

## Academic Staff Profile Template

### 1.1 Personal Profile

#### 1.1.1 Personal Details

**Name:** Dr. Nelson Chengo Menza, PhD

**Department:** Medical Laboratory Science

**Designation:** Lecturer

**Email:** [menza.nelson@ku.ac.ke](mailto:menza.nelson@ku.ac.ke)

**Areas of Specialization:** Medical Microbiology: Medical Mycology.

**Research Interests:** Medical Bacteriology and Mycology; areas in pathogens identification, antimicrobial susceptibility profiles.

**Google Scholar:**

<https://scholar.google.com/citations?user=jTV4ZD8AAAAJ&hl=en>

**ORCID iD:** <https://orcid.org/0000-0002-6591-0094>



#### 1.1.2 Academic & Professional Qualifications

Ph. D (Medical Mycology) Kenyatta University (2016)

MSc. (Infectious Diseases) Kenyatta University (2011)

BSc. (Medical Laboratory Science) Kenyatta University (2007) KCSE-  
Galana High School, Malindi (2002)

#### 1.1.3 Employment History

2016 to date, Kenyatta University – Lecturer

2013 – 2016, Kenyatta University – Tutorial Fellow

2012 -2013, Mount Kenya University, Assistant Lecturer

2011-2012, Kenyatta University, Part time Lecturer

2009-2011, Kenyatta University, Teaching Assistant

2008 -2009, Kenya School of Medical Science and Technology College, Thika, Lecturer

2008-2009, Medical Diagnostic laboratory, Central Memorial Hospital Thika, Medical  
Laboratory Technologist.

## 1.2 Publications

### 1.2.1 Refereed Journals

Godani, S., Chengo, M. and Muturi, M. (2023) Zoonotic Pathogens Detected in Ticks in Kenyan Game Reserves. *Advances in Entomology*, 11, 1-9. doi: 10.4236/ae.2023.111001.

Joseph GM, Maina MJK, David MN, Nelson MC. Toxicity of *Toddalia asiatica* is associated with microcephaly and hypochondroplasia in mice. *J Phytopharmacol* 2022; 11(6):386-390. doi: 10.31254/phyto.2022.11602.

John K. Njenga a\*, Scholastica G. Mathenge, **Nelson C. Menza** and Jessie N. Githanga. (2022) Hematological Profiles of Eligible Blood Donors at Kenyatta National Hospital, Kenya, *International Blood Research & Reviews*, 13(2): 24-31, Article no. IBRR.84365, ISSN: 2321-7219.

Ambala, P., Fatima, H., Samson, M., Gachara, G., **Nelson, M.**, Lindsey, M. S., Megan, V., Susan, M., Marc, V., Dawn, Z., and Joseph, K. (2022) Absence of molecular evidence of filovirus circulating in bats and rodents in Laikipia North sub-County, Kenya: a cross sectional study, *Pan African Medical Journal-One Health*. 7:34.

Nganga M. W, Musyoki A. M., **Menza N. C.**, Bundi S., Kiarie J. and Mbugua M. (2022) Piloting of locally developed dried tube specimen panels for Xpert®MTB/RIF assay proficiency testing in Nairobi, Kenya. *East African Medical Journal* Vol. 99 No. 1. eISSN: 0012-835X.

Kamau WW, Sang R, Ogola EO, Rotich G, Getugi C, Agha SB, **Menza N.**.....Tchouassi DP. 2022 Survival rate, blood feeding habits and sibling species composition of *Aedes simpsoni complex*: Implications for arbovirus transmission risk in East Africa. *PLoS Negl Trop Dis* 16(1): e0010171. ISSN: 1935-2727.

Njenga, J. K., G. Mathenge, S., **C. Menza, N.**, & Githanga, J. N. 2022 Prevalence of Iron Deficiency and Anemia among Eligible Blood Donors at Kenyatta National Hospital, Kenya. *International Journal of Research and Reports in Hematology*, 5(1), 40-46. ISSN: 0925-5710

Bilan Sheikh Ali Nor, **Nelson Chengo Menza** and Abednego Moki Musyoki 2021 Multidrug-Resistant Shigellosis among Children Aged below Five Years with Diarrhea at Banadir Hospital in Mogadishu, Somalia. *Can J Infect Dis Med Microbiol*. 2021: 6630272. ISSN: 1712-9532 (print) 1918-1493 (web).

