

Academic Staff Profile Template

1.1 Personal Profile

1.1.1 Personal Details

Name: Title/Qualification: Dr Scholastica Gatwiri Kithinji Mathenge Department: Medical Laboratory Science Designation/Position: Senior lecturer Email: mathenge.scholastica@ku.ac.ke Contact Address: 43844-00100 Nairobi Areas of Specialization: Biochemistry Medical Microbiology Research Interests: Biochemistry research in diagnostics and nutrition impacts on health. Intrinsic and extrinsic causes of antimicrobial resistance to drugs	
--	--

1.1.2 Academic & Professional Qualifications

Ph. D (Biochemistry) Kenyatta University (2013)

MSc. (Medical Microbiology) Jomo Kenyatta University of Agriculture and Technology (2006)

BSc (Biochemistry) Jomo Kenyatta University of Agriculture and Technology (1997)

KCSE- Loreto High School, Limuru- (1991)

1.1.2 Employment History

2019 - To date Kenyatta University. Senior lecturer

2014-2018 Kenyatta University. Lecturer

2008-2013 Kenyatta University. Tutorial Fellow

1997-2007 Kenyatta National Hospital. Medical Laboratory Scientist

1.2 Publications

1.2.1 Referred Journals

Mumbo MT, Nyaboga EN, Kinyua J, Muge EK, **Mathenge SGK**, Muriira G, Rotich H, Njiraini B and Njiru JM (2023) Prevalence and antimicrobial resistance profile of bacterial foodborne pathogens in Nile tilapia fish (*Oreochromis niloticus*) at points of retail sale in Nairobi, Kenya. *Front. Antibiot.* 2:1156258. doi: 10.3389/frabi.2023.1156258

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. ISSN: 2578-7365

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

John K. Njenga, **Scholastica G. Mathenge**, Nelson C. Menza and Jessie N. Githanga (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, 2022; Article no.IJR2H.80366

Muia, Mutuku Onesmus, **Scholastica Gatwiri Mathenge**, Wachuka Gathigia Njoroge, Titus Kamau Karuga, and Kyama Cleophas Mutinda. (2021) "Prevalence and Patterns of Cervical Cytological Lesions among HIV-Positive Women in Machakos County Hospital Kenya." *International Research Journal of Oncology* 4, no. 1 (2021): 28-35.

Muia, Mutuku Onesmus, **Scholastica Gatwiri Mathenge**, Wachuka Gathigia Njoroge, Titus Kamau Karuga, and Kyama Cleophas Mutinda. (2021) "Prevalence of Bacterial Vaginosis among HIV-Positive Women in Machakos County Hospital, Kenya." *Asian Research Journal of Gynaecology and Obstetrics* 5, no. 1 (2021): 28-34.

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

Johnstone Amulioto, Margaret W. Muturi, **Scholastica Mathenge** and Gideon M. Mutua. (2020) Antibiotic susceptibility patterns of bacteria isolates from post-operative wound infections among patients attending Mama Lucy Kibaki Hospital, Kenya. *African Journal of Microbiology Research* 14(8):420-425

Dinah Moraa, **Scholastica Gatwiri Mathenge**, Arodi Washington, Torome Tom, Oliver Mbuthia, Martin Kinyua (2019). Antibiotic Susceptibility Pattern among Male Patients with Urinary Tract Infection in Special Treatment Centre Nairobi County, Kenya. *International journal of advanced Multidisciplinary Research* Vol. 6 (2) 36-41.

Joseph Mwangi Kibuchi, **Scholastica Gatwiri Mathenge**, Wachuka Gathigia (2019). Antibiotic susceptibility profile of the *Klebsiella pneumoniae* isolated from Africa Inland Church Hospital Kijabe, Kenya. *International Journal of Advanced Multidisciplinary Research*. ISSN: 2393-887.6(2):74-86

Joseph Mwangi Kibuchi, **Scholastica Gatwiri Mathenge**, Wachuka Gathigia (2019). Prevalence of Klebsiella pneumoniae among patients attending Africa Inland Church Hospital Kijabe, Kenya. *International Journal of Advanced Multidisciplinary Research* ISSN: 2393-887. 6(2):61-73

Vincent Mageto Mogaka, **Scholastica Gatwiri Mathenge**, Wachuka Gathigia (2019). Njoroge Gender and Social-demographic factors of urinary tract infections among diabetic patients in Kisii referral Hospital, Kenya. (2019)

Scholastica Gatwiri Mathenge, Wachuka Gathigia Njoroge, Onesmus Muia Mutuku. (2018) Assessment of Selected Heavy Metals in Soil and Untreated Wastewater Used For Irrigation in Urban and Peri-Urban Farms in Eastern Nairobi City County, Kenya. *Journal of Medical Science and Clinical research*. Vol 06, Issue 08 page 743-749. August 2018. ISSN (e)-2347-176x ISSN (p) 2455-0450.

