

1.0 PERSONAL INFORMATION

Name: Anthony Kebira N
Current Address: Department of Microbiology
 Kenyatta University
 P.o Box 43844,
 Nairobi, Kenya
Gender: Male
Marital Status: Married with three children
Nationality: Kenyan
Current Position: Senior Lecturer/Research scientist
Profession: Medical Microbiologist/ Virologist
Email: akibera2000@gmail.com or nyamache.anthony@ku.ac.ke

**PART 1.1 LANGUAGE**

Languages	Reading	Speaking	Writing
English	Excellent	Excellent	Excellent
Kiswahili	Excellent	Excellent	Excellent

PART 2.1 (a) ACADEMIC QUALIFICATIONS

INSTITUTION AND LOCATION	DEGREE	MM/YY	FIELD OF STUDY
Indian Medical Institute, Virology Unit	Post doc	2013	HBV/HCV/HIV
Jomo Kenyatta University of Agri. & Technology	PhD	2011	Medical Virology
Jomo Kenyatta University Of Agr. & Tech	M.Sc	2008	Medical Virology
Jomo Kenyatta University of Agric. & Tech	B.Sc	2004	Medical Microbiology
Technical University of Mombasa	Diploma	1999	Medical lab Sciences

PART 2.1 (b) OTHER QUALIFICATIONS

- Computer packages ; Ms Word, Ms Excel, Ms power point, Ms Access, SSPS for word, Ms. outlook etc.
- Bioinformatics tools competency: BEAST, MEGA4, MEGA5, BioEdit, PHYLIP, Neighbour joining, ClustaW W/X, Monkey, BLAST, geno2pheno, ds Kernel, C-PSSM, phylm, data mining etc

PART 2.1 (c) PROFESSIONAL COURSES

7-8th May 2015: TDR-WHO follow- up Workshop on Grant application, Scientific Writing and Public science communication Workshop, Karen Nairobi.

16-19th Sept 2014: WHO-TDR manuscript and research grant writing workshop, **Karen Nairobi.**

Jan-March 2013: **Institute of Biomedical Technology, National Research Institute, Pisa Italy:** HIV viral tropism using Ghost cells in tissue culture.

Supervisor: Dr. Diana Boraschi

17-21st /06/ 13: First workshop on Mathematical modeling for science research and development, Kenyatta University

13-17/08/12: Advanced genomics and bioinformatic workshop: Viral and bacterial metagenomics and next generation sequencing, ILRI, Nairobi Kenya

- 5/05-1/6/2012:** AuthorAID-IFS Workshop on Scientific Writing at The African Academy of Sciences, Nairobi, Kenya, 28 May-1 June 2012
- 29.7.11-19.8.11:** **University of Younde1**, Soft skill training, grant applications, communications, project management.
Supervisor: Prof Wilfred Mbacham
- 1--19/07/11:** Project implementation, grant application and management soft skills workshop, University of Younde1 Cameroon
- 1.05.11-1.07.11:** **Mbeya Medial Research Programme, Mbeya, Tanzania.** Real Time PCR for Mycobacterium complex detection and drug resistance testing, TB culture, BACTEC and drug resistance testing, T-spots, ELISpot and immunological profiling.
Supervisor: Dr. Leonard Maboko, Dr Lucas Maganga
- 1.11.10-19.12.10:** **University of Cape Town, institute of infectious diseases and molecular medicine, ICGBE** Laboratory training on techniques in; ELISpot, PPAA, cytokine and proliferation assays RT-PCR and cell culture techniques and DNA sequencing.
Supervisor: .Prof Iqbal Parker
- April 2010:** **University of Makerere, Department of Medical biochemistry.** Poverty related diseases/ Infectious diseases molecular disease mechanisms and applications in poverty reduction.
Supervisor: Prof Fred Kironde
- 19/10/09:** 2010 Scientific Strategic Plan Consultation on AIDS Vaccine, Paris France
- 18-19th /10/09:** Standardized Measurement of Neutralizing Antibodies to Advance HIV Vaccine Development, Workshop 18-19 October 2009 Paris France
- 1.08.08-1.05.09:** **University of Stellenbosch, Medical Virology division, Promoter Prof Susan Engelbretch.** Advanced techniques in Molecular characterization of HIV genome: Molecular biology techniques: PCR, vector cloning, DNA Sequencing, Allele specific PCR sequencing, ultra deep sequencing, Phenotypic and genotypic HIV drug resistance testing.
Supervisor: Prof Susan Engelbretch
- 21/07/09:** Workshop on Scientific Writing *Publish or Perish* by Journal of the International AIDS Society, Cape Town South Africa
- 22-26/06/09:** 2nd Workshop on Pharmacogenomics & bioinformatics, Pharmacogenetics of Drug Metabolism, Nairobi, Kenya, University of Nairobi, Kenya, African Institute of Science and Technology, Zimbabwe
- 4th-5th/05/09:** Introductory course in Bioinformatics, CGRI/ ILRI Nairobi Kenya
- 26-27th/03/09:** Science and technology-Europe Africa Project Workshop, European Union's 7th framework programme for Research, Hilton Hotel Nairobi Kenya
- 10th /02/09:** Emergency First AIDS, training, St John Ambulance Nairobi
- 19th-24th01/09:** Principle of HIV research, application in today's research training course, University of Washington, Centre for HIV/AIDS research, Seattle USA & Centre for clinical research, Kenya Medical Research Institute KEMRI Headquarters Kenya
- 03/10/08:** Use and application of QiaCube automated RNA/DNA extractions from viruses, bacteria, fungal, PBMCs, Plasma and body fluids. Division of Medical virology, University of Stellenbosch, Cape Town South Africa
- 5/09/08:** HIV drug resistance and its implication in clinical practice University of Western Cape, Cape Town South Africa
- 22/08/08:** Real Time PCR and its applications in diagnostic & research Division of Medical virology, University of Stellenbosch, Cape Town South Africa

3.0 FELLOWSHIPS

- 2013:** **Post doctoral fellow:** HBV/HCV genetic diversity and evolutionary trends among HIV co infected populations of Kenya" under supervision of Dr. Runu Chakravarty, by Indian Government, ICMR, Virus Unit, Kolkata, India
- 2009-2013:** **Fellow:** Poverty Related Diseases (PRD) College, an International programme in Biomedicine and Development under the European Union Framework Programme 7 [EU-FP7]. (<http://www.prd-college.eu>).

- 2008-to 2011:** **Doctoral research fellow: CVR, KEMRI, Kenya & University of Stellenbosch South Africa**
Project: Evaluation of HIV evolution and its role in development of antiretroviral drug resistance in Nairobi COHORT
- 2006-to 2008:** **Research fellow, CVR, KEMRI, Kenya. Project:** Evaluation of Transmitted drug resistance strains among Kenyan population

3.1 RESEARCH INTERESTS

- Viral Transmission dynamics
- HIV-1/HBV/HCV confections ; sexual Networks, Evolution, history and origins, Phylogeography and Phylodynamics
- HIV-1 and HBV Genetic Diversity and Antiretroviral Drug Resistance studies

