

# CURRICULUM VITAE

## Moses Muia Masika

### PERSONAL DETAILS

Date of Birth: 7th Feb, 1983  
Nationality: Kenyan  
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### ACADEMIC BACKGROUND

- 2016 –2019** PhD (Infectious Diseases) - Ongoing  
*KAVI Institute of Clinical Research, University of Nairobi*  
*Co-supervised with the University of Helsinki, Finland*  
**Areas: Emerging viruses, viral serology, PCR, Next-generation sequencing, Bioinformatics, grantmanship, disease surveillance**
- 2012 –2014** MSc. Tropical & Infectious Diseases  
*University of Nairobi Institute of Tropical & Infectious Diseases (UNITID)*  
**Units: Epidemiology & Biostatistics, Research Methods, Tropical Paediatrics and Maternal Health, Social Science and Health, Health Systems Management, Molecular Biology, Parasitology, Entomology, Bacteriology, Virology Immunology, Pharmacology & Therapeutics, Tropical & Travel Medicine**
- 2012** Certificate in Global Health Leadership & Management  
*University of Nairobi & University of Washington (Online)*
- 2003 - 2008** Bachelor of Medicine & Bachelor of Surgery (MBChB)  
*University of Nairobi*
- 2002 - 2003** Certified Public Accounting (CPA) Part I & II  
Certificate in Computer Packages (MS Office & Pagemaker)  
*Starehe Technical Training Institute*
- 1998 – 2001** KCSE (Kenya Certificate of Secondary Education) Mean grade – A  
*Starehe Boys' Centre & School*
- 1989 - 1997** KCPE (Kenya Certificate of Primary Education) Mean grade – A  
*Kilungu Primary School, Kibwezi*

## PROFESSIONAL QUALIFICATIONS

2001 First Aid Trainer & Assessor  
*St. John Ambulance (K)*

2007 Basic Life Support Instructor  
*Resuscitation Council of Kenya*

## OTHER COURSES (SELECTED)

Oct 2018 **Good Clinical Laboratory Practice**  
*Whitehall Training*

Oct 2019 **Learning to teach**  
*Open University*

Feb 2017 **Bioinformatics for *Staphylococcus Aureus***  
*Kenya Medical Research Institute (KEMRI) & Sanger Institute*

Sep 2016 **Introduction to R programming for Statistical Analysis**  
*University of Nairobi & Washington State University*

2014-2015 **Structured Training for African Researchers**  
*Association of Commonwealth Universities*

2014 Apr **Business Acumen Training**  
*Lattice Consulting*

2013 **Global Health Courses**  
Monitoring & Evaluation Fundamentals, Human Resources for Health Basics, Fostering Change in Health Services, Logistics for Health Commodities, Gender and Sexual & Reproductive Health 101  
*Global eLearning Centre - John Hopkins Bloomberg School of Public Health*

2011 **Research Ethics Courses:**  
(Renewed in 2018) Biomedical Researcher Course; Good Clinical Practice Course; Social/Behavior Researcher Course;  
*CITI – Collaborative Institutional Training Initiative*

2010 **Advanced Life Support in Obstetrics (ALSO)**  
*Institute of Family Medicine*

2007 **Advanced Life Support Provider Course (ALS)**  
*Resuscitation Council of Kenya*

2006 **Peer Leadership Course**  
*Kenya AIDS Vaccine Initiative*

2005 **Basic Life Support Training (BLS)**  
*HealthFirst International*

2001 **Training of Trainers Course (T.O.T)**  
*St. John Ambulance (K)*

1998 **International Life-saver First Aid Course**  
*St. John Ambulance (K)*

## WORK EXPERIENCE

<b>Current</b> <i>(Since Sep 2014)</i>	<b>Tutorial Fellow</b> Department of Medical Microbiology, School of Medicine, <i>University of Nairobi</i>
<b>Since Sep 2018</b>	<b>Laboratory Manager</b> KAVI Institute of Clinical Research, University of Nairobi
<b>Apr – Sep 2017</b>	<b>Research Fellow</b>
<b>Mar – Apr 2018</b>	<i>Department of Virology, University of Helsinki, Finland</i>
<b>2014</b> <i>(Jun - Aug)</i>	<b>County Epidemiologist</b> <i>Makueni County Health Services Department</i>
<b>2010 - 2014:</b>	<b>Medical Officer – Busia Region</b> <i>USAID-AMPATH,</i>
<b>Feb - Aug 2010:</b>	<b>Medical Officer</b> <i>Rift Valley Provincial General Hospital; Nakuru</i>
<b>2009 – 2010</b>	<b>Medical Officer – Intern</b> <i>Rift Valley Provincial General Hospital; Nakuru</i>