Scholastica Gatwiri Mathenge, Wachuka Gathigia Njoroge, Onesmus Muia Mutuku. (2018). Assessment of Selected Antibiotics in Untreated Wastewater and Vegetables in Urban and Peri-Urban Farms in Eastern Nairobi City, Kenya. *European Journal of Pharmaceutical and Medical Research* 2018,5(9), 117-122 ISSN 2394-3211

Oliver Waithaka Mbuthia, **Scholastica Gatwiri Mathenge**, Micah Onger Oyar. (2018). Etiology and pathogenicity of bacterial isolates: a cross sectional study among diarrhoeal children below five years in central regions of Kenya. *The Pan African Medical Journal* ISSN 1937-8688

Vincent Mageto Mogaka, **Scholastica Gatwiri Mathenge**, Wachuka Gathigia Njoroge (2018). Uropathogens antibiotic resistance patterns among Type 2 diabetic patients in Kisii Teaching and Referral Hospital Kenya. *Pan African Medical Journal*. ISSN 1937-8688

Claire Luseno otunga, **Scholastica Gatwiri Mathenge**, Francisca A.O Ongecha (2017). Assessment of utilization of postpartum care services among women in Webuye west, Bungoma County, Kenya. *East African Medical Journal*. Vol 94 No. 10. Pg 826-845. ISSN: 0012-835X

Scholastica Gatwiri Mathenge, R.N. Wanjau, G.M.Kenji (2017) Trimethoprim and sulfamethoxazole residues in untreated wastewater used for irrigation in peri-urban farms in Nairobi County, Kenya. *Nature Environment and Pollution Technology* 4 (16) ISSN 0972-6268 (Print) ISSN 2395-3454 (Online)

Anne Nkirote Kimathi, **Scholastica Gatwiri Mathenge**, Zachary Mwithiga Kithinji (2017). The role of Internet connectivity on Customer Satisfaction in Commercial Banks In Meru County, Kenya. *Journal of Business and Management*. e-ISSN 2278-487x, p-ISSN: 2319-7668. Volume 19, Issue 7. Version 7. (July 2017), PP 51-55.

Anne Nkirote Kimathi, Wilson Muema, **Scholastica Gatwiri Mathenge** (2017). The role of Access to Internet Enabled Devices on Customer Satisfaction in Commercial Banks. A survey of Survey Banks in Meru County. *International Journal of Business and Management Science*. Volume 3, Issue 5: paper 3

Scholastica Gatwiri Mathenge, R.N. Wanjau, G.M.Kenji (2014) Sulfamethoxazole residues in vegetables irrigated with untreated waste water. Journal of Pharmaceutical and Biomedical Sciences 4(1)1-10, 2014. ISSN 2090 – 424X

1.2.2 Conference/Workshops/Seminar Papers

1.2.2.1 Conference Papers

Kiio Juliana, Kilonzo Fidelis, Kyalo Daniel, Muui Catherine, **Mathenge Scholastica Gatwiri**. International Food Safety Conference. Theme: “Food and nutrition safety from farm to fork: a missing link in consumer health and food security” Sub-Theme: Food Safety Along the Food Chain. Kenyatta University. 20th to 24th May, 2019. Potential For Wastewater Re-Use in Urban and Peri-Urban Agriculture to Mitigate Household Food Insecurity in Nairobi, Kenya

Mathenge Scholastica Gatwiri, Wanjau Ruth Nduta, and Kenji Glaston Mwangi. International Food Safety Conference. Theme: “Food and nutrition safety from farm to fork: a missing link in consumer health and food security” Sub-Theme: Food Safety along the Food Chain. Kenyatta University. 20th to 24th May, 2019. Are our vegetables on Drugs? Sulfamethoxazole Residues in Vegetables Irrigated with Untreated Wastewater.