4.0 EMPLOYMENT HISTORY/WORK EXPERIENCE

- Feb 2016 to date: **Senior Lecturer:** Teach Undergraduate and Postgraduates: Departments: Microbiology/ Medical Laboratory sciences, Pharmacy, Nursing, MBChB: Units Both basics and advanced course in Medical Microbiology, Virology, Mycology and Immunology
- 24/7/2012-Nov 2015: **Lecturer:** Teach Undergraduate and Postgraduates: Departments: Microbiology/ Medical Laboratory sciences, Pharmacy, Nursing, MBChB: Units Both basics and advanced course in Medical Microbiology, Virology, Mycology and Immunology.
- 5/ 2010-7/ 2012: **Tutorial Fellow** Undergraduate: Departments: Microbiology/ Medical Laboratory sciences, Pharmacy, Nursing, MBChB: Units Both basics and advanced course in Medical Microbiology, Virology, Mycology and Immunology.
- 2010 to date: **Part-time lecturer** JKUAT and Great Lakes University- Nairobi Campus: Departments of Medical lab science, Public Health & Zoology and Nursing for Great University of Kisumu: Units; *Medical Microbiology, Clinical Virology and Immunology units*
- 2005-2010: Laboratory Technologist, Dept of /Medical Microbiology, Botany JKUAT
- 1/2005-5/2005: **Research Technologist:** University of Washington/ University of Nairobi HIV/AIDS, CTL Collaborative research.
Project: Evaluation of HIV-1 immune responses positive mothers and their infants and determinations of disease progression markers PI: Prof. James N Kiarie, MD, MMED, MPH
- 2003-2005: **Research assistant**, African Medical Research Foundation, Nairobi Office Kenya Monitoring of HIV drug naïve and experienced patients, Prevention of mother to child HIV projects
- 2001-2003: Laboratory in-charge, Maximum Medical Centre, Nairobi, Kenya
- 2000-2000: Laboratory histotechnologist, Nairobi City Mortuary, Nairobi, Kenya
- 1998- 2000: Laboratory technologist, Aga Khan Hospital P.O Box 30270 Nairobi, Kenya

5.0 ADMINISTRATIVE RESPONSIBILITIES

5.1 DEPARTMENTAL LEVEL

- 2014-date: Chair, Board of Post graduate studies, Department of Microbiology
- 2014: Feb/March: Acting Chairman Department of Microbiology
- 2014-date: Chair and Co-ordinator Departmental of Microbiology, ISO, Quality Management System
- 2014-date: Chair, Department of Microbiology Biosafety committee
- 2013-date: Advisor, Post graduate studies
- 2013-date: Department of Microbiology, Time Tabler
- 2010- 2013: Assistant Microbiology coordinator, Department of Plant & Microbial Sciences
- 2010-2013: A member of , board of undergraduate, Dept of Plant & Microbial sciences
- 2010-2013: A Member of Quality Management System Committee, Dept of plant and Microbial sciences

5.2 SCHOOL LEVEL

2014 to date: School of Pure and Applied science, Research committee member

6.0 POST GRADUATE SUPERVISION

6.1 UNDERGRADUATE PROJECTS COMPLETED

SN	Student Name.	Degree	Research Project	Supervisors	status
1.	Chacha G. Alphose.	BSc Microbiology	Antimicrobial susceptibility profiles of bacteria isolated from urine causing urinary tract infection from patients visiting Kenyatta University Health Unit.	Dr. A. Kebira	Graduated 2011
2.	Collins Ogari.	BSc Microbiology	Prevalence of <i>Shigella</i> species and their antimicrobial resistance patterns among patients visiting Kenyatta University Health unit, in Nairobi Kenya	Dr. A. Kebira	Graduated 2011
3.	Gachanja E. Wambui.	BSc Microbiology	Prevalence of HIV-1 in infants aged 0-18 months at Kangemi health centre and Mbagathi Hospital, Nairobi Kenya	Dr. A. Kebira	Graduated 2011
4.	Osborn Khasabuli.	BSc Microbiology	Isolation and molecular characterization of antibiotic producing actinomycetes in virgin soils of Kenyatta University	Dr. A. Kebira	Graduated 2011
5.	Ong'era B. Caroline	BSc Microbiology	Detection and determination of antibiotic residues in beef its safety for human consumption using drug residue quantification method.	Dr. A. Kebira	Graduated 2012
6.	Kabiru Salome Wairimu	Bsc Microbiology	Rotavirus detection and prevalence establishment from diarrheic stool samples in Kiambu County	Dr. A Kebira	Graduated 2015
7.	Methuselah N.	Bsc Microbiology	Microbial quality of raw vegetables prepared and	Dr. A Kebira	Graduated 2015

	Mang'erere		sold by street food vendors along Kenyatta university environs		
8.	Azenga Kivihi Kevin	Bsc Microbiology	Microbial quality of water used by KM residents in Ruiru sub county	Dr. A Kebira	Graduated 2015

6.2 MSc SUPERVISION COMPLETED

SN	Student Name & Registration No.	Degree	Research Project	Supervisors	status
1.	Njue J. Kinoti	Msc-Infectious diseases (Virology), KU	Prevalence of HIV infection among <i>catha edulis</i> (Miraa) abusers in Meru	Dr. A. Kebira Dr. Lucy Kamau	Graduated 2013
2.	Wahome C. Nyawira	Msc – Microbiology, KU	Bacteriological assessment of ground water contamination through <i>salmonella</i> and <i>shigella</i> isolation and determining prevalence of antibiotic resistance in Ongata Rongai	Dr. A. Kebira Prof. P Okemo	Graduated 2013
3.	Waithaka P. Njenga	Msc-Microbiology, KU	Risk factors and control methods of salmonellosis among patients visiting selected health facilities in Nakuru North district, Kenya	Dr. A. Kebira Dr. J. Maingi	Graduated 2013
4.	Rono K Benard	Msc Microbiology, KU	Determination of bacteriological quality of fresh beef post-harvesting in Nyagacho slum, Kericho, Kenya	Dr. J Maingi Dr. A. Kebira	Graduated 2014
5.	Mwangi Z Maingi	Msc-Infectious diseases (Virology), KU	Prevalence of Cytomegalovirus among pregnant women attending Thika Level 5 District hospital, Kiambu County	Dr. A. Kebira Dr. S. Runo	Graduated 2014
6.	Moto J. Ndunge	Medical Microbiology-Mycology, KU	Prevalence of <i>Trichophyton</i> and <i>Microsporum</i> species causing tinea capitis in children aged between 3-14 years in Mathare informal settlement, Nairobi	Dr. A. Kebira Dr. J Maingi	Graduated 2014
7.	Seila I Nyamwaka	Msc-Microbiology-Mycology, KU	Determination of Fungi and factors associated with their growth on sun ried <i>Rastrineobola argentea</i> in Gucha south,	Dr. A. Kebira Dr. J Maingi	Graduated 2014

			Kisii County, Kenya		
8.	Schifra Uwamungu	MSc Medical Lab sciences- Hematology, JKUAT	Coagulation factors levels in fresh frozen plasma in Rwandese.	Dr. A. Kebira KU Dr. S. Njoki JKUAT Dr. Florence Masaisa, University of Rwanda	Graduated 2014
9.	Peter K. Laibu	Msc- Microbiology, KU	Determination of microbial composition of pond water and their effects on fish farming in Imenti central, Meru County	Dr. A. Kebira Dr. J Maingi	Graduated July 2015
10.	Mutinda Josphat	Msc- Medical Microbiology, KU	Epidemiology of bacterial pathogens of the upper respiratory tract in Kitui district hospital,	Dr. A. Kebira Dr. J Maingi	Graduated July 2015
11.	Grace Gachara	Msc- Microbiology- mycology, KU	Genetic diversity of <i>Aspergillus flavus</i> and occurrence of aflatoxin contamination in stored maize across three agro-ecological zones in Kenya." July 2015	Dr. A. Kebira Dr. G.J.B. Gnonlonfin, ILRI, Kenya	Graduated July 2015
12.	Omwoyo, H. Nyang'au	Msc Microbiology, KU	The efficacy of medicinal plants locally used within Transmara west district against selected <i>Enterobacteria</i> spp and <i>Candida albicans</i> .	Dr. A. Kebira Dr. J. Maingi	Graduated July 2015

