

CURRICULUM VITAE
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| Education | <p>2016-To date: Kenyatta University: Doctor of Philosophy (PhD) Immunology</p> <p>June 2009: Kenyatta University</p> <p>Degree: Master of Science in Immunology</p> |
| | <p>1999: Moi University</p> <p>Degree: BSc Zoology Second Class Honors, upper division</p> |
| | <p>Research Interests/ Expertise</p> <p>Immunology of infectious and non-infectious diseases, Stem Cell Biology Cancer Immunology, Flowcytometry applications</p> |
| Short Courses | <ul style="list-style-type: none"> • Generation and Propagation of BM-derived MSCs from mice 22-24th Oct 2018 Kemri • Statistics and STATA training 22nd to 26th May 2017, Kemri Training Center • Proposal Writing for Grant Sourcing Training University of Texas Medical Branch (UTMB), KEMRI 14-18 February, 2016 • Stem Cell Research: Institute for Cellular & Molecular Medicine, stem Cell Research Unit, University of Pretoria 18th May-12th June 2015 • 2nd Course of Infectious Diseases: Updates in Clinical and Laboratory Diagnosis" November 17th to Dec 17th 2013, Suez Canal University Ismailia-Egypt • "Immunology in the Tropics" short course 1st -16th Sept 2011 MRC/Uganda Virus Research Institute-Entebbe, Uganda • International Course on Clinical Immunology of Infectious diseases and Total Quality Management (ICCI-TQM) Oct/Nov 2008 Faculty of Medicine, Suez Canal University, • Supervisory Skills Development Workshop 22-24th Aug 2012, KEMRI • Effective scientific communication and publishing Year attained: Dec 2006, UoN • Introduction to Epi info Computer Program CDC/KEMRI –Aug 22nd-25th 2005 |
| Trainings | <ul style="list-style-type: none"> • Strategic Leadership Development Course 7th May to 15th June 2018 Kenya School of Government, Lower Kabete (fully sponsored by Kemri) • Good Clinical Laboratory Practice, 18th -21st June, KEMRI Training centre • Supervisory Skills Development Workshop 22-24th Aug 2012, KEMRI • REMOxTB Good Clinical Practice (GCP) UoN, 21st Aug 2009 KEMRI • Good phlebotomy practice/Clinical CD4 Good Laboratory Practice 8th -10th Aug 2009 KEMRI/BD • FACSACalibur GLP, 2007 KEMRI/BD • Biorisk Training Course 9-12th May 2013 • Hospital management committee Government guidelines, March 2011, MoH |

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| <p>Conferences /Workshops Attended</p> | <ul style="list-style-type: none"> • Global Forum on Bioethics in Research conference Stellenbosch, South Africa from 13th – 14th November 2018 • Cell Biology and Regenerative Medicine Research workshop 27th June to 1st July 2016 in Stellenbosch, South Africa. • 7th KEMRI Annual Scientific and Health Conference (KASH) 8th to 10th Feb 2017 Panari Hotel, Nairobi • The 6th KEMRI Annual Scientific and Health (KASH) Conference “Research for health in a devolved system” 9th to 11th Feb 2016, BOMA Hotel-Nairobi • KNH/UoN Cancer Symposium “Taking Cancer Care to the Next Level” - 8th April 2015 Kenyatta National Hospital Research and Program Department • African Society for Laboratory Medicine (ASLM) Conference, 29th Nov to 4th Dec 2014, Cape Town International Convention Centre, South Africa. • Training and Mentoring African Scientists in Stem Cell and Regenerative Medicine Research 16th to 18th June 2014, African Academy of Sciences, Nairobi, Kenya • Cell Therapy and Regenerative Medicine Sensitization Workshop 11-13th Nov 2013, African Academy of Sciences, Nairobi Kenya • “Follow- up Joint Workshop for the International Course for Clinical Immunology (ICCI) of Infectious Diseases” 17th – 22nd October, 2014, Suez Canal University, Egypt. • National Action Plan Workshop, National CBRN Team of Kenya, 8-9 May 2014 United Nations Nairobi • 10th Annual Conference on “Laboratory Challenges for Molecular Medicine” held at Clinical Pathology