Scholastica Gatwiri Mathenge Assessment of Selected Heavy Metals in Soil and Untreated Wastewater Used For Irrigation in Urban and Peri-Urban Farms in Eastern Nairobi City County, Kenya. First International Conference on Urban Agriculture and City Sustainability. Wessex Institute UK. 9th -11th October (2018)

Vincent Mogaka Mageto, **Scholastica Gatwiri Mathenge**, Wachuka Njoroge, Caroline Ngetsa Jumwa Urinary tract infections and antibiotic susceptibility among non-insulin dependent diabetes mellitus patients. Lagos, Nigeria. 21-23 September 2018.

Vincent Mogaka Mageto, **Scholastica Gatwiri Mathenge**, Wachuka Gathigia Njoroge (2018). African Society for Laboratory Medicine. Urinary tract infections and antibiotic sensitivity among non-insulin dependent diabetes mellitus patients. Aga Khan University Infectious Diseases Symposium.

Claire Luseno otunga, **Scholastica Gatwiri Mathenge**, Francisca A.O Ongecha (2017). Assesment of utilization of postpartum care services among women in Webuye west, Bungoma County, Kenya. University of Nairobi, KNH premises. 14-16th June 2017.

Wachuka Njoroge, **Scholastica Gatwiri Mathenge**. The ethical approach to rendering services to patients in a diagnostic laboratory. KU Amphitheatre. 29 September-2nd October 2015.

Scholastica Gatwiri Mathenge. Prevalence of Shigella dysenteriae in children in S/Imenti District in Meru County. Nairobi Kenya. 27th May 2011.

1.3 Research

S/ No	Researcher	Year	Title	Donor	Funding (US\$)
1.	Scholastica Mathenge	2009-2013	Determination of chemical hazards in vegetables irrigated with untreated wastewater in Lower Eastern Nairobi	Dean's grant	
2.	Scholastica Mathenge	2003-2004	Shigella dysenteriae as a causative agent for diarrhea in S/Imenti District in Meru County		

1.4 Funded Projects

S/ No	Researcher	Year	Title	Granting Body	Funding (KShs)
1.	Juliana Nduku, Scholastica Mathenge, Judy Okoth	2007-2016	The effects of Zinc Sprinkles on moderately malnourished children in Kiandutu slums, Thika	NACOSTI	Kshs 1200000
2.	Fidelis Kilonzo, Juliana Kiio, Scholastica Mathenge, Catherine Muui	2016-2019	Evaluation of the potential for an eco-friendly and peri-urban agriculture UPA system	Vice Chancellor's Grant	Kshs 2000000

1.5 Conferences/Workshops/Seminars Attended

1.5.1 Conferences Attended

S/No	Presenter	Title of Paper presented	City/Country	Date of Conference	Funding (US\$)
1.	Scholastica Mathenge	Prevalence of Shigella dysenteriae in children in S/Imenti District in Meru County	Nairobi Kenya	27/5/2011	
	Scholastica Mathenge, Wachuka Njoroge	The ethical approach to rendering services to patients in a diagnostic laboratory	KU Amphitheatre	29 September-2 nd October 2015	
	Scholastica Mathenge, Claire Luseno Jumwa, Francisca Ongecha	Assessment of utilization of postpartum care services among women in Webuye West Bungoma County, Kenya	University of Nairobi, KNH premises	14-16 th June 2017	
	Scholastica Mathenge, Vincent Mogaka Mageto, Wachuka Njoroge, Caroline Ngetsu Jumwa	Urinary tract infections and antibiotic susceptibility among non-insulin dependent diabetes mellitus patients	Lagos, Nigeria	21-23 September 2018	
	Scholastica Mathenge	Trimethoprim and sulfamethoxazole residues in untreated wastewater used for irrigation in	New Forest, United Kingdom	9-11 October 2018	

		peri-urban farms in Nairobi County, Kenya.			
--	--	--	--	--	--

1.5.2 Workshops Attended

- A virtual workshop on the new research information system (KENRIS) and science, Technology and Innovation (STI) mainstreaming held on 19th May 2022 by the KU Research Support & National Commission for Science Technology and Innovation, Nairobi, Kenya.

- Pedagogical Skill Training, organized by the Centre for the Teacher Professional Development and Excellence, Kenyatta University, from 29th September to 2nd October 2020.

-MLS MSc and Ph.D. curricula Review Workshop held at Kenyatta University Conference Centre, Kenya on 29th and 30th August 2019.

- Capacity Building Training Workshop on Collaborations and Partnerships, at Kenyatta University Conference Centre, on 17th July 2019.

