

CURRICULUM VITÆ

MR PETER KULOBA NYONGESA

Name	Mr Peter Kuloba Nyongesa
Date of birth	17 th April, 1963
Marital status	Married
Designation	Assistant Lecturer
Department	Department of Medical Microbiology and Parasitology
Faculty	School of Medicine
Current Employer	Masinde Muliro University of Science and Technology (MMUST)
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Address (Office)	Department of Medical Microbiology and Parasitology, School of Medicine, Masinde Muliro University of Science and Technology (MMUST) P.O. Box 190-50100. Kakamega, KENYA
Previous Employer(s)	Egerton University, Department of Biological Sciences P.O BOX 536, Njoro
	University of Nairobi, Department of Clinical Studies P.O BOX 30197, Nairobi

ACADEMIC CAREER

Ph.D: (2018) -Ongoing in Biomedical Sciences, Masinde Muliro University of Science & Technology

Research: *Diversity of Culturable Endophytic Fungi and Analysis of Antimicrobial Activities of Secondary Metabolites from Selected Medicinal Plants of Western Kenya*

Msc (2016)-Medical Biotechnology, Maseno University.

Thesis: *“Antimicrobial Activities of Secondary Metabolites from Vernonia adoensis and Ocimum kilimandscharicum medicinal Plants and Associated Endophytes from Kakamega Forest in Kenya”*.

Bsc (2011) -Medical Biotechnology, Masinde Muliro University of Science &Technology

Advanced Diploma in Public Health (2004) - Kenyatta University

Higher National Diploma (1991)-Medical Laboratory Technology- Kenya Polytechnic

Ordinary Diploma (1989)-Medical Laboratory Technology- Kenya Polytechnic

Kenya Advanced Certificate of Education (KACE)-1984- Kibabii High School

Kenya Certificate of Education (KCE)-1982- Kibabii High School

Certificate of Primary Education (CPE)-1978- Lumboka Primary School

EMPLOYMENT HISTORY (WORK EXPERIENCE)

1. 2020 To date Lecturer/ (Microbiologist/Molecular Biologist-MMUST)
2. 2015-2017 Senior Principal Technologist
3. 2011-2015 Chief Technologist(MMUST)
4. 1996-2011 Senior Technologist(Egerton University/MMUST)
5. 1989-1996) Technologist(University of Nairobi)
6. 1985-1986 Untrained Secondary School teacher

COURSES TAUGHT:

- ✓ Advanced Food Microbiology and Parasitology
- ✓ Advanced Bioprocess Technology and Bioexploration
- ✓ Microbiology [Bacteriology, Virology, Mycology]
- ✓ Genetic Engineering
- ✓ Molecular Biology
- ✓ Microbial Genetics
- ✓ Cell Biology
- ✓ Nutritional Biochemistry
- ✓ Food Fermentations and Biotechnology
- ✓ Nutritional Pharmacognosy

UNIVERSITY AND COMMUNITY SERVICES

1. Internal University Quality Auditor
2. Chairperson, BOM, St Peter.s Syekumulo Secondary School, Bungoma County
3. Chairperson, BOM, Nandingwa Primary School, Bungoma County

4. Chairperson of Professionals, St Anthony, Mateka Secondary School, Bungoma County
5. Technical Examinations Assessor, KNEC

PROFESSIONAL AFFILIATION

Member of the Biomedical Society of Kenya

PUBLICATIONS AND CONFERENCE PROCEEDINGS

1. Wavinya, F., Omolo, M., Malebo, H., Sifuna, A., **Nyongesa, P.**, & Nonoh, J. (2021). Antibacterial Activity of Honey from Wild Species of Stingless Bees; *Plebeinia hylderbrandii* and *Meliponula bocandei*. *Journal of Biosciences and Medicines*, 9(7), 67-84.
2. Baraza, D. L., Ooko, S., **Nyongesa, P. K.**, & Sande, E. (2021). Phytochemical Analysis, Isolated Ergosta-5, 7, 22-triene-3 β , 14 β -diol (22Z) and Antimicrobial Activity of Kenyan *Ganoderma lucidum*.
3. Boge, E. A., **Nyongesa, P.**, Okoth, P., & Sifuna, A. W. (2021). Biofilms and Antimicrobial Susceptibility Profiles of *Escherichia coli* Recovered from Wastewater Treatment Plants in Kakamega Municipality, Kenya. *Egyptian Journal of Microbiology*, 56(1), 25-34.
4. Sande, E., Baraza, D. L., Ooko, S., & **Nyongesa, P. K.** (2020). Isolation, Characterization and Antibacterial Activity of Ergosta-5, 7, 22-triene-3 β , 14 α - diol (22Z) from Kenyan *Ganoderma lucidum*.
5. Ondeko, D. A., Juma, B. F., Baraza, L. D., & Nyongesa, P. K. (2020). LC-ESI/MS and GC-MS Methanol Extract Analysis, Phytochemical and Antimicrobial Activity Studies of *Centella asiatica*.
6. Ndirangu, P. N., Mungube, E. O., Maichomo, M. W., **Nyongesa, P. K.**, Wamae, D., On'gala, J. O., ... & Siamba, D. (2019). A novel pH-based pen-side test for detection of sub-clinical mastitis: validation in cattle and camels, Kenya. *Livestock Research for Rural Development*, 31(1).
7. M.W. Maichomo, P.N. Ndirangu, E.O. Mungube, J. Ochieng, **P.K. Nyongesa**, N.W. Gicheru, G. Keya, D. Siamba and H.O. Wesonga. 2017. Antibiotic Sensitivity