Mwambia TM\*, **Nelson M** and Scholastica M 2021 Risk Factors for Maternal Genitourinary Colonization with Group B *Streptococcus* at Pregnancy. *International Journal of Women's Health care and Gynecology*, 3:1. ISSN: 2694-4081

Evans Mwasiagi , Paul K. Sang , **Menza N. Chengo** 2021 Human Resource Management Challenges and Research Proposition in ISO 9001:2015 Certified Firms in Kenya Post Covid-19 Disease Outbreak *International Journal of Business & Management Studies*, 2:4. ISSN 2694-1430.

Musavini GK, Muturi M & **Menza N** 2020 Prevalence and Knowledge of Hepatitis B and Hepatitis

C Infections among Voluntary Blood Donors in Nairobi, Kenya. *Journal of Infectious Diseases Research*, 3(1): 66-77. ISSN: 2688-6537.

V Munyao, J Karisa, CM Munyao, M Ngari, **N Menza**, Norbert Peshu, Martin Rono, Charles Mbogo, Joseph Mwangangi **2020** Surveillance of Culicine Mosquitoes in Six Villages of Taita-Taveta County, Kenya, With Host Determinations From Blood-Fed Females. *Journal of Medical Entomology Online* ISSN: 1938-2928.

Karanja N. Esther<sup>1</sup>, **Menza C. Nelson<sup>2</sup>**, Kabiru W. Ephantus<sup>3</sup> **2019** Bacterial Agents Causing Food Poisoning Among Patients Attending Thika Level 5 Hospital, Kiambu County, Kenya." *Open Journal of Medical Microbiology*. Paper accepted. ID 2260358 ISSN 2165-3380.

Jackline Gakii, **Nelson Menza**, Winfreda Nyamota Maoga, **2019** Knowledge, attitude and perception of HIV, ART and PMTCT among HIV infected pregnant women in Narok Sub-county hospitals. *Global Journal of Health Sciences*, Vol 4, Issue 1, No.4, pp 44 – 54. ISSN 2519-0210.

Caroline J. Ngetsa<sup>1</sup>, Marc W. Heymann<sup>2</sup>, Alex Thiong'o<sup>1</sup>, Elizabeth Wahome<sup>1</sup>, John Mwambi<sup>1</sup>, Clara Karani<sup>1</sup>, **Nelson C. Menza<sup>3</sup>**, Grace Mwashigadi<sup>1</sup>, Margaret W. Muturi<sup>3</sup>, Susan M. Graham, Peter Mugo<sup>1</sup>, Eduard Sanders **2019** Rectal gonorrhoea and chlamydia among Men who have sex with Men in coastal Kenya Wellcome Open Research, 4:79 ISSN 2398-502X.

**Menza, C. Nelson\***, Muturi W. Margaret **2018** Occurrence of Aflatoxigenic *Aspergillus* Species in Peanut Varieties in Busia and Kisii Central Districts, Kenya *Open Journal of Medical Microbiology* 08(04):98-108 ISSN 2165-3380.

**Nelson C. Menza\***, Muturi W. Margaret, Kamau M. Lucy **2016** Oil Contents and Aflatoxin Levels in Peanuts Varieties Produced in Busia and Kisii Central Districts, Kenya *Tropical Medicine & Surgery*, 4:204. ISSN: 2329-9088.

**Menza N. \***, Muturi W. Margaret, Kamau M. Lucy **2015** Incidence, Types and Levels of Aflatoxin in Different Peanuts Varieties Produced in Busia and Kisii Central Districts, Kenya. *Open Journal of Medical Microbiology*, 2015, 5, 209-221. ISSN 2165-3380.

**Menza N.**, Wanyoike, W and Muturi, W. **2013** Prevalence of Vaginal Candidiasis and Determination of the Occurrence of *Candida* Species in Pregnant Women Attending the Antenatal Clinic of Thika District Hospital, Kenya. *Open Journal of Medical Microbiology*, 2013, 3, 264-272, ISSN 2165-3380.

**Menza N.**, Wanyoike, W and Muturi, W. **2013** Identification and Susceptibility Profile of Vaginal *Candida* Species to Antifungal Agents among Pregnant Women Attending the Antenatal Clinic of Thika District Hospital, Kenya. *Open Journal of Medical Microbiology*, 2013, 3, 239-247, ISSN 2165-3380.