Department, FOM-Suez Canal University Egypt 16th -17th Dec 2013 ‘Prevalence of Hepatitis B and C viral co-infections among HIV-1 infected individuals in Nairobi, Kenya’. • KeMU Research Conference “Prevalence of CCR2 gene polymorphisms among HIV infected individuals from different regions in Kenya” 25th -27th April 2012 • 1st KEMRI Annual Scientific and Health (KASH) Conference, 9-11th Feb 2011 • KEMRI Annual Scientific and Health Seminar: CBRD-KEMRI/BD partnership in Research and Training; 25th May 2012 • National Biological postgraduate Scientific Conference-Kenyatta University 8th -10th |
| <p>Research Writings</p> | <ul style="list-style-type: none"> • Dorcas Wachira, Raphael Lihana, Vincent Okoth, Alex Maiyo, and Samoel Ashimosi Khamadi Chemokine Coreceptor-2 Gene Polymorphisms among HIV-1 Infected Individuals in Kenya Disease Markers Volume 2015 (2015), Article ID 952067 • Beatrice Mukami Muriuki¹, Michael Muita Gicheru¹, Dorcas Wachira³, Anthony Kebira Nyamache^{23*} and Samoel Ashimosi Khamadi³—Prevalence of Hepatitis B and C viral co-infections among HIV-1 infected individuals in Nairobi, Kenya (2013) <i>BMC Research Notes</i> 2013, 6:363 • Albert K; Willy K. Tonui; Michael M; Peter N; Johnstone I; Stella K; Laban N; Dorcas W; Robert K; Milkah M and Lydia N. Evaluation of the Adjuvanticity with Soluble Leishmania Major Antigens in BALB/c Mice (2009). Journal of Nanjing Medical University, 23(6): 1-14. • Evaluation of the adjuvanticity of artemisinin with soluble Leishmania major antigens in BALB/c mice. Kimutai, Albert; Tonui, Willy K.; Gicheru, Michael M.; Ngure, Peter Kamau; Ingonga, Johnstone; Kepha, Stella; Njeru, Laban Ireri; Wachira, Dorcas; Muhia, Robert Karanja; Mwangi, Milkah; Nyamwamu, Lydia B. Journal of Nanjing Medical University vol. 23 issue 6 November, 2009. p. 359-372 |

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| WORK | <p>JAN 2005-TO DATE: KENYA MEDICAL RESEARCH INSTITUTE (KEMRI) CENTRE FOR BIOTECHNOLOGY RESEARCH AND DEVELOPMENT (CBRD) Immunology Section</p> <ul style="list-style-type: none"> • 2012 to date: Research Officer: • 2005 to 2011: Assistant Research Officer • Laboratory Supervisor- KEMRI/BD Flow cytometry Laboratory • Member CBRD Center Scientific Committee <p>Duties and Responsibilities</p> <ul style="list-style-type: none"> • Ag Section Head, Immunology Section • Proposal development • Implementation of funded research projects • Review of manuscripts and proposals • Development of Immunology section Procurement Plan • Development and implementation of the Annual Work Plan for the section • Holding quarterly section meetings for the section • Compilation of Quarterly PCs for Immunology section • Member, CBRD scientific committee • Internal and External Quality Control/Quality Assurance in CD4 testing in monitoring and management of HIV/AIDS • Coordinator and Facilitator: KEMRI-BD, trainings on Immunophenotyping and Good Laboratory Practices • Perform any other duties as assigned by the Deputy Director, CBRD <p>Ongoing Funded Research Activities</p> <ul style="list-style-type: none"> • Establishment of a Stem Cell Research Unit at Kemri Role: Co-PI and Team leader, Stem Cell Research Group Ksh 77.1 Million • Inactivation of the PRH/HHEX tumour suppressor and its effects on inflammatory signalling in prostate cancer (Co-I in charge of the Immunological aspect of the study) –The Newton Fund under UK-Kenya Health Research funded by NRF- Ksh 20 Million • Generation, Characterization, Maintenance and Propagation of Mice Bone Marrow Derived Mesenchymal Stem Cells and Their Application in Pre-Clinical Animal Model of Diabetes Role: PI Ksh 7 Million • The Role of <i>Plasmodium falciparum</i> HSP90 in Antimalarial Drug Treatment Outcome in a 2 Malaria Endemic Region, Kisumu County (IRG) Role: PI Ksh 1 Million • Spatial