- Awareness training on New Learning Management system (LMS) at the Student's Computer Laboratory, on Tuesday 18th September, 2018

- Workshop on System Science and Industrial Engineering, at Kenyatta University Central Administration Senate Boardroom, on Friday 14th September, 2018

- Awareness Training on ISO 27001, Information Security Management Systems (ISMS), at Business and Students Service Centre (BSSC), on 17th June, 2018.

- National Research Fund Workshop, Kenyatta University, Nairobi- Kenya- January 2018

-Innovative Teaching Methodologies and clinical mentorship workshop conducted by Kenyatta University in collaboration with the Partnership with Pro-Advanced Clinical Education (PACE) project, a programme of the university of Maryland and the University of Nairobi from 19th-23rd August 2013

-‘Publishing Scientific Research’ seminar by Springer conducted at Kenyatta UNIVERSITY 30TH May 2013

-Germany Academic Service (DAAD) Ph.D Proposal writing workshop, Kenya 28th February 2013.

-National Biotechnology awareness strategy (Bio WARE) organized by the national Council for SCIENCE AND Technology, Kenya from 7th-9th December 2011

-WHO Self Assessment Questionnaire on responsible life sciences research for global security organized by Kenyatta University from 16th-17th September 2011

-Attended the Research Methodology Training Workshop of the East African Sub-regional Network of Tertiary Institutions against the HIV/Aids pandemic organized by the Institute for Research, Science and Technology, Kenyatta University 14-15th April, 2011

-Attended the Open Access Arica Workshop hosted by Biomedical Central (BMC) in partnership with Computer Aid International organized by the Institute for research, Science and Technology, Kenyatta University 10-11th November 2010

-Attended the Data Analysis Conference Organized by the Department of Mathematics, Kenyatta University which was held from 26th August-3rd September 2009

1.5.3 Seminars Attended

-23rd Post graduate seminar for PhD graduands organized by graduate School on 25th November 2011

-23rd Post graduate Seminar for Masters graduands organized by the school of Health Sciences, Kenyatta University on 23rd November 2011

-22nd Post graduate seminar held for Ph. D graduands organized by graduate school on 18th June 2010

-22nd post graduate seminar for masters graduands organized by School of Health Sciences, Kenyatta University on 21st November, 2010

1.6 Supervision of Postgraduate Students

1.6.1 Masters

S/No	Name of student	Thesis title	Status of project
1.	Clairee Luseno Otunga Q139/cty/pt/25818/2013	Assessment of Utilization of Postpartum care services among women in Webuye West, Bungoma County, Kenya	Graduated December 2017
2.	Ephantus Muturi Kiama (MSc)	Prevalence of asymptomatic bacteria and antimicrobial susceptibility among pregnant women attending antenatal clinic of Gatundu Level four Hospital in Kiambu County	Graduated 2018 July

3.	Joseph Mwangi Kibuchi (MSc)	Determination of the frequency of <i>Klebsiella pneumoniae</i> and the antimicrobial susceptibility in Hospital acquired infections in Kijabe Hospital, Kiambu County	Graduated July 2022
4.	Vincent Mageto (MSc) P150/CE/25571/2014	Determination of Urinary Tract infections and antibiotic sensitivity among Non-Insulin Dependent Diabetes Mellitus Patients Visiting Kiss Teaching and Referral Hospital	Graduated 2018 December
5.	Nicholas Mutai Kipkoech (MSc)	Determination of Risk Factors and Sero Prevalence of Rubella Antibodies among children of 105 Years attending Nakuru Provincial General Hospital	On data collection
6.	Raphael KalamaNella (MSc)	Evaluation of Stabilization Tubes for Storage of CD4 HIV Positive Samples at Kilifi District Hospital, Kenya	Graduated July 2021
7.	Oliver Mbuthia Waitheka (MSc)	Determination of Diarrhoeal Diseases and Antibiotic Sensitivity Profiles among Children under five years in Muranga County, Kenya	Graduated July 2019

8.	Issa Suleiman Mwinyikombo (MSc) P150/CE/24988/2013	Detection and molecular characterization of antibiotic resistance in <i>Pseudomonas</i> isolates in selected Hospitals in Mombasa County of Kenya	Graduated 2018 December
9.	Johnstone Amulioto(MSc)	Isolation and characterization of bacterial pathogens from postoperative wounds in hospitalized patients at MP Shah Hospital	Graduated December 2021
10.	Irene Nachiro (MSc)	Determination of bacterial pathogens isolated from domestic water reservoir in real estate development in Nairobi	Proposal developing
11.	Dinah Moraa Ondari (MSc)	Isolation and identification of enteric uropathogens in male patients attending STC casino clinic Nairobi County, Kenya	Graduated December 2019
12.	Joseph Waichungo Gititu (MSc)	Multi drug resistant enteric bacteria among Hospitalized Children with and without severe malnutrition at three hospitals in Kenya	Graduated in 2019 July
13	Okoyo Eric Ochieng' (MSc)	Current prevalence and Antibiotic resistance patterns of uropathogens isolated among	Developing proposal

