

Academic Staff Profile Template

1.1 Personal Profile

1.1.1 Personal Details

Name: Dr. Nelson Chengo Menza, PhD Department: Medical Laboratory Science Designation: Senior Lecturer Email: menza.nelson@ku.ac.ke Areas of Specialization: Medical Microbiology: Medical Mycology. Research Interests: Mycoses, Mycotoxins, antimicrobial susceptibility profiles. Google Scholar: https://scholar.google.com/citations?user=jTV4ZD8AAAAJ&hl=en ORCID iD: https://orcid.org/0000-0002-6591-0094	
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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

September 2025 to date, Kenyatta University, Senior Lecturer

2016 to 2024, 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

Gabriel Miringu , Abednego Musyoki, Betty Muriithi, Ernest Wandera, Dan Waithiru, Erick Odoyo⁵, Hisashi Shoji, **Nelson Menza** and Yoshio Ichinose (2024). Development of two multiplex PCR assay for rapid detection of eleven Gram-negative bacteria in children with septicemia, *Tropical Medicine and Health*, 52:40.

Jackline Gakii, **Nelson Menza** and Winfreda Nyamota, (2024). Health System-Related Factors that Influence Retention in Care among HIV Infected Pregnant Women in Narok County, Kenya. *Journal of Health, Medicine and Nursing*, ISSN2520-4025(Online), Vol.10, Issue 2. No.5, pp 58-69.

Royronald Ochieng Ongong'a, **Nelson Menza**, Rodgers Norman Demba (2024). Association between transient receptor potential Melastatin genotypes and the prostate surface antigen levels in BPH patients, *Int J Res Med Sci.*; 12(5):1424-1429.

Njue, L. A. M., Muturi, M., Waithaka, S. K., **Menza, N.**, & Erolls, S. (2024). The clinicians' perceptions on quality of laboratory services and the status of laboratories in relation to personnel skill, competency and compliance in Kiambu county, Kenya, *East African Medical Journal* Vol. 101: 3.

Njue, L. A. M., Muturi, M., Waithaka, S. K., **Menza, N.**, & Nyamai, M. (2024). Quality of selected immunological and immunohematological tests in clinical laboratories in Kiambu County, Kenya. *East African Medical Journal*, 101(1), 6648-6658.

Lilian G. Njue, Iddah M. Ali, **Nelson C. Menza** (2024). Diagnostic Performance of Saliva Samples in Asymptomatic COVID-19 Infected Patients in Kakamega Kenya. *EAS J Parasitol Infect Dis*; Vol-6, Iss-1:1-7.

Ongong'a RO, **Menza N**, Demba RN. (2024). Assessment of electrolyte imbalance among benign prostate hyperplasia patients in Western Kenya..*Int J Res Med Sci* 2024; 12:37-43.

Mwangi Harrison Ndung'u, George Gachara, Lameck Ontweka, **Nelson Menza**, Abednego Musyoki and Margaret Muturi, (2023). Review of Rapid Diagnostic Methods for *Vibrio Cholerae* Detection in the Last Decade (2011-2022), *East African Health Research Journal*, 7:2.

Kipsang, F., Musyoki, A. and **Menza, N.** (2023). Risk Factors Associated with MDR and CR *Acinetobacter baumannii* Carriage among ICU Patients Hospitalized at MOI Teaching and Referral Hospital, Kenya. *Open Journal of Medical Microbiology*, 13, 263-275. doi: 10.4236/ojmm.2023.134021.

Kipsang, F., Munyiva, J., **Menza, N.** and Musyoki, A. (2023). Carbapenem-resistant *Acinetobacter baumannii* infections: Antimicrobial resistance patterns and risk factors for acquisition in a Kenyan intensive care unit. *IJID Regions* 9 (2023) 111–116.

Syengo, S. M., Mutai, B. K., **Menza, N. C.**, Mathenge, S. G. (2023). Lipid Profiles, Cardiovascular Disease Risk and Dyslipidemia in HIV Positive Patients on HAART at Machakos Level Five Hospital, Machakos County. *J Chem Edu Res Prac*, 7(2), 477-497.

Kamau WW, Sang R, Rotich G, Agha SB, **Menza N**, Torto B and Tchouassi DP (2023). Patterns of *Aedes aegypti* abundance, survival, human-blood feeding and relationship with dengue risk, Kenya. *Front. Trop. Dis.* 4:1113531. doi: 10.3389/ftd.2023.1113531.

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.

Mwangi JM, Maina MJK, David MN, **Nelson MC.** (2022). 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.

Njogu, D. N.; **Menza, N.**; Nyamai, M.; Nyamai, D. (2022). Saliva and Blood Glucose Parametric Analysis among Individuals Attending Kutrrh Hospital in Nairobi, Kenya. *East African Medical Journal*. 99 (12): p5413-5422. 10p

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.

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.