### 1.3 Consultancy and community service

S/No.	Consultant (s)	Consulting Person/ Body/ Organization	Year	Title Consultancy Service	Payment (US\$)
1.	Marereni Secondary School	BOM member	2019 to date	Member	-
2.	External Reviewer	Kabarak University	2020 to date	Grants funding proposals	50 USD
3.	Board of Management (BOM)	East Park Academy, Machakos County	May, 2019 to Dec. 2020	Chairman	-

### 1.4 Affiliation to Professional Bodies

Registered and to date licensed Member, Kenya Medical Laboratory Technologist and Technicians Board (KMLTTB).

### 1.5 External Examination (if any)

Effective May, 2023, appointed External Examiner for Department of Biomedical Sciences in the School of Medicine and Health sciences, Kabarak University for 4 years.

In November, 2022 Appointment as a Thesis External Examiner for Celestine Kanini Kyembeni (MSc) - MMLS/2018/27108 in Mount Kenya University, Department of Medical Laboratory Sciences.

In November, 2022 Appointment as a Thesis External Examiner for Joshua K. Too Thesis (MSc) - in the School of Biomedical Sciences, Jomo Kenyatta University of Science and Technology.

February, 2022 Appointment as a Thesis External Examiner for Everlyne Macharia-MMLS/000202/113/23605 in Mount Kenya University, Department of Medical Laboratory Sciences.

March, 2021, Proposal External Reviewer and Panelist, PhD proposal for Racheal Nyaguthie Githioni, PHDMLS/2018/37488 in Mount Kenya University, Department of Medical Laboratory Sciences.

### 1.6 Research funding

Muturi W. Margaret, Gachara, George, Musyoki, Abednego, Menza Nelson, Ndungu Harison and Ontwenka Lameck **2021** Synbio project on development of silico for identifying Vibrio cholerae mRNA aptamer libraries for diagnosis of KShs.3, 000, 000. Multidisciplinary Research Grant of KShs. 12,356,250 (Grant Number NRF/2/MMC/625).

Ambala Peris Auma Ayany (PhD student), Gachara George, Menza Nelson and Michael Kamau **2020** The National Research Fund (NRF) PhD Research grant ‘Determination of Molecular Characteristics of Filoviruses Circulating in Turkana and Laikipia Counties in Kenya’ of Ksh.

899,298.00 (Grant number NRF/PhD/02/68).

## **1.7 Supervision of Postgraduate Students**

### **1.7.1 Ongoing Supervision**

Njenga K. John, P97/27900/2019. Total Blood Volume, Iron Status and Hematological profiles of Whole Blood Donors at Kenyatta National Hospital, Nairobi County, Kenya.

Lilly Alice Murugi Njue, P97/20977/2020. Assessment of the quality of selected Immunological and Immunohaematological tests in Clinical Laboratories in Kiambu County, Kenya.

Ongong'a Royronald Ochieng, P97/28771/2019. Genetic polymorphism of ion channel transient receptor potential membrane melastatin and risk of benign prostate hyperplasia among men in Kisumu County.

Lameck O. Nyangena, P97/28139/2018 Molecular Characteristics and Aptmer development for *Vibrio cholerae* detection in water reservoirs in Kenya during endemic periods.

Fred Kipsang, P150/CTY/PT/34014/2017. Occurrence and molecular characteristics of oxacillinases in *Acinetobacter baumannii* from patients admitted at Moi Teaching and Referral Hospital, Kenya.

Winnie W. Kamau, P150/38587/2017. Genetic Diversity and Survival rate of *Aedes Stegomyia* in Kerio Valley and Rabai Arbovirus Ecologies in Kenya.

Salim Kobo, P150/CE/26196/2014. Determination of Tick borne pathogens, their genetic diversity in cattle in Taita Taveta County, Kenya.

Margaret Wairimu Nganga, P150/CTY/PT/26853/2018. Stability and Performance of Locally Developed Dried Tube Specimen Panel for Xpert Mtb/Rif Proficiency Testing At National Tuberculosis Reference Laboratory, Kenya.