		patients attending the Moi Teaching and Referral Hospital in Eldoret Kenya	
14.	Mwaleso K Said (MSc)	Determination of prevalence of Helicobacter pylori infection in Patients with Gastric Ulcers and the associated Risk Factors	Graduated July 2019
15.	Tony Munene Mwambia	Group B Streptococcus Prevalence, Antibiotic Susceptibility and Risk Factors for Colonization among Antenatal Women at Mbagathi Hospital, Nairobi City County, Kenya	Graduated December 2021
16.	Onesmus Mutuku Muia (Ph D)	The utility of a Manual Liquid Based Cytology in Screening for Pre-cancerous Lesion and Cervical Ca	Graduated July 2022
17.	John Kariuki Njenga (Ph D)	‘Total Blood Volume, Iron Status and Hematological Profiles of Whole Blood Donors at Kenyatta National Hospital, Nairobi City County, Kenya	Graduated July 2023
18.	Liza Kienda Mwirigi (Ph D)	Genetic diversity, prevalence and haematological	On final thesis draft September 2023

		indices in enteric parasitic infections among children below ten years presenting with diarrhea in Kiambu County	
19.	Sarah Malinda Syengo	Lipid Profiles, Cardiovascular Disease Risk and Dyslipidemia in HIV Positive Patients on HAART at Machakos Level Five Hospital, Machakos County	Defended thesis successfully, awaiting graduation in December 2023
20.	Charles Mutie Kyalo	Method Verification and Quality Assurance of Quantitative Analytical Methods in Clinical Chemistry Department, Machakos Level V Hospital, Machakos County, Kenya.	Thesis submitted for marking July 2023. Awaiting Defence and graduation.
21.	Francis Langasu Lengeiya	Relationship Between Electrolytes and Glycated Haemoglobin due to Poor Adherence to Antidiabetics in Amoy Diabetic Patients Attending Samburu County Referral Hospital, Kenya.	
22.	Hannah Wanjiru Mwangi	Point Prevalence of Acetylcholinesterase Inhibition,	On the First Thesis draft, September 2023

		Neuropathy and Safety Awareness Among Flower Farm Workers in Naivasha, Nakuru County, Kenya.	
23.	Brian Mutai	Evaluation of Dyslipidemia and Glycemic Control in Type II Diabetes Patients in Thika Level 5 Hospital, Kiambu County, Kenya	On data collection. September 2023
24.	Augustine Mutisya Mukiti	Evaluation of Compliance with Occupational Safety and Health Practice Among Medical Laboratory Staff in Kenyatta National Hospital, Nairobi City County, Kenya	On Data collection, September 2023

1.7 Professional/Consultancy (Editor/Peer review in journals, Networks/Collaborations, External Examiner)

- Asian Journal of Biology peer reviewer
- Journal of pharmaceutical Research International peer reviewer
- International Journal of Research and Reports in Haematology peer reviewer
- Journal of International Research in Medical and Pharmaceutical Sciences peer reviewer
- Post graduate external examiner for MSc thesis for Mbithi Mulinge TM300-1176/2012 from JKUAT

1.8 Community Service and Other Engagements

- Member, St Paul's Mukuyu Catholic Church Strategic Plan Development Committee
- Member, St Stephen Jumuiya Small Christian Community, St Pauls Catholic church, Mukuyu, Ruiru

- Member of Parents Association at Loreto High School Limuru
- Member of Parents Association at Moi Forces Academy- Lanet
- Guest of Honour Loreto High School Limuru, June 2017.

1.9 Affiliation of Professional Bodies

S/No	Name of professional body
1.	Kenya Chemical Society

2.0 Administrative Positions Held

2.1.1 Recognized university administrative positions

21st September, 2016 to date: Appointed Chairman, Department of Medical Laboratory Science

December 2017-February 2018-Acting Dean School of Medicine

September 26th 2015-September 20th 2016: Appointed Examination Coordinator, Department of Medical Laboratory Science

15th December 2008-September 20th 2016 Department Timetabling Coordinator

15th December 2008-15th March 2016 Chairman, Departmental Board of Postgraduate studies