## PART TIME TASKS

<b>2001 to date</b>	<b>Trainer: First Aid, Life Support, Occupational Safety &amp; Health</b> <i>Trained many institutions including – Government ministries, Kenya Police, Kenya Army, British Army Training Unit, Kenya (BATUK), NGOs, Schools, Colleges, Universities, Hospitals, Oil Companies, Banks, Factories, Horticultural Farms, Hotels, Airlines, Churches and the public</i>
<b>2007 to date</b>	<b>Director</b> <i>Emergency Response Trainers Limited, Nairobi</i>
<b>2010</b>	<b>HIV/AIDS Training:</b> <i>Training of Health care providers on HIV/AIDS under Ministry of Health, Walter-Reed Program &amp; APHIA II</i>

## VOLUNTARY SERVICE

<b>1998 - 2009</b>	<i>A Volunteer (member) St. John Ambulance Brigade (K)</i>
<b>1999 (Apr)</b>	<i>Kwitu Medical Clinic – Kinyambu, Makueni County</i>
<b>1999 (Aug)</b>	<i>Nairobi Hospital</i>
<b>2000 (Apr)</b>	<i>Starehe Boys’ Centre - Mombasa “Camp Doctor” – First Aider</i>
<b>2003 (Jul-Aug)</b>	<i>SOS Children’s Villages, Nairobi</i>
<b>2004 to date</b>	<i>Attended numerous medical camps in various parts Kenya</i>

## PUBLICATIONS

1. 2019: Forbes KM, Webala PW, Jaaskelainen AJ, Abdurahman S, Ogola J, **Masika MM**, Kivisto I, Alburkat H, Plyusnin I, Levanov L, Korhonen EM, Huhtamo E, Mwaengo D, Smura T, Mirazimi A, Anzala O, Vapalahti O, Sironen T. Bombali Virus in Mops condylurus Bat, Kenya. *Emerging Infectious Diseases*. 2019;25(5).
2. 2019: Wangai FK, Masika MM, Lule GN, Karari EM, Maritim MC, Jaoko WG, Museve B, Kuria A; Bridging antimicrobial resistance knowledge gaps: The East African perspective on a global problem; *PLOS One* Feb 2019, <https://doi.org/10.1371/journal.pone.0212131>
3. 2018: Ommeh S, Zhang W, Zohaib A, Chen J, Zhang H, Hu B, Ge XY, Yang XL, **Masika M**, Obanda V, Luo Y, Li S, Waruhiu C, Li B, Zhu Y, Ouma D, Odendo V, Wang L, Anderson D, Lichoti J, Mungube E, Gakuya F, Zhou P, Ngeiywa K, Yan B, Agwanda B, Shi Z; Genetic Evidence of Middle East Respiratory Syndrome Coronavirus (MERS-Cov) and Widespread Seroprevalence among Camels in Kenya.; *Virol Sin*. 2018 Dec;33(6):484-492. doi: 10.1007/s12250-018-0076-4. Epub Dec 2018
4. 2018: Vaisanen E, Mohanraj U, Kinnunen PM, Jokelainen P, Al-Hello H, Barakat AM, Sadeghi M, Jalilian FA, Majlesi A, **Masika M**, Mwaengo D, Anzala O, Delwart E, Vapalahti O, Hedman K, Soderlund-Venermo M. Global Distribution of Human Protoparvoviruses. *Emerging Infectious Diseases*. 2018;24(7):1292-9.
5. 2018: Nyirakanani C, Chibvongodze R, Habtu M, **Masika M**, Mukoko D, Njunwa KJ. Prevalence and risk factors of asymptomatic malaria among underfive children in Huye District, Southern Rwanda. *Tanzania Journal of Health Research*. 2018;20(1).
6. 2018: Gitau W, **Masika M**, Musyoki M, Museve B, Mutwiri T. Antimicrobial susceptibility pattern of Staphylococcus aureus isolates from clinical specimens at Kenyatta National Hospital. *BMC Research Notes*. 2018;11:226.
7. 2017: Nyirakanani C, Chibvongodze R, Kariuki L, Habtu M, **Masika M**, Mukoko D, Njunwa KJ. Characterization of malaria vectors in Huye District, Southern Rwanda. *Tanzania Journal of Health Research*. 2017;19(3).
8. 2017: **Masika M**, Wachihi C, Kitsao R, Muriuki F, Kimani J. Hypertension and obesity among HIV patients in a care programme in Nairobi. *East African Medical Journal*. 2017;94(3):168-73.
9. 2016: Ondari JN, **Masika MM**, Ombachi RB, Ating'a JE. Unblinded randomized control trial on prophylactic antibiotic use in gustilo II open tibia fractures at Kenyatta National Hospital, Kenya. *Injury*. 2016;47(10):2288-93.
10. 2016: **Masika MM**, Cheserem LK. Kenyatta National Hospital Antimicrobial Susceptibility Report 2014-2016. Kenyatta National Hospital, 2016.
11. 2015: **Masika MM**, Ogembo JG, Chabeda SV, Wamai RG, Mugo N. Knowledge on HPV Vaccine and Cervical Cancer Facilitates Vaccine Acceptability among School Teachers in Kitui County, Kenya. *PloS one*. 2015;10(8):e0135563.
12. 2015: **Masika MM**, Omondi G, Natembeya D, Mugane E, Bosire K, Kibwage I. Use of mobile learning technology among final year medical students in Kenya. *Pan African Medical Journal*. 2015;21.

