



DR.PATRICK MBUVI MUTUA (PHD)

EDUCATOR AND IMMUNOLOGIST

PROFILE

Patrick Mbuvi Mutua is a highly experienced educator and immunologist with a strong background in both academic research and educational leadership. He holds a PhD in Immunology and has extensive experience in teacher training, policy implementation, and school administration. His research focuses on immunology, public health, and environmental science, with numerous publications in peer-reviewed journals. He is dedicated to fostering educational excellence and promoting scientific understanding.

WORK EXPERIENCE

January 2016 – Present: TSC Sub County Director
(Teachers Service Commission Middle Teacher Management Level in charge of a Sub County)

- Training teachers in emerging curriculum reforms.
- Overseeing policy implementation.
- Supervision of teacher performance contracting.
- Optimal distribution of teachers in schools.
- Teacher discipline and other teacher management roles as assigned.

August 2015 - January 2016: Member of Board of Management (BOM), Kalulini Boys High School
Teachers' representative in the board

May 2011 - January 2016: Head of Department (Science) and Principal Graduate Teacher II (Teaching Biology and Mathematics) - Kalulini Boys High School

September 2010 - May 2011: Deputy Principal, Mikuyuni Secondary School
Teaching Biology and Mathematics. Supervision of curriculum implementation.

January 2010 – September 2010: Senior Graduate Teacher, St. Josephs High School
Teaching Mathematics and Biology.

May 2005 – December 2009: Senior Graduate Teacher, Limuru Girls School
Teaching Mathematics and Biology. Assistant Dean of Studies.

January 1996 – May 2005: Mutomo Girls School

Teaching: Mathematics and Biology. Games Master 1999 – 2002. National Principal Advisor (Biology) during the students' congress on science and technology 2004.

ENTREPRENEURSHIP

January 2024 – Present: Founder And Director

IMMUNOBIOLOGIC RESEARCH AND CONSULTANCY (IRC)

A science-driven, community-anchored firm based in Kibwezi specializing in translating complex biomedical science into high-impact health solutions for underserved populations across Makueni, Kitui, Machakos, Taita Taveta, and coastal counties.

Detailed information available on the firm's website at www.irckibwezi.co.ke

CONTACT

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EDUCATION

2013 - 2016

KENYATTA UNIVERSITY

- PhD (Immunology)

2007 - 2010

KENYATTA UNIVERSITY

- MSc (Immunology)

2001 - 2004

KENYATTA UNIVERSITY

- B.ED (Science)

1993 - 1995

KAGUMO TEACHERS COLLEGE

- Dip.Ed (Science)

1988 - 1991

KAKUSWI SEC. SCHOOL

- KCSE

1979 - 1987

KAKUSWI PRI. SCHOOL

- KCPE

LANGUAGES

- English (Fluent)
- Swahili (Fluent)

SKILLS

- Education Management
- Curriculum Development
- Policy Implementation
- Teacher Training
- Performance Management
- School Administration
- Immunology Research
- Scientific Writing
- Data Analysis
- Public Speaking
- Leadership
- Teamwork
- Problem Solving
- Computer Proficiency

CERTIFICATIONS AND REGISTRATIONS

January 2013 – October 2013: Diploma in Education Management (Credit). Kenya Education Management Institute.

Kenya Society of Immunology Reg No: 0112

PUBLICATIONS

- Mutua PM, Mutiso J., Gicheru MM (2024). A survey of knowledge and attitudes towards antibiotic use and resistance among teachers in the Republic of Kenya: Implications for using teachers in raising public awareness of rational antibiotic use in school communities. PLoS ONE 19(12): e0316122. <https://doi.org/10.1371/journal.pone.0316122>
- Mutua P.M., Kauti M.K., Mwangangi L., Nzilani M.S (2023). Assessment of Climate Change Anxiety in High School Youths of Kwale County, Kenya. African Journal of Climate Change and Resource Sustainability, 2(1), 201-223. <https://doi.org/10.3728/ajccrs.2.1.1610>.
- Mutua P.M., Mutiso J.M., Simbauni J.A., Gicheru M.M (2021). Teachers' Perception On COVID-19 Vaccine: Implications on COVID-19 Prevention in Kenya. Journal of Vaccinology, Vol 3(1):1-5
- Mutua MP, Muya S, Muita G (2020). A General Perspective of microbiota in Human Health and Disease. Archives of Clinical Microbiology, Vol. 11 No 2:106. <https://doi.org/10.36648/1989-8436.11.2.106>
- Mutua P. Mbuvi, Muya M. Shadrack, and Gicheru M. Muita (2016). Protective roles of Free Avian Respiratory Macrophages in the Captive Birds. Biological research,49: 29. <https://doi.org/10.1186/s40659-016-009-7>
- Mutua P. Mbuvi, Lucilla Steinaa, Muya M. Shadrack, Gicheru M. Muita (2015). Activation of Peroxisome Proliferator-Activated Receptor Gamma induces antiinflammatory properties in the Chicken Free Avian Respiratory Macrophages. Journal of Animal Science and Technology, 57.40. <https://doi.org/10.1186/s40781-015-0073-1>
- Mutua P. Mbuvi, Steinaa Lucilla, Muya Shadrack, Gicheru Muita (2015). The Avian Respiratory Antioxidant System: Quantitative and Qualitative Attributes of Peroxisomes in the Chicken Respiratory System. Journal of Cell and Animal Biology (Available in the ResearchGate <https://doi.org/10.13140/RG.2.1.2989.9604>
- Mutua P.M., Gicheru M.M, Makanya A.N, Kiama S.G (2011). Comparative quantitative and qualitative attributes of free surface respiratory macrophages in the duck and rabbit. International Journal of Morphology, 29(2):353– 362 <https://dx.doi.org/10.4067/S071795022011000200008>
- Mutua P.M and Kiama S.G (2011). A Comparataive in vitro study of morphology and phagocytic capacity of the free surface respiratory macrophages in the duck and the rabbit. Journal of Cell and Animal Biology. Vol.5(8), pp 169-175. Available online at <https://academicjournals.org/journal/JCAB/article-full-textpdf/4CC4BBC13520>

PhD (Immunology) Thesis. Title: Functional characterization of peroxisomes and peroxisome proliferator activated receptor gamma in the chicken respiratory system

M.Sc. (Immunology) Thesis. Title: Comparative quantitative and qualitative attributes of free surface respiratory macrophages in the duck and rabbit

LINKS TO MY PUBLICATIONS AND CITATIONS

Google Scholar: <https://share.google/Dwuf42OMh8iseEZvZ>

Daily Nation: <https://share.google/9Pm4qstiYPJU5GjQM>

Researchgate: <https://www.researchgate.net/profile/Mbuvi-Mutua>

CONFERENCES AND SEMINARS

- Kenyatta University Conference on Basic and Applied Sciences 16th-18th November 2022. Theme: Embracing Science and Technology for Resilience and Transformation.
- Kenyatta University 33rd Postgraduate Seminar for PhD 2nd December 2016 “Education, Research and Innovation for Attainment of Sustainable Development Goals”
- Federation of African Immunological Societies (FAIS 9th conference). Held on 30th November – 4th December 2014. Theme “Towards Full Integration of Immunology into Africa’s Healthcare System”
- Kenyatta University: PhD Proposal Defense Seminar. 15th August 2013
- Kenyatta University: Graduate School, 21st Postgraduate Seminar Presentations. 2010

REFERENCES

Prof. Gicheru Michael

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