6.3 MSc SUPERVISION ON-GOING

SN	Student Name & Registration No.	Degree	Research Project	Supervisors	Status
1.	Koigi K Peter.	Msc-Infectious diseases (Virology), KU	A comparative study of HIV-1 drug resistance mutation testing using dried blood spots and plasma samples	Dr. A. Kebira Dr. Caroline Ngugi, JKUAT	Thesis submitted
2.	Bundi M. Justine.	Msc – Microbiology, KU	Identification and characterization of <i>salmonella</i> isolates in Kisii level-5 hospital and determination of their antimicrobial resistance profiles.	Dr. A. Kebira Dr. J. Maingi	Revising thesis for submission
3.	John Kibet Kirui.	Msc-	Multidrug resistance	Dr. A. Kebira	Revising

		Microbiology, KU	tuberculosis (MDRTB) a threat to the elimination of tuberculosis in Kenya, a case study of Central province.	Dr. J. Maingi	thesis for submission
4.	Peter O. Nyauncho.	Msc Microbiology, KU	Contribution of hospital wastewater to the spread of antibiotic resistance in comparison to non-health institution	Dr. A. Kebira Dr. J Maingi	Revising thesis for submission
5.	Nyasimi A.Gershom.	Msc-Microbiology, KU	Investigation of microbial qualities of water in Sigor division, Pokot central district.	Dr. A. Kebira Dr. J Maingi	Thesis writing
6.	Caroline Kinya	Msc-Infectious diseases (Virology), KU	Prevalence of HIV-1, Hepatitis B (HBV), Hepatitis C (HCV) and Hepatitis Delta (HDV) Viruses in the Kenyan drug abusers Population.	Dr. A. Kebira Prof. Ngeranwa	Thesis writing
7.	Cosmas B Muyabwa	Msc-Infectious diseases (Virology), KU	Evaluation of the sensitivity of e6/e7 mRNA based on cervical cancer screening in Kenya.	Dr. A. Kebira Dr. J Muturi	data collection
8.	Chepng'eno Maureen	Msc- Medical Microbiology, KU	Prevalence and antifungal drug susceptibility of <i>Candida</i> strains from clinical sources in Kericho, Kenya.	Dr. A. Kebira Dr. J Maingi	Data collection
9.	Peris W. Cheche	Msc-Medical Microbiology, KU	Prevalence of catheter associated urinary tract infections at the Nyeri Provincial General Hospital	Dr. A. Kebira Dr. J Maingi	Thesis writing
10	Muturi S. Njagi	Msc-Microbiology, KU	Evaluation of pathogenic bacteria causing water borne diarrheal diseases along Thiba basin and the level of antibiotics resistance	Dr. A Kebira Dr. J. Maingi	Thesis writing
11	Kambona R. Njeru	Msc-Infectious diseases (Virology), KU	Genetic diversity of circulating HPV type 16 among Kenyan women as determined by restriction fragment length polymorphism assay	Dr. A. Kebira Dr. J Muturi	Data collection
12	Usagi Betsy Maryanne: I56/CE/23959/2011	MSc Medical Microbiology, KU	Identification and determination of antimicrobial resistance profiles of <i>mycobacterium tuberculosis</i> complex isolates from hiv positive patients in Kisumu	Dr. A Kebira Dr. J. Maingi	Thesis writing

			County, Kenya		
13	Chemjor Richard Cheboite: I56/CE/10166/04	MSc Medical Microbiology, KU	molecular characterization of selected pathogenic bacterial isolates from herbal medicinal products sold in eldoret and marigat, KENYA	Dr. A. Kebira Dr. J Maingi	Thesis writing
14	Hibert Rachuonyo Opinde: I56/20520/2012	MSc Microbiology, KU	Antimicrobial activity of crude extracts from some selected medicinal plants on selected enteric bacterial pathogens and <i>Candida albicans</i>	Dr A Kebira Dr. G Gatheri	Thesis writing
15	Lewa Pole Said	MSc- Medical Microbiology, KU	Antimicrobial susceptibility profile of <i>Neisseria gonorrhoea</i> isolates from symptomatic men and men who sex with attending a sexually transmitted disease clinic in Nairobi – Kenya.	Dr. A. Kebira Prof Omu Anzala (UoN)	data collection
16	Kerubo Willimah Nyabuto	MSc- Medical Microbiology, KU	Drug susceptibility of <i>Helicobacter pylori</i> isolated from untreated well water in the peri- urban Timbwani- Likoni.	Dr. A. Kebira Dr. J Nonoh	Proposal approval
17	Collins Ogari	Msc Medical Microbiology, KU	Genetic diversity and prevalence of MDRTB among patients visiting selected health facilities in Nairobi, Kenya	Dr. A. Kebira Dr. James Nonoh	Data collection
18					
19					

6.4 PhD SUPERVISION –ON GOING

SN	Student Name & Registration No.	Degree	Research Project	Supervisors	status
1.	Esther Wanjiku Muita	PhD- Medical Cytology, KU	Microbial, occupational and lifestyle determinants of cervical cancer in Nakuru County	Dr. Tom Were Dr. A. Kebira	Data collection (70%) complete
2	Regina Ntabo	PhD Microbiology, KU	Isolation & Characterization of bioactive endophytic Bacteria associated with	Dr. J. Nonoh Dr. A. Kebira	Data Collection (40%) complete

			selected plants of Kenya's mangrove ecosystem		
3	Odongo Oduor	PhD Medical Virology, KU	Development of Predictors algorithm for Mortality, Drop Out and Immuno-virologic outcomes among HIV-1 infected Intravenous Drug Users receiving highly active antiretroviral therapy in Malindi, Kenya	Dr. A. Kebira Dr. Raphael Lwembe	Data collection (20%) complete

6.5 THESIS EXAMINED

6.5 a) MSc. Thesis Examined

- 1) **Esther Waithira Kamau:** Effect of the use of *Trichoderma asperellium* as bio-control agent of root knot nematodes on nodulation of French beans in Kenya". Msc thesis 2014
- 2) **Chekorir Soy Linner's** Msc thesis Titled: 'Invitrio Antifungal activities of *Azadirachta indica* AND *Warburgia ugandensis*' 2014 Internal Examiner.
- 3) **Ms Ithinji Jane Kathira's** Msc thesis Titled: "Effect of soil amendment with manure on nodulation and nitrogen fixation in soy beans and climbing beans in Meru County, Kenya. 2014 Internal Examiner
- 4) **Mr. Clive Nyambane's** Msc thesis Titled: Prevalence and susceptibility profiles of urinary tract infections in children presenting at Kisii level 5 Hospital, Kisii country. 2014 Internal Examiner
- 5) **Ms India Jacqueline's** Msc thesis Titled: "Efficacy of some selected medicinal plants used in various parts of Kenya in treating selected bacterial and fungal diseases. 2014 Internal Examiner
- 6) **Mr. Mung'ang'a Elijah Mativo's** Msc thesis Titled: Amoebiasis levels in relation to sanitation and personal hygiene among patients attending Kauwi and Muthale Hospitals in Kitui County, Kenya". 2014 Internal Examiner
- 7) **Abuga Samwel Onyambu:** "Efficacy of selected medicinal plants used by the Samburu community against selected bacterial and fungal pathogens" Msc thesis 2013 Internal Examiner
- 8) **Mr. Newton Ombese Osoro's** Msc thesis Titled: 'Composting and effects of water hyacinth (*Eichhornia crassipes*) compost on growth and yield of *Phaseolus Vulgaris* and *Zea mays*. 2013 Internal Examiner.
- 9) **Samwel Abuga.** Msc 'Efficacy of selected medicinal plants used by the Samburu community against selected bacterial and fungal pathogens. 2013 Internal Examiner.
- 10) **Victor G Nganga:** A comparative study of the physico-chemical properties and bacterial load of greywater in Homabay town and Githurai estate. 2013 Msc Thesis Internal examiner.
- 11) **Kithure Robert Kariba:** Genetic diversity of *Faidherbia albida* (Del) A. chev collections held at the world Agroforest centre (ICRAF) as revealed by AFLP Markers. 2013 Msc Thesis. Internal Examiner
- 12) **Thuranira Silas G:** Evaluation of low cost materials and techniques for sowing production by farmers in Kenya. Msc thesis. 2013 Internal Examiner.
- 13) **Grace N Togo Khayota:** Prevalence of HSV-2, Syphilis and Hepatitis B Virus in HIV-1 infected immunocompromised persons in selected Health facilities in Nairobi. 2012 Msc thesis internal examiner
- 14) **Japheth Wambani Rapando:** Hepatitis B and C coinfections and disease markers among HIV infected patients attending academic proving access to healthcare clinic, Kenya, 2015", 2015 Msc thesis internal Examiner.
- 15) **Macharia John Macharia's** Msc thesis Titled: "Prevalence, characteristics and risk factors associated with *Staphylococcus aureus* presence in Marketed milk and milk products within Nairobi county, Kenya" MSc thesis internal Examiner