distribution and Epidemiology of cancer in Kenya, GoK funding; Role: Co-PI Ksh 2 Million • Genomic Approaches for Understanding Breast Cancer Progression in Kenyan Patients-NRF funding Role: Co-I (Ksh 19M) • Functional consequences and gene expression patterns during singular and concurrent application of IL-21 and Rapamycin on Tumor Antigen specific T cells in vitro and in vivo (NACOSTI GRANT) Role: PI Ksh 2 Million • Development and evaluation of Helicase Dependent Isothermal DNA Amplification and OligoChromatographic dipstick assay (HDA-OC) for point-of-care diagnosis of <i>Wuchereria bancrofti</i> and disease surveillance Role: Co-I • Evaluation of isothermal amplification methods and development of an OligoChromatographic dipstick assay for point-of-care diagnosis of <i>Wuchereria bancrofti</i> and disease surveillance Role: Co-I <p>Completed Research Projects</p> <ul style="list-style-type: none"> • Role of HIV Co receptors on the progression and pathogenesis of HIV/AIDS Role: PI • Prevalence of Hepatitis B and C viral co-infections among HIV-1 infected children and adults in Kenya Role: Co-PI • Prevalence of HSV-2 in HIV-1 infected persons in the Kenyan Population Role, Co-PI • Pediatric/Adult CD4/CD8 testing for HIV positive infants/adults in Kenya: Role, Co-PI • Operational Research Training Needs Assessment for Health Care Workers in the County Governments (Member and secretary, Training Technical Working Group) |
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| Other Appointments | <ul style="list-style-type: none"> • May 2018 to May 2021: Biotechnology Technical committee – Kenya Bureau of Standards (KEBS) • Dec 2017 to Dec 2020: Chair, Christian and Scientific Association of Kenya Kemri Chapter • Nov 2015 to date; National Aids Control Council (NACC) Technical Review Team Member for KASF 2014/15-2018/19 and County HIV/AIDS Strategic Plans (CASPs) • 2016-2019; Chair, Kihome School Board of Management • Feb 2014-to 2015; Member, Chemical, Biological, Radiological and Nuclear (CBRN) subcommittee) • April 2010-2013 Member, Nyeri Provincial General Hospital Board of Management, and Chairperson of Quality Control Subcommittee • August 2011- 2013 Member board of Management Michuki technical Training |
| Mentorship & Teaching Experience | <ul style="list-style-type: none"> • Mentee: Cell Biology and Regenerative Medicine, The African Academy of Sciences • Mentor: University Biomedical Research students on attachment/internship, MSc students and Graduates • Student Supervision: <ol style="list-style-type: none"> i. Bernard Otieno Oduor (MSc. Molecular Medicine) Jomo Kenyatta University of Agriculture and Technology Arresting and expanding T cells at the Tscm cell stage through singular and concurrent application of IL-21 and Rapamycin <i>in vitro</i>; ii. Emily Waigi (MSc. Molecular Medicine) Jomo Kenyatta University of Agriculture and Technology Quantification and comparison of the metabolic gene expression patterns (transcriptomic) of AFP Antigen specific T cells during singular and concurrent application of IL-21 and Rapamycin <i>in vitro</i> • Mentor: University Biomedical Research students on attachment/internship, MSc students and Graduates • Assistant Lecturer: ITROMID |
| REFEREES | <p>Referees</p> <p>Dr. Luna Kamau Deputy Director, Centre for Biotechnology Research and Development, Kenya Medical Research Institute P. O. Box 54840 00200 Nairobi-Kenya Mobile: +254724751333. Email: lkamau@kemri.org</p> <p>Dr. Francis W. Makokha Head: Human Health Research Program Directorate of Research and Innovation Mount Kenya University P.O Box 342-01000 Thika Mobile: +254722318247 Email: fmakokha@mku.ac.ke</p> <p>Dr. Kimani Gachuhi Kenya Medical Research Institute P. O. Box 54840 00200 Nairobi-Kenya Mobile: +254722864834 Email: kgachuhi@kemri.org</p> |