



# 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
April 2016 - May 2017	Institute of Primate Research	Senior Research Scientist
May 2007 - March 2016	Institute of Primate Research	Research Scientist
Nov. 2016 - Feb. 2022	Technical University of Kenya	Lecturer
March 2022 - 2027	Technical University of Kenya	Senior Lecturer

## GENERAL STATEMENT ON RESEARCH AREAS

Clinical Scientist with a keen interest in Infectious Diseases, R & D, Public Health and Big data.

## 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
Pediatric HIV Immunology	Pediatric HIV

#### SELECTED PUBLICATIONS

TITLE	LINK TO PUBLICATION	YEAR
Diana Nyabundi, Nyamongo Onkoba, Rinter Kimathi, Atunga Nyachieo, Gerald Juma, Peter Kinyanjui, Joseph Kamau: Molecular characterization and antibiotic resistance profiles of Salmonella isolated from fecal matter of domestic animals and animal products in Nairobi. 12/2017; 3(1).	<a href="#">View online</a>	
Emily Muema, peter kinyanjui, james mbaria, joseph nguta, sharon chepkwony, Joseph Kamau, Nyamongo Onkoba, Atunga Nyachieo: Toxicity and Safety of Khat (Catha edulis) Consumption during Pregnancy using Olive Baboons (Papio anubis) as Experimental Models: A Prospective Randomised Study. DOI:10.15580/GJEPH.2016.3.102116188)	<a href="#">View online</a>	
Nyamongo Onkoba, Joseph Kamau, Samson Mukaratirwa, Moses chimbari: Metabolic and adaptive immune responses induced in mice infected with tissue-dwelling nematode Trichinella zimbabwensis. 11/2016; 6(3)., DOI:10.4314/ovj.v6i3.6	<a href="#">View online</a>	
Joseph Michael Ochieng Oduor, Nyamongo Onkoba, Fredrick Maloba, Atunga Nyachieo: Experimental phage therapy against haematogenous multi-drug resistant Staphylococcus aureus pneumonia in mice. 09/2016; 5(1)., DOI:10.4102/ajlm.v5i1.435	<a href="#">View online</a>	
Joseph Michael Ochieng' Oduor, Nyamongo Onkoba, Fredrick Maloba, Atunga Nyachieo: Staphylococcus aureus specific lytic bacteriophages are efficacious against multi-organ bacterial infections in mice. International Journal of Integrative Biology 09/2016; 17(1).	<a href="#">View online</a>	
Joseph Michael Ochieng 'oduor, Nyamongo Onkoba, Fredrick Maloba, Washington Ouma Arodi, Atunga Nyachieo: Efficacy of lytic Staphylococcus aureus bacteriophage against multidrug- resistant Staphylococcus aureus in mice. The Journal of Infection in Developing Countries 06/2016; 10(11).,	<a href="#">View online</a>	
J. M. O. Oduor, W. Nyamongo Onkoba, F. Maloba, W. Ouma Arodi, A. Nyachieo, F. I. Onditi: Safety and therapeutic efficacy of staphylococcus aureus specific lytic phage against multidrug-resistant S.aureus (MDRSA) in BALB/c mice: A prospective study. International Journal of Infectious Diseases 04/2016; 45., DOI:10.1016/j.ijid.2016.02.278	<a href="#">View online</a>	
Maria N. Kiio, Valeria N. Bosire, Damian Adoyo, Elephas Munene, Joseph Kamau, Atunga Nyachieo, Nyamongo Onkoba: Pathogenesis and Immune Responses in Newborn African Green Monkeys (Cercopithecus aethiops) Inoculated with Simian Immunodeficiency Virus (Sivagm). DOI:10.16966/jved.116	<a href="#">View online</a>	
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 Kariuki: Protective effect of chronic schistosomiasis in baboons co-infected with Schistosoma mansoni and Plasmodium knowlesi. Infection and immunity 02/2016; 84(5)., DOI:10.1128/IAI.00490-15	<a href="#">View online</a>	
Josiah Ogise, Ruth Mumo, Atunga Nyachieo, Joshua Mutiso, Joseph Kamau, Nyamongo Onkoba: Adjuvants in malaria vaccine development strategies: a review. DOI:10.14800/pid.1259	<a href="#">View online</a>	
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 Plasmodium knowlesi infection. Malaria Journal 12/2015; 14(1)., DOI:10.1186/s12936-015-0631-5	<a href="#">View online</a>	
Onkoba W Nyamongo, Robert M Nyarango: Prevalence of Canid Gastrointestinal Helminths Eggs in Soils from Play- grounds within the Kisii Municipality, Kenya.	<a href="#">View online</a>	
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	<a href="#">View online</a>	
W.N. Onkoba, M.J. Chimbari, J.M. Kamau, S Mukaratirwa: Differential immune responses in mice infected with the tissue-dwelling nematode Trichinella zimbabwensis. Journal of Helminthology 08/2015; 90(5)., DOI:10.1017/S0022149X15000723	<a href="#">View online</a>	
Rajesh Kumar, Ruth Nyakundi, Thomas Kariuki, Hastings Ozwara, Onkoba Nyamongo, Godfree Mlambo, Barry Ellefsen, Drew Hannaman, Nirbhay Kumar: Functional evaluation of malaria Pfs25 DNA vaccine by in vivo electroporation in olive baboons. Vaccine 05/2013; 31(31)., DOI:10.1016/j.vaccine.2013.05.006	<a href="#">View online</a>	
Joshua M. Mutiso, John C. Macharia, Maria N. Kiio, Peter M. Mucheru, Wycliffe N. Onkoba, Fredrick C. Maloba, Michael M. Gicheru: Leishmania parasite specific CD4+ synergizes and correlates positively with CD8+ T cells in the production of gamma interferon following immunization of the vervet monkey (Chlorocebus aethiops) model.	<a href="#">View online</a>	

**POSTGRADUATE STUDENTS SUPERVISION**

<b>NAME</b>	<b>PROJECT TITLE</b>	<b>PERIOD</b>
Josiah Ogise	□ Immunogenicity of malaria vaccine candidate pSeBCG/TT co-expressed with natural chemokines.	2015-2017
Richard Nyachieo	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**

<b>NAME</b>	<b>DESCRIPTION</b>	<b>PERIOD</b>
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**

<b>TITLE</b>	<b>INSTITUTION</b>
Certified Medical Lab. Tech	KMLTTB