- of Bacterial Isolates from Milk of Camels and Cattle with Mastitis in Kenya.
8. Ndirangu P.N, Siamba D.N, Wesonga H, **Nyongesa P**, Mugambi J.M. 2015. Prevalence of Bovine Mastitis and its Bacterial Causes with their Antibiotic Sensitivity in a Research Centre Farm in Kenya.
 9. **Nyongesa P.K**, Siamba D.N, Guyah B. 2017. Antimicrobial Potency of the Crude Metabolites from the Endophytes of selected Medicinal Plants of the Kakamega Forest in Kenya
 10. **Nyongesa, P. K. (2016)**. *Antimicrobial Activities of Secondary Metabolites From Vernonia Adoensis and Ocimum Kilimandscharicum Medicinal Plants and Associated Endophytes From Kakamega Forest in Kenya* (Masters dissertation, Maseno University).
 11. P.N. Ndirangu, E.O. Mungube, M. Maichomo, **P.K. Nyongesa**, D.Wamae, J.O. Ong'ala, N.W. Gicheru, G. Keya, H. Wesonga, and D. Siamba. 2017. Validation of a pH Based Pen-Side Test for Detection of Sub-Clinical Mastitis in Camels and Cattle in Kenya.
 12. Siamba D. N., H.M. Tsingalia, D.M. Kuria, A. Osogo and **P. Nyongesa. 2013**. The potential role of endophytes in the conservation of endangered medicinal plants.
 13. Wekesa, C. S., Okun, D., Juma, K., Shitabule, D., Okoth, P., **Nyongesa, P.**, ...& Muoma, J. (2016). Abundance and symbiotic potential of common bean (*Phaseolus vulgaris*) nodule associated bacteria in western Kenya soil. *MAYFEB Journal of Agricultural Science, 1*, 1-9.
 14. Milton, W., Kollenberg, M., Donald, S. N., & **Peter, N.**(2018). Antibiotic susceptibility patterns of pathogenic bacteria recovered from unprocessed bovine milk produced in Ndivisi Ward, Bungoma County.
 15. Wangila, P. T., Tsimbiri, P., & **Nyongesa, P.** (2014). Determination of Selected Heavy Metals and Iron Concentration in Local Brews Consumed in Kericho and Bomet Counties in South Rift, Kenya.

BOOK CHAPTER

Sande, E., Baraza, D. L., Ooko, S., & Nyongesa, P. K. (2020). Isolation, Characterization and Antibacterial Activity of Ergosta-5, 7, 22-triene-3 β , 14 α -diol (22Z) from Kenyan *Ganoderma lucidum*. *Asian Journal of Applied Chemistry Research* 5(1): 48-57, 2020; Article no.AJACR.54802 ISSN: 2582-0273

RESEARCH INTERESTS

Medical Microbiology and biotechnology and natural therapeutic products research.

PATENTS AND PRODUCT REGISTRATION

Pen-side pH indicator impregnated mastitis test strip (Patent application in progress)

RESEARCH COLLABORATIONS

1. Cambridge University-ALBORADA Funding: Antibiotic Resistance and Virulence in *Pseudomonas aeruginosa* wound isolates from regional referral hospital in Western Kenya.
2. Kakamega and Cambridge Global Health Partnerships Working to strengthen Antimicrobial Stewardship at Kakamega County Teaching and Referral Hospital (The Flaming Fund through Cambridge Global Health Partnerships-CGHP and CwPAMS).

REFEREES

1. Prof Donald Namasaka Siamba
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E. Mail: dsiamba@gmail.com,
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2. Dr, Philip Ogutu
Masinde Muliro University of Science & Technology Department of
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