13. 2014: **Masika MM**. A Teachers' Perspective of School-based Human Papillomavirus Vaccination of Girls in Kitui County: Knowledge, Acceptability, Facilitators, Barriers & Opportunities (Thesis): University of Nairobi; 2014.
14. 2009: **Gituma A, Masika M, Muchangi E, Nyagah L, Otieno V, Irimu G**, et al. Access, sources and value of new medical information: views of final year medical students at the University of Nairobi. *Tropical Medicine & International Health*. 2009;14(1):118-22.
15. 2006: **Obonyo N, Cheroigin K, Kariuki M, Sumuni K, Lang'at O, Njogu B, Masika M, Patel N**. The Effects of MÛGÛKA (*Catha edulis vahl*) on the Behaviour of Rats. *Nairobi Journal of Medicine*. 2006.

### GRANTS & PROJECTS

1. Emerging and reemerging Viral Infections in Nairobi, Kenya (2019 – 2021); funded by EDCTP, € 150, 000; Role: Principal Investigator
2. Preparedness for emerging zoonotic infections in Kenya (2018 – 2022); funded by Finnish Academy of Sciences, PI – Prof. Olli Vapalahti (University of Helsinki); € 600, 000; Role: Investigator
3. Combating Antibiotic Resistance using Guidelines and Enhanced Stewardship in Kenya: An Implementation Science Approach; funded by National Research Fund (Kenya); 2018 – 2021; KES. 11,000,000; PI: Dr. Jesse Gitaka (Mount Kenya University); Role: Investigator
4. Colonization and Transmission Routes for Multi drug-resistant Bacteria in Neonates at the Newborn Unit, Kenyatta National Hospital, Nairobi, Kenya (2018-2019); Sub-award by Goethe University-Frankfurt, Germany; €17,000; Role: Co-Principal Investigator
5. Centre for International Mobility (CIMO) Research Fellowship at the University of Helsinki (2017); Funded by CIMO (Finland); € 9,000; Role: Research Fellow

### MASS MEDIA

- 2014 (Apr)** KTN - Morning Express - Malaria Prevention and control
- 2007 (Nov)** NTV *This Morning Show* – Home Safety
- 2006 (Dec)** Hope FM Radio – Road safety & First Aid Tips in the Holiday Season
- 2005 (Jun)** Citizen TV – First Aid for Fractures

### REVIEWERSHIPS (I have done peer reviews for the following journals)

- Since 2015** PLoS One
- Since 2016** BMC Public Health
- 2016** Polish Journal of Microbiology
- 2017** SAGE

## STUDENT SUPERVISIONS

- Completed**
1. *Herbert Chitere (MSc. Tropical & Infectious Diseases, UoN 2018)* - Klebsiella pneumoniae Resistance Trend at Kenyatta National Hospital ICU from September 2013 - August 2017
  2. *Dr. Abdikadir Aden (MSc. Tropical & Infectious Diseases, UoN 2018)* – Assessment of Knowledge, attitudes and practices on TB and TB prevention among healthcare workers at thika Level 5 Hospital
  3. *Chantal Nyirakanani (MSc. Medical Microbiology, UoN, 2016)*  
Prevalence of Malaria parasite infection and vector abundance in Huye District in Southern Rwanda
  4. *Wilfred Gitau (BSc. Microbiology, KeMU 2017)*  
Antimicrobial Susceptibility pattern for Staphylococcus aureus isolated from pus specimens at Kenyatta National Hospital
  5. *Moses Victor Musyoki (BSc. Medical Laboratory Sciences, JKUAT, 2017)*  
Antimicrobial Susceptibility Pattern of Acinetobacter Isolates from Kenyatta National Hospital
- Ongoing**
1. *Leonard Ochieng (MSc. Medical Microbiology, UoN)* - Bacteriospermia among Patients Testing for Infertility at the Department of Obstetrics and Gynaecology, University of Nairobi
  2. *Bramuel Kisuya (MSc Medical Microbiology, UoN)* - Seroprevalence of Zika Virus in Selected Regions in Kenya
  3. *Fabrice Bahizire (MSc Medical Microbiology, UoN)* - Seroprevalence and risk factors for Dengue among pregnant women in Rural South Kivu, Eastern Democratic Republic of Congo