Gabriel Miring'u Mwendu, P150/CTY/PT/37100/2017. Development of a Multiplex Polymerase Chain reaction for diagnosis of bacterial septicemia among children under five years in Kiambu County, Kenya.

Kuria Patrick Chege, R50/25865/2018. Stressors and coping strategies among Women Breast cancer survivors at Kenyatta National Hospital, Kenya.

Joseph Mwangi Gichuru, P154/CTY/PT/27834/2019. Teratogenic and toxicity effects of *Toddalia asiatica* and *Acacia polyacantha* in animal model.

Sarah Malinda Syengo, Reg. No: P154/26876/2019. Determination of Dyslipidemia and Cardiovascular Risk in HIV Positive Patients on HAART at Machakos Level V Hospital, Machakos County, Kenya. Data collection.

Duncan Ndegwa Njogu, P154/CTY/PT/28404/2019. Determination of Saliva and Blood Glucose Levels among Patients Attending KUTRRHK in Nairobi County, Kenya.

Veronica Wangechi Kariuki, P154/CTY/PT/34698/2016. Prevalence and Risk Factors for

Acquisition of Drug Resistant Tuberculosis among Sputum Smear Positive Patients Attending Selected Hospitals in Murang'a County, Kenya.

### 1.7.2 Successful Supervision

Peris Ambala Auma, P97/38398/2016. Molecular evidence of Filovirus circulating in bats and rodents in Laikipia North Sub-county, Kenya. Graduated in July, 2022.

Bilan Sheikh Ali Nor, P150f/37200/2016 *Shigella* serotype distribution, antibiotic susceptibility and risk factors for shigellosis among children presenting with diarrhea at Banadir Hospital in Mogadishu, Somalia. Graduated in July, 2022.

Caroline J. Ngetsa, P150/CE/25905/2014 Evaluation of Asymptomatic Rectal N. gonorrhoea and Chlamydia Trachomatis and recurrence after presumptive treatment among high Risk cohort at the Kenyan Coast. Graduated in December 2018.

Jackline Gakii, Q58/CTY/31417/2015 Predictors of Retention in care among human Immunodeficiency virus infected pregnant women in Narok County, Kenya. Graduated in December 2019

Musili Purity, P150/31030/2015 Prevalence of Bacteriuria and antibiotic sensitivity profile of bacterial isolates among sexually active non-pregnant women attending Thika level 5 Hospital, Kenya. Graduated in July, 2019.

Vanessa Ngami Munyao, P150/CE/28593/2015 *Cuculine* mosquito Species, Diversity Host feeding preferences and Insecticide status in Taita Taveta County, Coastal Kenya. Graduated in December, 2020.

Geoffrey Musavini Kwarula, P150/31031/2015 Prevalence and knowledge of Hepatitis and HCV infection among blood donors at RBTC- Nairobi City County, Kenya. Graduated in July, 2021.

Munene Tony Mwambia, P150/CE/25905/2014 Group B Streptococcus Prevalence, Antibiotic susceptibility and Risk Factors for colonization among Antenatal Women at Mbagathi Hospital, Nairobi City County, Kenya. Graduated in December, 2021.

### 1.8 Administrative Positions Held

1. From 19<sup>th</sup> September, 2020 to date, **Chairman**, Department of Medical Laboratory Sciences.
2. From 15<sup>th</sup> March to 15<sup>th</sup> June, 2019, seconded to Kenyatta University Hospital as the **Chief Medical Laboratory Technologist**.
3. From 18<sup>th</sup> November, 2019 to 16<sup>th</sup> December, 2019, **Acting Chairman**, Medical Laboratory Science department.
4. From 23<sup>rd</sup> April, 2019 to 14<sup>th</sup> June, 2019, **Acting Chairman**, Medical Laboratory Science department.
5. From March 2016 to September 2020, **Chairman, MLS Departmental Board of Postgraduate Studies**.
6. **Member**, Kenyatta University Senate Curriculum Rationalization Committee in the years 2016-2018.

7. From January, 2014 to December, 2016: **Website Coordinator**, Department of Medical Laboratory Science, Kenyatta University.
8. From January, 2012 –January, 2013: **Coordinator**, School of Health Sciences, Mount Kenya University, Mombasa Campus.
9. From 1<sup>st</sup> May 2008 up to August, 2009, **Exam Co-coordinator**, Kenya School of Medical Science and Technology, Thika.