Munyao, V., 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. Esther¹, **Menza C. Nelson²**, Kabiru W. Ephantus³ **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 ¹, Marc W. Heymann², Alex Thiong'o¹, Elizabeth Wahome¹, John Mwambi ¹, Clara Karani¹, **Nelson C. Menza³**, Grace Mwashigadi¹, Margaret W. Muturi³, Susan M. Graham, Peter Mugol¹, 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.	Advisory Panel Member	Coral Plus Curriculum & Workforce Development Governance Model Organized by Coral MED Management Institute Inc.	June 2025 to June 2027	Member	12 US\$ per hour
2.	Galana Boys High School	BoM member	August 2025 to date	Chairman, Academic Committee	-
3.	Marereni Secondary School	BOM member	2019 to 2025	Member	-
4.	Marafa Boys Secondary School	BOM member	2019 to August 2025	Member	-
5.	External Reviewer	Kabarak University	2020 to date	Grants funding proposals	50 US\$
6.	Board of Management (BOM)	East Park Academy, Machakos County	May, 2019 to date	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 June, 2025 to 2029, appointed External Examiner for Department of Medical Laboratory Science in the School of Health Sciences, Karatina University for a period of 4 years.

In July 2024, Appointment as a Thesis External Examiner for Lawrence Ileri Jason (MSc.), MMLS/2022/46919, Mount Kenya University, Department of Medical Laboratory Sciences.

In July 2024, Appointment as a Thesis External Examiner for Milca Cherono (MSc.), MMLS/2022/49032, Mount Kenya University, Department of Medical Laboratory Sciences.

In July 2024, Appointment as a Thesis External Examiner for Charity Mutave Kimwele (MSc.), MMLS/2021/41118, Mount Kenya University, Department of Medical Laboratory Sciences.

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.

From October 2022 to 14th October 2025, Appointed to the editorial board of African Journal of Medical Biosciences (AJMBS), as Associate Editor in Chief.

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

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

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

Gabriel Miring’u Mwende, 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.

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

Lilly Alice Murugi Njue, P97/20977/2020. Assessment of the quality of selected Immunological and Immunohaematological tests in Clinical Laboratories in Kiambu County, Kenya. **Graduated in July, 2025.**

Alice Kamonya Mwendwa, P150/30670/2015. Reproductive Tract Bacterial Infections Among Women of Reproductive Age Attending Homabay County Teaching and Referral Hospital In Homabay County, Kenya. **Graduated in July, 2025.**

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. **Graduated in December, 2024.**

Njue Gatavi Lilian, P150/27770/18. Biochemical Markers Analysis for Sars-Cov-2 Infected Patients in Kakamega County, Kenya. **Graduated in December, 2024.**

Salim Kobo, P150/CE/26196/2014. Determination of Tick borne pathogens, their genetic diversity in cattle in Taita Taveta County, Kenya. **Graduated in July, 2024.**

Margaret Wairimu Nganga, P150/CTY/PT/26853/2018. Stability and Perfomance of Locally Developed Dried Tube Specimen Panel for Xpert Mtb/Rif Proficiency Testing at National Tuberculosis Reference Laboratory, Kenya. **Graduated in July, 2024.**

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. **Graduated in December, 2023.**

Kuria Patrick Chege, R50/25865/2018. Stressors and coping strategies among Women Breast cancer survivors at Kenyatta National Hospital, Kenya. **Graduated in December, 2023.**

Esther Nduta Karanja, Q58/31166/2015. Bacterial Causative Agents Of Food Poisoning And Associated Risk Factors Among Patients Attending Thika Level 5 Hospital In Kiambu County, Kenya. **Graduated in December, 2023.**

Sarah Malinda Syengo, Reg. No: P154/26876/2019. Dyslipidemia and Cardiovascular Risk in HIV Positive Patients on HAART at Machakos Level V Hospital, Machakos County, Kenya. **Graduated in December, 2023.**

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. **Graduated in July, 2023.**

Joseph Mwangi Gichuru, P154/CTY/PT/27834/2019. Teratogenic and toxicity effects of *Toddalia asiatica* and *Acacia polyacantha* in animal model. **Graduated in July, 2023.**

Winnie W. Kamau, P150/38587/2017. Genetic Diversity and Survival rate of *Aedes Stegomyia* in Kerio Valley and Rabai Arbovirus Ecologies in Kenya. **Graduated in July, 2022.**

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.**

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.**

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

Jackline Gakii, Q58/CTY/31417/2015. Preditors 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 5Hospital, Kenya. **Graduated in July, 2019.**

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

1.8 Administrative Positions Held

1. September 2025 to date, **Director**, Kenyatta University Funeral Home.
2. From 3rd to 23rd September, 2021, **Ag. Dean**, School of Medicine, Kenyatta University.
3. From 19th September, 2020 to 19th September, 2024, **Chairman**, Department of Medical Laboratory Sciences.
4. From 15th March to 15th June, 2019, seconded to Kenyatta University Hospital as the **Chief Medical Laboratory Technologist**.
5. From 18th November, 2019 to 16th December, 2019, **Acting Chairman**, Medical Laboratory Science department.
6. From 23rd April, 2019 to 14th June, 2019, **Acting Chairman**, Medical Laboratory Science department.
7. From March 2016 to September 2020, **Chairman, MLS Departmental Board of Postgraduate Studies**.
8. From January, 2014 to December, 2016: **Website Coordinator**, Department of Medical Laboratory Science, Kenyatta University.
9. From January, 2012 –January, 2013: **Coordinator**, School of Health Sciences, Mount Kenya University, Mombasa Campus.

10. From 1st May 2008 up to August, 2009, **Exam Co-coordinator**, Kenya School of Medical Science and Technology, Thika.