## CONFERENCE PRESENTATIONS & POSTERS

1. *Dengue 2 virus among febrile patients in Kenya; Moses Masika, Essi M. Korhonen, Teemu Smura, Ruut Uusitalo, Dufton Mwaengo, Anne Jääskeläinen, Omu Anzala, Olli Vapalahti, Eili Huhtamo; Virology Days 2018, Gustavelung, Tuusula, Finland; March 2018*
2. *Exploring viral diversity – Metagenomic approach for virus detection and characterization; Teemu Smura, Ilja Plyusnin, Moses Masika, Eili Huhtamo, Essi Korhonen, Kirsi Aaltonen, Suvi Kuivanen, Salla-Mari Järvinen, Hussein Alburkat, Anu Jääskeläinen, Anne Jääskeläinen, Anita Huovilainen, Tarja Sironen, Olli Vapalahti; Virology Days 2018, Gustavelund, Tuusula, Finland, March 2018*
3. *Viruses in mosquitoes in Southern and Coastal Kenya; Ruut Uusitalo, Essi Korhonen, C Lorna Culverwell, Moses Masika, Dufton Mwaengo, Omu Anzala, Olli Vapalahti, Eili Huhtamo; Virology Days 2018, Gustavelung, Tuusula, Finland, March 2018*
4. *Arboviruses in Kenya: studies on febrile patient samples and mosquitoes; Korhonen E, Masika M, Culverwell L, Jääskeläinen A, Uusitalo R, Mwaengo D, Anzala O, Vapalahti O, Huhtamo E; 20th European Society for Clinical Virology annual meeting; Stresa, Italy, Sep 2017*



5. *Dynamics and Disease Burden of Zoonotic and Arboviral infections in Kenya*; **Masika MM**, Mwaengo DM, Webala P, Forbes K, Anzala O, Vapalahti O; Collaborative workshop on HIV and STI Training and Research, Nairobi, Kenya, Jan 2016
6. *Global Distribution of Protospoviruses*, E. Väisänen, Y. Fu, U. Mohanraj, P.M. Kinnunen, P. Jokelainen, A.M. Barakat, H. Al-Hello, M. Sadeghi, F. Azizi Jalilian, A. Majlesi, M. Masika, D. Mwaengo, O. Anzala, A. Keinonen, S. Pitkänen, S. Koskenmies, O. Vapalahti, K. Hedman, M. Söderlund-Venermo; 20th European Society for Clinical Virology annual meeting; Stresa, Italy, Sep 2017
7. *Arboviruses in Kenya*, **Moses Masika**, Essi Korhonen, Lorna Culverwell, Olli Vapalahti, Eili Huhtamo; Virology Days, Jyväskylä, Finland; Mar 2017
8. *Hypertension and obesity among HIV patients in a care programme in Nairobi: A case for intergration of care*; **M Masika**, C Wachuhi, F Muriuki, J Kimani; 15th European AIDS Clinical Society (EACS) Conference; Barcelona, Spain; Oct 2015
9. *A Teachers' Perspective of School-based Human Papillomavirus Vaccination of Girls in Kitui County: Knowledge, Acceptability, Facilitators, Barriers & Opportunities*; 10th Annual African Vaccinology Course, **Masika MM**, Ogembo JG, Mugo NR; Cape Town, South Africa, Nov 2014
10. *Devolution of Healthcare in Kenya: Challenges and Opportunities*; **Masika MM**; European Clinical Research Course (ECReCo), Aix-en-Provence, France, Sep 2013