6.5 b) PhD THESIS EXAMINED

- 1) **Omari Amuka:** Efficacy of selected medicinal plants used by the Ogiek community against Microbial related conditions. 2013 Doctorate Thesis. Internal Examiner
- 2) **Wanzala Everlyne Nafula Doctoral thesis Titled: ‘Evaluation of antitrypanosomal activity of extracts of selected Meliaceae plant species by *in vitro* and *in vivo* assays’.** 2015 Doctorate Thesis. Internal Examiner
- 3) **Mwajuma June Jeophita’s PhD thesis Titled: ‘Community dynamics of metagenome bacteria of drinking water distribution systems in Mombasa County, Kenya’**

6.5 c) EXTERNAL THESIS EXAMINATIONS

- 1) **Sandra Kendra Raini MSc Virology:** Characterization of Human Rota Virus group A serotypes causing gastroenteritis in children below 5 years and HIV infected adults of Viwandani slum in Nairobi, Kenya. External Examiner JKUAT 2015.
- 2) **Elizabeth A. C. Luvai’s MSc Virology:** Evaluation of predictor of HIV/AIDS treatment failure in a cohort study from comprehensive care clinic in Nairobi, 2013. External Examiner JKUAT 2015.
- 3) **Salama Mahfudh’s MSc Medical Microbiology:** Generation of monoclonal antibodies against Rift Valley fever and evaluation of their diagnostic potential. External Examiner JKUAT 2015.

7.0 CONFERENCE ABSTRACTS AND WORKSHOPS

- 1) Peter Koigi, Musa Otieno, Caroline Ngugi and **Anthony Kebira Nyamache.** Genotyping of HIV type 1 drug resistance among patients with immunological failure to first and second line antiretroviral therapy in Kenya. The 3rd Medical and veterinary virus Research in Kenya (MVVRK) symposium 2014. Hilton Hotel, Nairobi Kenya.
- 2) G.Gachara; **A.K. Nyamache;** G.J.B. Gnonlonfin; J. Harvey; J. Wainaina; I. Wanjuki, and R. Skilton. Post-harvest fungi diversity and aflatoxin contamination in stored maize in Eastern and Western Kenya. Poster presentation. 19th International Scientific Conference, 11th -13th September, 2013. Nairobi, Kenya.
- 3) G.Gachara; **A.K. Nyamache;** G.J.B. Gnonlonfin; J. Harvey; J. Wainaina; I. Wanjuki, and R. Skilton. Post-harvest fungi diversity and aflatoxin contamination in stored maize in Eastern and Western Kenya. Oral presentation. 1st International One Health Central and Eastern Africa (OHCEA) Conference. 23rd- 27th September, 2013. Addis Ababa, Ethiopia.
- 4) G.Gachara; **A.K. Nyamache;** G.J.B. Gnonlonfin; J. Harvey; J. Wainaina; I. Wanjuki, and R. Skilton Occurrence and distribution of aflatoxin contamination in stored maize across three Agro-ecological zones in Kenya. 3rd Kenya International Lung Health Conference. 2nd- 5th October, 2013. Nairobi, Kenya.
- 5) G.Gachara; **A.K. Nyamache,** G.J.B. Gnonlonfin; J. Harvey; J. Wainaina, R. Skilton . Aflatoxins threat to Kenya Maize consumptions, case studies of selected Kenyan counties study. 4th Biennial NMK conference 6th - 8th Nov 2013, Tanzania
- 6) **Nyamache A.K,** Z. Nganga, A. Muigai, S.A. Khamadi: High prevalence of primary Enfuvirtide (ENF) resistance-associated mutations in HIV-1-infected patients in Nairobi. *Submitted for ICASA conference 2013 Cape Town SA.*
- 7) **Nyamache A.K,** A. Muigai, S.A. Khamadi: Phylogenetic analysis of the envelope HIV-1 type 1 isolates among Kenyan cohort. Oral: The 2nd Medical and veterinary virus Research in Kenya (MVVRK) symposium. Panafic Hotel, Nairobi Kenya
- 8) **Nyamache A.K,** Z. Nganga, A. Muigai, S.A. Khamadi: HIV-1 co-receptor tropism in Nairobi cohort and its implication to antiretroviral therapy in Kenya: Oral Abstract No 1661 16th International AIDS and STDs Conference, 4-8th December 2011, Addis Ababa Ethiopia.

