


Academic Staff Profile Template

1.1 Personal Profile

1.1.1 Personal Details

<p>Name: Dr. Nelson Chengo Menza, PhD</p> <p>Department: Medical Laboratory Science</p> <p>Designation: Lecturer and Chairman, Dept. of Med. Lab. Science</p> <p>Email: menza.nelson@ku.ac.ke</p> <p>Areas of Specialization: Medical Microbiology: Medical Mycology.</p> <p>Research Interests: Medical Bacteriology and Mycology; areas in pathogens identification, antimicrobial susceptibility profiles.</p> <p>Google Scholar: https://scholar.google.com/citations?user=jTV4ZD8AAAAJ&hl=en</p> <p>ORCID iD: https://orcid.org/0000-0002-6591-0094</p>	
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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

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

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.

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.

Joseph GM, 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 Kuttrrh 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, 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 Mwasiaji , 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 Mugo¹, 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, ISSN2165- 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.	Marafa Boys Secondary School	BOM member	2019 to date	Member	-
3.	External Reviewer	Kabarak University	2020 to date	Grants funding proposals	50 USD
4.	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 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

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. Multi-disciplinary 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

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.

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 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

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. gonorrhoea 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. From 19th September, 2020 to date, **Chairman**, Department of Medical Laboratory Sciences.
2. From 15th March to 15th June, 2019, seconded to Kenyatta University Hospital as the **Chief Medical Laboratory Technologist**.
3. From 18th November, 2019 to 16th December, 2019, **Acting Chairman**, Medical Laboratory Science department.
4. From 23rd April, 2019 to 14th 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 1st May 2008 up to August, 2009, **Exam Co-coordinator**, Kenya School of Medical Science and Technology, Thika.