#### SELECT CONFERENCES, WORKSHOPS & SEMINARS ATTENDED

- |                 |   |
|-----------------|---|
| <b>Mar 2018</b> | Virology days; Venue: Gustavelund, Tuusula, Finland   |
| <b>Sep 2016</b> | 6 <sup>th</sup> Infection Control Africa Network Congress<br>Venue: Johannesburg, South Africa                          |
| <b>Jan 2016</b> | Collaborative workshop on HIV and STI Training and Research<br>Venue: Nairobi, Kenya                                    |
| <b>Oct 2015</b> | 15 <sup>th</sup> European AIDS Clinical Society (EACS) Conference<br>Venue: Barcelona, Spain                            |
| <b>Nov 2014</b> | 10 <sup>th</sup> Annual African Vaccinology Course<br>Venue: Cape Town, South Africa                                    |
| <b>May 2014</b> | Statistical Package for Social Sciences (SPSS) Training Workshop<br>Venue: Kenyatta National Hospital, Nairobi          |
| <b>Sep 2013</b> | Advanced HIV Course (AHIVCo)<br>European Clinical Research Course (ECReCo)<br>Venue: Aix-en-Provence, France            |
| <b>Sep 2011</b> | Workshop on Interpretation of Digital Xrays by AMPATH<br>Venue: Radiology Dept, Moi Teaching & Referral Hospital (MTRH) |
| <b>Sep 2011</b> | Seminar on Systematic Reviews by AMPATH Research Department<br>Venue: AMPATH Centre, MTRH. Eldoret                      |
| <b>Aug 2010</b> | Workshop on Antiretroviral therapy by AMPATH/ NASCOP<br>Venue: AMPATH Centre, MTRH. Eldoret                             |

- Apr 2010** A workshop on Prevention of Mother to Child Transmission of HIV/AIDS (PMTCT) by NASCOP. *Venue: Nakuru, Kenya*
- Dec 2008** A workshop on Gender & HIV/AIDS by International AIDS Vaccine Initiative  
*Venue: Nairobi, Kenya.*
- Aug 2008** A conference on Advances in Prevention & Management of Cardiovascular Diseases.  
*Venue: Nairobi, Kenya*
- May 2008** 24th Annual Scientific Conference by The Kenya Cardiac Society  
*Venue: Nairobi, Kenya*
- Dec 2007** A conference on Infectious Diseases in Africa  
*Venue: Makerere University, Kampala, Uganda.*
- Dec 2007** A conference on The role of future healthcare professionals in community-based AIDS control.  
*Venue: National University of Rwanda, Butare, Rwanda.*
- Oct 2007** International Students' Scientific Conference: Challenges in Reproductive & Child Health in sub-Saharan Africa. *Venue: Dar es Salaam, Tanzania.*

#### **SOCIAL & PROFESSIONAL RESPONSIBILITIES**

- 2018** Member, *Technical Working Group on Antimicrobial Stewardship, Ministry of Health*
- 2016– Current** Member, *Technical Working Group on Neglected Tropical Disease Medicines*
- 2016 – Current** Member; *Medicines and Therapeutics Committee, Kenyatta National Hospital & Antimicrobial Stewardship Sub-committee*
- 2015 – 2017** Founding Chairman; *Kilungu Primary School Alumni Association, KiALA*
- 2011 – 2014** Deputy National Treasurer;  
*Kenya Medical practitioners, Dentists & Pharmacists' Union*
- 2010 to date** Member; *Kenya Medical Association (KMA)*
- 2010 to date:** Member; *Professional Trainers' Association of Kenya (PTAK)*
- 2010** Vice-chairperson; *Hospital Blood Transfusion Committee  
Rift Valley Provincial General Hospital, NAKURU*
- 2007** President ; *Federation of Eastern Africa Medical Students Associations*
- 2006 – 2007** External Affairs Secretary; *Association of Medical Students of the University of Nairobi*
- 2005 – 2007** Corp Staff Officer; *Training & Development  
St. John Ambulance Brigade, Nairobi West Corp*
- 1998 – 2001** Presidential Award Scheme –Bronze Medal; *Starehe Boys' Centre*



## PROFESSIONAL AFFILIATIONS

Member, Kenya Medical Association

Member, Infection Control Africa Network

Member, European Society of Clinical Microbiology and Infectious Diseases

## REFERENCES:

### **Prof. Walter Jaoko**

Chairman, Department of Medical Microbiology, School of Medicine,  
College of Health Sciences  
University of Nairobi  
P.O. Box 19676, 00202 KNH  
NAIROBI  
[wjaoko@uonbi.ac.ke](mailto:wjaoko@uonbi.ac.ke)

### **Prof. Olli Vapalahti**

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### **Prof. Omu Anzala**

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