- 9) **Nyamache A.K**, Z. Nganga, A. Muigai, S.A. Khamadi: HIV Type 1 Genetic Diversity in Nairobi cohort, its implications on vaccine design and drug resistance *abstract No. 056: ITROMID JKUAT, Nairobi, Kenya 18-19th May 2011, conference.*
- 10) **Nyamache A.K**, Z. Nganga, A. Muigai, S.A. Khamadi: HIV-1 genetic diversity and naturally occurring polymorphisms in HIV-1 Kenyan isolates Integrase gene: Implications for integrase inhibitors 1st annual KEMRI scientific conference, KEMRI HQ Nairobi 9-11th Feb 2011.
- 11) **Nyamache A.K**, Z. Nganga, A. Muigai, S.A. Khamadi: HIV-1 genetic diversity and viral tropism among Kenyan individuals: 1st East Africa regional Scientific conference, Kenyatta University, Kenya August 2010
- 12) **Nyamache A.K**, Z. Nganga, A. Muigai, S.A. Khamadi :HIV-1 Genetic diversity and drug resistance among cohort of women in Nairobi, Kenya: International Microbicides-bridges in HIV prevention conference 21-25th May 2010 Pittsburgh, Pennsylvania, USA
- 13) **Nyamache A.K**, R. Waihenya, V. Okoth, R. Lihana, J. Mwangi, J. Muriuki, M. Kiptoo, N. Langat, J. Kinya, J. Khamala, F. Okoth, M. Mwau, S. Khamadi .Extent of drug resistance mutations among HIV-1 positive drug-naive patients in Kenya *abstract International HIV pediatrics workshop in 2009 Cape Town South Africa on July 17-18th 2009. International journal of reviews in antiviral therapy Vol 6 A-05 pg 105 (2009)*
- 14) **Nyamache A.K**, R. Waihenya, V. Okoth, R. Lihana, J. Mwangi, J. Muriuki, M. Kiptoo, N. Langat, J. Kinya, J. Khamala, F. Okoth, M. Mwau, S. Khamadi. Extent of drug resistance mutations among HIV-1 positive drug-naive patients in Kenya *abstract No. CDC 0057, Journal of international AIDS 2009, International AIDS HIV pathogenicity, prevention and treatment conference 2009 Cape Town South Africa on July 19-22 2009*
- 15) **Nyamache A.K**, Waihenya R, Khamadi S.A. Primary genotypic drug resistance mutations among selected HIV-1 positive drug-naive populations of Kenya *presented and published at inaugural Institute of tropical medicine and infectious diseases post graduate conference 28-29th May 2009 at Jomo Kenyatta University of Agricultural and Technology*
- 16) **Nyamache A.K**, Waihenya R, Khamadi S.A. HIV genetic diversity among drug naïve populations of Nairobi Kenya International AIDS Vaccine conference Oct 19-23 in Paris Viral Diversity P20-01,pg 269 2009
- 17) **Nyamache A.K**, Waihenya R, Khamadi S.A. HIV Drug resistance, threats to management to management of HIV patients, Kenyan urban, 8th International Conference on Urban Health (ICUH 18-23rd Oct, 2009. KICC Nairobi Kenya.
- 18) **Nyamache A.K**, Waihenya R, Khamadi S.A. HIV-1 genetic diversity among drug naïve populations of Nairobi, in Kenya, *ISCB-Africa ASBCB Joint Conference on Bioinformatics of Infectious Diseases at Bamako International Conference Centre, University of Bamako Medical School, Bamako, Mali. 30 Nov- 2 Dec 2009.*
- 19) **Nyamache A.K**, Waihenya R, Khamadi S.A. Primary genotypic drug resistance mutations among selected HIV-1 positive drug experienced populations of Kenya. *10th annual symposium on antiviral drug resistance SADR Target mechanism Richmond Virginia USA*
- 20) **Nyamache A.K**. & H. Boga, A comparative study of the efficacy of generics and original of Norfloxacin against *Escherichia coli Presented and published at 3rd University faculty conference proceedings held on Nov 2007.*
- 21) **Nyamache A.K**, P. Ochola; Isolation and antimicrobial susceptibility patterns of pathogenic *Escherichia coli* causing UTI. *Presented & published on at 2nd university conference proceedings held Nov 25-26th Nov 2006 at Jomo Kenyatta University of agricultural and technology Kenya. ISBN no.9988-243-88*
- 22) **Nyamache A.K** Onyango W., Wasike. D & Matiru V.; A comparative evaluation on broth micro dilution, disc diffusion and agar dilution methods on antifungal susceptibility testing of plant extracts.
- 23) *Presented and published at 2nd university faculty conference proceedings held June13-14th 2006 at Jomo Kenyatta university of agricultural and technology ISBN no.8866-213-78*

7.1 PROFESSIONAL WORKSHOPS/CONFERENCES ATTENDED

- | | |
|--------------------------------|--|
| 7-8th /5/ 15 | WHO/TDR follow up workshop on grant application, scientific writing and public science communication workshop, KCB Karen, Nairobi, Kenya |
| 16-19/9/ 14 | WHO/TDR Manuscript and research grant writing workshop |
| 17-21/06/ 13 | First workshop on Mathematical modeling for science research and development, Kenyatta University |
| 18-19/10/12 | The 2 nd Medical and veterinary virus Research in Kenya (MVVRK) symposium. Panafric Hotel, Nairobi Kenya |
| 13-17/08/12 | Advanced genomics and bioinformatic workshop: Viral and bacterial metagenomics and next generation sequencing, ILRI, Nairobi Kenya |

Dr. Kebira CV

- 5/05-1/6/2012** AuthorAID–IFS Workshop on Scientific Writing at The African Academy of Sciences, Nairobi, Kenya, 28 May–1 June 2012
- 1--19/07/11** Project implementation, grant application and management soft skills workshop, University of Younde1 Cameroon
- 19/10/09** 2010 Scientific Strategic Plan Consultation on AIDS Vaccine, Paris France
- 19-23/10/09** International AIDS Vaccine conference in Paris
- 18-19th/10/09** Standardized Measurement of Neutralizing Antibodies to Advance HIV Vaccine Development, Workshop 18-19 October 2009 Paris France
- 21/07/09** Workshop on Scientific Writing *Publish or Perish* by Journal of the International AIDS Society, Cape Town South Africa
- 17-18/07/09** 1st International workshop on HIV pediatrics, Cape Town South Africa
- 22-26/06/09** 2nd Workshop on Pharmacogenomics & bioinformatics, Pharmacogenetics of Drug Metabolism, Nairobi, Kenya, University of Nairobi, Kenya, African institute of science and technology, Zimbabwe
- 4th-5th/05/09** Introductory course in Bioinformatics, CGRI/ ILRI Nairobi Kenya
- 26-27th/03/09** Science and technology-Europe Africa Project Workshop, European Union's 7th framework programme for Research, Hilton Hotel Nairobi Kenya
- 10th/02/09** Emergency First AIDS, training, St John Ambulance Nairobi
- 19th-24th/01/09** Principle of HIV research, application in today's research training course, University of Washington, Centre for HIV/AIDS research, Seattle USA & Centre for clinical research, Kenya Medical Research Institute KEMRI Headquarters Kenya
- 03/10/08** Use and application of QiaCube automated RNA/DNA extractions from viruses, bacteria, fungal, PBMCs, Plasma and body fluids. Division of Medical virology, University of Stellenbosch, Cape Town South Africa
- 5/09/08** HIV drug resistance and its implication in clinical practice University of Western Cape, Cape Town South Africa
- 22/08/08** Real Time PCR and its applications in diagnostic & research Division of Medical virology, University of Stellenbosch, Cape Town South Africa
- 19th-24th/01/09** Principle of HIV research, application in today's research Workshop by University of Washington, Centre for HIV/AIDS research, Seattle USA & Centre for clinical research, Kenya Medical Research Institute KEMRI Headquarters Kenya

7.2 ABSTRACTS, PAPER IN CONFERENCE PROCEEDINGS AND WORKSHOPS

1. Peter Koigi, Musa Otieno, Caroline Ngugi and Anthony **Kebira Nyamache**. Genotyping of HIV type 1 drug resistance among patients with immunological failure to first and second line antiretroviral therapy in Kenyan. The 3rd Medical and veterinary virus Research in Kenya (MVVRK) symposium 2014. Hilton Hotel, Nairobi Kenya.
2. G.Gachara; **A.K. Nyamache**; G.J.B. Gnonlonfin; J. Harvey; J. Wainaina; I. Wanjuki, and R. Skilton. Post-harvest fungi diversity and aflatoxin contamination in stored maize in Eastern and Western Kenya. Poster presentation. 19th International Scientific Conference, 11 -13th September, 2013. Nairobi, Kenya.
3. G.Gachara; **A.K. Nyamache**; G.J.B. Gnonlonfin; J. Harvey; J. Wainaina; I. Wanjuki, and R. Skilton. Post-harvest fungi diversity and aflatoxin contamination in stored maize in Eastern and Western Kenya. Oral presentation. 1st International One Health Central and Eastern Africa (OHCEA) Conference. 23rd- 27th September, 2013. Addis Ababa, Ethiopia.
4. G.Gachara; **A.K. Nyamache**; G.J.B. Gnonlonfin; J. Harvey; J. Wainaina; I. Wanjuki, and R. Skilton Occurrence and distribution of aflatoxin contamination in stored maize across three Agro-ecological zones in Kenya. 3rd Kenya International Lung Health Conference. 2- 5th October, 2013. Nairobi, Kenya.
5. G.Gachara; **A.K. Nyamache**, G.J.B. Gnonlonfin; J. Harvey; J. Wainaina, R. Skilton . Aflatoxins threat to Kenya Maize consumptions, case studies of selected Kenyan counties study. 4th Biennial NMK conference 6th - 8th Nov 2013, Tanzania
6. **Nyamache A.K.**, Z. Nganga, A. Muigai, S.A. Khamadi: High prevalence of primary Enfuvirtide (ENF) resistance-associated mutations in HIV-1-infected patients in Nairobi. *Submitted for ICASA conference 2013 Cape Town SA.*

7. **Nyamache A.K**, A. Muigai, S.A. Khamadi: Phylogenetic analysis of the envelope HIV-1 type 1 isolates among Kenyan cohort. Oral: The 2nd Medical and veterinary virus Research in Kenya (MVVRK) symposium. Panafric Hotel, Nairobi Kenya
8. **Nyamache A.K**, Z. Nganga, A. Muigai, S.A. Khamadi: HIV-1 co-receptor tropism in Nairobi cohort and its implication to antiretroviral therapy in Kenya: Oral Abstract No 1661 16th International AIDS and STDs Conference, 4-8th December 2011, Adisa Ababa Ethiopia.
9. **Nyamache A.K**, Z. Nganga, A. Muigai, S.A. Khamadi: HIV Type 1 Genetic Diversity in Nairobi cohort, its implications on vaccine design and drug resistance *abstract No. 056: ITROMID JKUAT*, Nairobi, Kenya 18-19th May 2011, conference.
10. **Nyamache A.K**, Z. Nganga, A. Muigai, S.A. Khamadi: HIV-1 genetic diversity and naturally occurring polymorphisms in HIV-1 Kenyan isolates Integrase gene: Implications for integrase inhibitors 1st annual KEMRI scientific conference, KEMRI HQ Nairobi 9-11th Feb 2011.
11. **Nyamache A.K**, Z. Nganga, A. Muigai, S.A. Khamadi: HIV-1 genetic diversity and viral tropism among Kenyan individuals: 1st East Africa regional Scientific conference, Kenyatta University, Kenya August 2010
12. **Nyamache A.K**, Z. Nganga, A. Muigai, S.A. Khamadi :HIV-1 Genetic diversity and drug resistance among cohort of women in Nairobi, Kenya: International Microbicides-bridges in HIV prevention conference 21-25th May 2010 Pittsburgh, Pennsylvania, USA
13. **Nyamache A.K**, R. Waihenya, V. Okoth, R. Lihana, J. Mwangi, J. Muruiki, M. Kiptoo, N. Langat, J. Kinya, J. Khamala, F. Okoth, M. Mwau, S. Khamadi .Extent of drug resistance mutations among HIV-1 positive drug-naive patients in Kenya *abstract International HIV pediatrics workshop in 2009 Cape Town South Africa on July 17-18th 2009. International journal of reviews in antiviral therapy Vol 6 A-05 pg 105 (2009)*
14. **Nyamache A.K**, R. Waihenya, V. Okoth, R. Lihana, J. Mwangi, J. Muruiki, M. Kiptoo, N. Langat, J. Kinya, J. Khamala, F. Okoth, M. Mwau, S. Khamadi. Extent of drug resistance mutations among HIV-1 positive drug-naive patients in Kenya *abstract No. CDC 0057, Journal of international AIDS 2009, International AIDS HIV pathogenicity, prevention and treatment conference 2009 Cape Town South Africa on July 19-22 2009*
15. **Nyamache A.K**, Waihenya R, Khamadi S.A. Primary genotypic drug resistance mutations among selected HIV-1 positive drug-naive populations of Kenya *presented and published at inaugural Institute of tropical medicine and infectious diseases post graduate conference 28-29th May 2009 at Jomo Kenyatta University of Agricultural and Technology*
16. **Nyamache A.K**, Waihenya R, Khamadi S.A. HIV genetic diversity among drug naïve populations of Nairobi Kenya International AIDS Vaccine conference Oct 19-23 in Paris Viral Diversity P20-01,pg 269 2009
17. **Nyamache A.K**, Waihenya R, Khamadi S.A. HIV Drug resistance, threats to management to management of HIV patients, Kenyan urban, 8th International Conference on Urban Health (ICUH 18-23rd Oct, 2009. KICC Nairobi Kenya.
18. **Nyamache A.K**, Waihenya R, Khamadi S.A. HIV-1 genetic diversity among drug naïve populations of Nairobi, in Kenya, *ISCB-Africa ASBCB Joint Conference on Bioinformatics of Infectious Diseases at Bamako International Conference Centre, University of Bamako Medical School, Bamako, Mali. 30 Nov- 2 Dec 2009.*
19. **Nyamache A.K**, Waihenya R, Khamadi S.A. Primary genotypic drug resistance mutations among selected HIV-1 positive drug experienced populations of Kenya. *10th annual symposium on antiviral drug resistance SADR Target mechanism Richmond Virginia USA*
20. **Nyamache A.K**. & H. Boga, A comparative study of the efficacy of generics and original of Norfloxacin against *Escherichia coli* Presented and published at 3rd University faculty conference proceedings held on Nov 2007.
21. **Nyamache A.K**, P. Ochola; Isolation and antimicrobial susceptibility patterns of pathogenic *Escherichia coli* causing UTI. Presented & published on at 2nd university conference proceedings held Nov 25-26th Nov 2006 at Jomo Kenyatta University of agricultural and technology Kenya. ISBN no.9988-243-88
22. **Nyamache A.K** Onyango W., Wasike. D & Matiru V.; A comparative evaluation on broth micro dilution, disc diffusion and agar dilution methods on antifungal susceptibility testing of plant extracts. Presented and published at 2nd university faculty conference proceedings held June13-14th 2006 at Jomo Kenyatta University of agricultural and technology ISBN no.8866-213-78

