

Dr. Lilian Adhiambo Ogonda

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EDUCATION

- 2005-2009: Doctor of Philosophy (PhD) in Immunology,
Kenyatta University, Nairobi, Kenya.
- 1998-2001: Master of Science (MSc) in Applied Parasitology
Kenyatta University, Nairobi, Kenya.
- 1989-1993: Bachelor of Veterinary Medicine (BVM)
University of Nairobi, Nairobi, Kenya.

RESEARCH EXPERIENCE

2009-2010: PI; Expression and polymorphisms of Fc gamma receptors (FcγRs) on monocytes of children with severe and non severe malaria; International Society for Infectious Diseases (ISID), US\$ 5000 Fellowship Grant.

2002-2005: Co-investigator; Role of Immune Complex in Severe Malarial anemia (1R01HL071502-01); PI Dr. Jose Stoute.

2008- August 2010: Senior Research Officer with KEMRI/ Walter Reed project, Kisumu, Kenya.

2002-2007: Research Officer with KEMRI/ Walter Reed project, Kisumu, Kenya.

TEACHING EXPERIENCE

September 2010 to date: Lecturer, Department of Biomedical Science and Technology, Maseno university, Kenya.

I am actively involved in teaching both undergraduate and postgraduate students. In addition, I guide and supervise postgraduate students through their thesis research work. