus aureus</i> specific lytic phage against multidrug-resistant <i>S. aureus</i> (MDRSA) in BALB/c mice: A prospective study. International Journal of Infectious Diseases 04/2016; 45. DOI:10.1016/j.ijid.2016.02.278	https://www.researchgate.net/profile/Nyamongo_Onkoba/publications?pubType=article
Maria N. Kiio, Valeria N. Bosire, Damian Adoyo, Elephas Munene, Joseph Kamau, Atunga Nyachio, Nyamongo Onkoba: Pathogenesis and Immune Responses in Newborn African Green Monkeys (<i>Cercopithecus aethiops</i>) Inoculated with Simian Immunodeficiency Virus (Sivagm). DOI:10.16966/ijved.116	https://www.researchgate.net/profile/Nyamongo_Onkoba/publications?pubType=article
Ruth K Nyakundi, Onkoba Nyamongo, Jeneby Maamun, Mercy Akinyi, Isaac Mulei, Idle O Farah, D'Arbra Blankenship, Brian Grimberg, Jann Hau, Indu Malhotra, Hastings Ozwara, Christopher L King, Thomas M Karuki: Protective effect of chronic schistosomiasis in baboons co-infected with <i>Schistosoma mansoni</i> and <i>Plasmodium knowlesi</i> . Infection and immunity 02/2016; 84(5). DOI:10.1128/IAI.00490-15	https://www.researchgate.net/profile/Nyamongo_Onkoba/publications?pubType=article
Josiah Ogise, Ruth Mumo, Atunga Nyachio, Joshua Mutiso, Joseph Kamau, Nyamongo Onkoba: Adjuvants in malaria vaccine development strategies: a review. DOI:10.14800/pid.1259	https://www.researchgate.net/profile/Nyamongo_Onkoba/publications?pubType=article
Faith I Onditi, Onkoba W Nyamongo, Charles O Omwandho, Naomi W Maina, Fredrick Maloba, Idle O Farah, Christopher L King, Julie M Moore, Hastings S Ozwara: Parasite accumulation in placenta of non-immune baboons during <i>Plasmodium knowlesi</i> infection. Malaria Journal 12/2015; 14(1). DOI:10.1186/s12936-015-0631-5	https://www.researchgate.net/profile/Nyamongo_Onkoba/publications?pubType=article
Onkoba W Nyamongo, Robert M Nyarango: Prevalence of Canid Gastrointestinal Helminths Eggs in Soils from Play-grounds within the Kisii Municipality, Kenya.	https://www.researchgate.net/profile/Nyamongo_Onkoba/publications?pubType=article
Nyamongo W Onkoba, Moses J Chimbari, Samson Mukaratirwa: Malaria endemicity and co-infection with tissue-dwelling parasites in Sub-Saharan Africa: a review. Infectious Diseases of Poverty 09/2015; 4(35). DOI:10.1186/s40249-015-0070-0	https://www.researchgate.net/profile/Nyamongo_Onkoba/publications?pubType=article
W.N. Onkoba, M.J. Chimbari, J.M. Kamau, S Mukaratirwa: Differential immune responses in mice infected with the tissue-dwelling nematode <i>Trichinella zimbabwensis</i> . Journal of Helminthology 08/2015; 90(5). DOI:10.1017/S0022149X15000723	https://www.researchgate.net/profile/Nyamongo_Onkoba/publications?pubType=article
Rajesh Kumar, Ruth Nyakundi, Thomas Karuki, Hastings Ozwara, Onkoba Nyamongo, Godfree Mlambo, Barry Ellefsen, Drew Hannaman, Nirbhay Kumar: Functional evaluation of malaria Pf25 DNA vaccine by in vivo electroporation in olive baboons. Vaccine 05/2013; 31(31). DOI:10.1016/j.vaccine.2013.05.006	https://www.researchgate.net/profile/Nyamongo_Onkoba/publications?pubType=article
Joshua M. Mutiso, John C. Macharia, Maria N. Kiio, Peter M. Mucheru, Wycliffe N. Onkoba, Fredrick C. Maloba, Michael M. Gicheru: <i>Leishmania</i> parasite specific CD4+ synergizes and correlates positively with CD8+ T cells in the production of gamma interferon following immunization of the vervet monkey (<i>Chlorocebus aethiops</i>) model.	https://www.researchgate.net/profile/Nyamongo_Onkoba/publications?pubType=article

POSTGRADUATE STUDENTS SUPERVISION

NAME	PROJECT TITLE	PERIOD
Josiah Ogise	□ Immunogenicity of malaria vaccine candidate pSeBCG/TT co-expressed with natural chemokines.	2015-2017
Richard Nyachio	Host-parasite interactions in mice during malaria co-infection with tissue-dwelling parasites; Leishmania donovani and Trypanosoma brucei gambiense.	2015-2017
Kathyrin Mwangi	The role of immunological parameters in wound healing.	2015-2016
Samwel Mariera	Host immune responses during multi-infection with Leishmania donovani and Trypanosoma brucei gambiense.	2016-2018

COURSES TAUGHT

NAME	DESCRIPTION	PERIOD
Haematology	Physiology of blood	2017 - TO-DATE
Blood transfusion Medicine	Safety of blood and blood products used in therapy	2017 - TO-DATE
Clinical chemistry	Understanding pathologies and biomolecules that can be assayed for during a disease condition	2017 - TO-DATE

PROFESSIONAL AFFILIATIONS AND SOCIETIES

TITLE	INSTITUTION
Certified Medical Lab. Tech	KMLTTB