8.0 RESEARCH PUBLICATIONS

8.1 ARTICLES IN REFEREED JOURNALS-INTERNATIONAL JOURNALS

8.1 a) Authored

1. **Nyamache A.K**, S.A. Khamadi and M. O Oyaro. Genetic diversity, distribution and co-infections of Hepatitis B virus, Hepatitis C virus, and HIV-1 in Africa: A systemic review. *J. of Virology.in press*
2. **Nyamache A.K and F. Nindo**: Evolutionary history and phylodynamics of HIV-1 subtype A and its epidemics in Kenya. *In press*
3. **Nyamache AK**, A.W Muigai, SA Khamadi. Circulating Trends of non B HIV type 1 subtypes among Kenyan individuals. *Journal of AIDS Research and Human Retroviruses* 2013, 29(2): 400-403
4. **Nyamache A.K**, Muigai A.W, Khamadi S.A.: Profile of HIV-1 Co-Receptor Tropism among Kenyan patients from 2009 to 2010. *Journal of AIDS Research and Human Retroviruses*. 2013; 29, 8, 1105-1109
5. **Nyamache A.K**, A. Muigai, S.A. Khamadi: Phylogenetic analysis of the envelope HIV-1 type 1 isolates among Kenyan cohort. *African Journal of health and therapeutics* 2012; 1:4:1
6. **Nyamache A.K**, Anne. Muigai, Zipporah Nganga Samoel Ashimosi Khamadi: HIV-1 genetic diversity and naturally occurring polymorphisms in HIV-1 Kenyan isolates Integrase gene: Implications for integrase inhibitors: *Journal of AIDS Research and Human Retroviruses: Vol 28: 933-936. 2012*
7. **Nyamache K.A**, Waihenya, Ng'ang'a Z.W, Muigai A.W, Khamadi .A.S, Reverse Transcriptase Inhibitors Drug Resistance Mutations in Drug-Naive HIV Type 1 positive Kenyan Individuals: *East Africa Medical Journal* 2011; 88:4:261-265
8. **Nyamache A.K**: Evaluation of HIV-1 evolution of HIV-1 evolution and its role in development of antiretroviral drug resistance, in Nairobi Cohort. *2011 PhD thesis*
9. **Nyamache A.K**, A. Muigai, Z. Nganga, S.A. Khamadi: HIV-1 genetic diversity and naturally occurring polymorphisms in HIV-1 Kenyan isolates Integrase gene: Implications for integrase inhibitors: *African Journal of health sciences* 2011: Vol 19:30-4 (suppl) 1.011 2011
10. **Nyamache A.K** and S.A. Khamadi: HIV-1 drug resistance among untreated patients in Kenya: Current status. *Journal of Applied Bioscience* 2011; 8:Vol 43:2958-2966
11. **Nyamache A.K** P. Ochola R, Khamadi S.A isolation and antimicrobial susceptibility testing of *Escherichia coli* causing urinary tract infections. *J. Applied Bioscience*2009; 22:Vol 27:1320-1325,2009
12. **Nyamache K.A**, Waihenya R, Khamadi S.A. HIV genetic diversity among drug naïve populations of Nairobi Kenya *Journal of Retrovirology* 2009; 6 (Suppl 3):P371 doi:10.1186/1742-4690-6-S3-P371
13. **Anthony Kebira Nyamache**: Extent of drug resistance mutations among HIV-1 positive drug-naive populations: *2008 Msc thesis*

8.1 b) Co-authored

14. Esther Wanjiku Muitta , J. Muhoho, **A. K. Nyamache**, T. Were, Retrospective evaluation of pre cervical cancer symptom screening and management in Rift Valley Provincial General Hospital (Nakuru County) MAY 201, The *East and Central Africa Medical Journal. Under Review*
15. G.Gachara; **A.K. Nyamache**; G.J.B. Gnonlonfin; J. Harvey; J. Wainaina; I. Wanjuki, and R. Skilton. "Genetic diversity of *Aspergillus flavus* and occurrence of aflatoxin contamination in stored maize across three agro-ecological zones in Kenya." *Under review with Intern. J. of Food Microbiology.*
16. Lamech Mwapagha, Zipporah Ng'ang'a, Shem Mutuiri, James K Munyao, **A. K. Nyamache**. Barbara Miheso and Samoel Khamadi. Polymorphisms of fractalkine receptor CX3CR1 gene among HIV infected Kenyan individuals. *Journal AIDS Research and Therapy. Under review*
17. Mabeya SN, C Ngugi, **AK Nyamache**, R Lihana. Prevalence of HepatitisB virus infections among HIV infected individuals in Nairobi, Kenya *East African Medical Journal* 93 (6), 221-225
18. Maryanne Betsy Usagi, Gilbert Abura Odilla, John Muthini Maingi, Anthony Kebira. Isolation, Identification and Determination of the Prevalence of Mycobacterium tuberculosis Complex among People Living with HIV in Kisumu County, Kenya. *Science Journal of Public Health*. 2016: 4; 4: 359-365

19. Rachuonyo HO, Gatheri GW, Ogola PE, Arika WM, Wambani JR, Kamau DN, **AK Nyamache**. In vitro Antifungal activity of leaf extracts from Aloe secundiflora, Bulbine frutescens, Vernonia lasiopos and Tagetes minuta against Candida albicans. *J. Med Aromat Plants* 2016, 5:2
20. James Kinoti Njue, Alice Muchugi, **Anthony Kebira Nyamache**. The association between Khat (Catha edulis Fork) Chewing and HIV infection among people visiting HIV counseling and testing centres in Nyambene, Meru County in Kenya. *under Review*
21. Mutuiru S.P. M., H.L. Kutima , L.M. Mwapagha, J.K. Munyao, **A.K. Nyamache, I.Wanjiru S.A Khamadi**. RANTES gene polymorphism (-403G>A and 28C>C) associated with HIV-1 infections in Kenyan population. *Disease Markers* 2016
22. Wabale M Kilongosi, Valentine Budambula, Raphael **Lihana, Francis O. Musumba, A. K. Nyamache**, Nancy L.M. Budambula, Aabid A. Ahmed, Collins Ouma, and Tom Were. Hepatitis B Virus Sero-profiles and Genotypes in HIV-1 Infected and Uninfected Injection and Non-Injection Drug Users from Coastal Kenya. *BMC infectious diseases* 15 (1), 299
23. Jedidah Ndunge Moto, John Muthini Maingi, **A. K. Nyamache**. Prevalence of Tinea Capitis in school going children from Mathare, Informal Settlement in Nairobi, Kenya. *BMC Research notes review* 2015 8:274.
24. Paul Njenga Waithaka, J. Maingi, **A. K Nyamache**. Development of Predictors algorithm for Mortality, Drop Out and Immuno-virologic outcomes among HIV-1 infected Intravenous Drug Users receiving highly active antiretroviral therapy in Malindi, Kenya. *Scientific Journal of Microbiology (2014) 3(12) 118-125*
25. Peter Koigi, Musa Otieno, Caroline Ngugi and **A. K. Nyamache**. Genotyping of HIV type 1 drug resistance among patients with immunological failure to first and second line antiretroviral therapy in Kenyan subjects. *Journal BMC Res Notes. 2014;7(1):890*
26. Paul Njenga Waithaka, J. Maingi, **A. K Nyamache** Microbial contamination of environmental, food and treated water samples in Nakuru North Sub-county, Kenya *Intern. J. of Microbiology and Allied Sciences. 2014 Dec, 1(2):78-91*
27. Paul Njenga Waithaka, John Muthini Maingi, **A. K. Nyamache**. Physico-chemical and Salmonella isolates in community taps and river Kandutura in Nakuru North Sub-county, Kenya. Under review. *Intern. J. of Microbiology and Epidemiological Research, Nov 2014, 2(4), 29-37,*
28. Schifra Uwamungu, Florence Masaisa, Sarah Kaggia Njoki, **A. K. Nyamache**. Coagulation factors level in fresh frozen plasma in Rwanda. *East African Medical J. 91:3 2014*
29. Zackary Maingi and **A. K. Nyamache**. Seroprevalence of Cytomegalo Virus (CMV) among pregnant women in Thika, Kenya. *BMC. Research notes Journal* 2014, 7:794 doi:10.1186/1756-0500-7-794
30. Osborn Yamakhakha Khasabuli and **A. K. Nyamache**. Isolation, characterization and primary screening of soil actinomycetes from Kenyatta University arboretum grounds for antibacterial activities. *J. of Applied Biosciences. 2014 74:6072– 6079*
31. Caroline Nyawira Wahome, Paul Owuor Okemo and **A. K. Nyamache**. Microbial quality and Antibiotic Resistant Bacterial Pathogens Isolated from Groundwater Used by Residents of Ongata Rongai, Kajiado North County, Kenya. *Intern. J. Biological and Biochemical Sciences* 2014: 8: (1): 134-143 2014.
32. Omari Amuka, Paul Okemo, Alex Machocho, Paul Mbugua, Eliud NM Njagi, and **A.K Nyamache**. Part 1The Role of Phytomedicine in the Challenges of Emerging, Re-Emerging Diseases; and Pathogens Resistance to Antibiotics. *Intern. J. of Herbal medicine* 2013: 1(4)77-84
33. Omari Amuka, Paul Okemo, Alex Machocho, Paul Mbugua, Eliud NM Njagi, and **A.K Nyamache**. Part 2The Role of Phytomedicine in the Challenges of Emerging, Re-Emerging Diseases; and Pathogens Resistance to Antibiotics. *Intern. J. of Herbal medicine* 2013: 1 (4): 92-101
34. Omari Amuka, Paul Okemo, Alex Machocho, Paul Mbugua, Eliud NM Njagi, and **A.K Nyamache**. Part 3The Role of Phytomedicine in the Challenges of Emerging, Re-Emerging Diseases; and Pathogens Resistance to Antibiotics. *Intern. J. of Herbal medicine* 2013: 1 (4) 102-106
35. Erick M Bosire, **A.K Nyamache**, Michael M Gicheru, Raphael W Lihana, Vincent Okoth and Samoel A Khamadi. Population specific reference ranges of CD3, CD4 and CD8 lymphocyte subsets among healthy Kenyans. *AIDS Res Ther. 2013 :7;10(1):24.*
36. Beatrice Mukami Muriuki, Michael Muita Gicheru, Dorcas Wachira, **A. K. Nyamache** and Samoel Ashimosi Khamadi Prevalence of hepatitis B and C viral co-infections among HIV-1 infected individuals in Nairobi, Kenya. *BMC Research notes* 2013, 6:363 doi:10.1186/1756-0500-6-363

8.2 BOOKS

-
1. Extent of drug resistance mutations among HIV-1 positive drug-naive populations: Amazon Books
ISBN/ISSN 9783639242881

8.3 NETWORKING AND COLLABORATION WITH EXTERNAL ORGANIZATIONS

-
- 2008-date** Prof Susan Engelbrecht Division of Medical Virology, University of Stellenbosch South Africa
- 2008-date** Dr Samoel Ashimosi Khamadi, Centre for Virus research KEMRI
- 2011-date** DRUG PHAMACOGENOMIC GROUP: Dr. Ali Mbuli, University of Cameroun, Dr. Peter Chibueze, Mnadi University, Nigeria, Dr. Collet Dandara, University of Cape Town

8.4 RESEARCH GRANTS**a) As Co-investigator**

2012: NACOSTI 5th Competitive Research Grant Proposal for Women Scientists entitled “Determination of Fungi and factors associated with their growth on sun dried *Rastrineobola argentea* in Gucha south, Kisii County, Kenya”

b) As Lead Principle investigator

YEAR	SOURCE	COLLABORATORS	STUDY/PURPOSE
2013	Raman International fellowship: USD: 10,000		Genetic diversity and Temporal Trends of Hepatitis B, Hepatitis C and drug resistance in HIV-1 infected Intravenous Drug abusers in Mombasa, Kenya
2013	PRD –European Union: Euros 4500	Dr. Vincent Ali, Cameroun, Dr. Chibueze Nigeria	HIV pharmacogenomics study and impact on drug resistance
2010-2011	International Society of infectious diseases (ISID): Small Grant: Euros 6000		Evaluation of HIV evolution and its role in development of antiretroviral drug resistance.
2008-2011	HIV trust scholarship: USD: 17,500		Evaluation of HIV evolution and its role in development of antiretroviral drug resistance.

c) TRAVEL GRANTS

-
- 2014 Travel grant: WHO TDR Scientific & Grant Writing Workshop, Nairobi Kenya
- 2013 ICASA 2013 registration scholarship, Cape Town

Dr. Kebira CV

2012	AuthorAID–IFS scholarship attend a one week Authorship Workshop. Nairobi, Kenya
2011	Travel grant to Ethiopia to attend ICASA STDs conference in Ethiopia
2010	Forgaty scholarship, attend Principles of HIV research training, Nairobi, Kenya
2010	Travel grant to attend International Microbicides conference, Pittsburgh Pennsylvania USA
2009	Travel scholarship, Partners in HIV microbicides Research to attend Cape Town South Africa 1 st HIV peditrics workshop USD1000
2009	Travel grant to attend International AIDS Vaccine conference in Paris, France
2009	Travel grant to 10 th Travel grant to 10 th annual symposium on antiviral drug resistance Richmond Virginia USA

9.0 LOCAL/NATIONAL/REGIONAL/INTERNATIONAL RECOGNITION

a) Examiner/Evaluator at Undergraduate and Postgraduate level

- Internal Examiner and Board Member for examination of MSc thesis theses by Graduate School on recommendation from Department of Microbiology and the School of Pure and Applied Sciences (2002 – To date).
- Internal Examination of PhD and MSc Thesis appointed by Graduate School, for the Department of Medical Laboratory Sciences, School of Health Sciences, Kenyatta University.
- Kenyatta University Examination Board Member to various Kenyatta University Master and PhD thesis defence meetings.
- External Examiner of PhD/Msc thesis appointed by JKUAT Board of postgraduate for Medical Microbiology

B) REVIEWER FOR PROFESSIONAL JOURNALS AND INVITED MEMBER OF EDITORIAL BOARD

1. Editorial Board Member SM Journal of Hepatitis Research and Treatment 2015 to date
2. African Journal of Microbiology Research 2011 to date
3. International Journal of Medicine and Medical Sciences 2011 to date
4. Internal Journal of Microbiology and Research 2012 to date
5. African Journal of Biotechnology 2015 to date
6. BMC Complementary & Alternative Medicine 2015 to date
7. Elsevier; Asian Pacific Journal of Tropical Biomedicine 2012 to date
8. East Africa Medical Journal 2010 to date
9. BMC Research notes 2015 to date
10. Journal of AIDS Research and Human Retroviruses 2013 to date
11. BMC Case reports 2014 to date
12. JKUAT grant reviewer 2015 to date
13. JKUAT external examiner 2015 to date

C) Awards

- 2014: Recognized for an Extra Mile worker as Departmental Chair of Board of Postgraduate study Kenya University year 2014
- 2009: Best presenter postgraduate ITROMID conference

d) Appointment at National Level

- Technical Evaluation and Review committee member, Kenya Medical Technician and Technologist Board (KMTTB) 2013 to date

10. PROFESSIONAL MEMBERSHIP:

- Kenya Society of Microbiology
- International society of infectious diseases
- International society of AIDS No. 38729
- American society for Microbiology, No. 56588346
- JKUAT Bioinformatics club member
- International Society of Computer Biology (bioinformatics)
- Biafrica (HIV bioinformatics in Africa)
- World federation of scientists
- Association of Kenya Medical Laboratory Scientific Officers (AKMLSO)
- Registered Member Kenya Medical Technician and Technologist Board (KMTTB)

REFEREES

1. Dr John Muthini Maingi
Lecturer & Chairman, Dept of Microbiology
Kenyatta University P.o Box 43844 00100 Nairobi, Kenya
Mobile 0722880280 +254(020) 8710901-19
Email: maingijohn@gmail.com
2. Prof Anne Muigai Associate Professor of genetics
Dept of Botany JKUAT P.o Box 62000 Nairobi
Mobile 0722943670 +254(067) 52711
Email: awmuigai@yahoo.co.uk
3. Dr. Samoel Ashimosi Khamadi, S. Research scientist
Research Director, Kenya Medical Research Institute (KEMRI) Walter-Reed Project
Tanzania
P.o. box 54840 Nairobi Kenya,
Mobile +255753745267 or +254722807841
Email: skhamadi@kemri.org or skhamadi@gmail.com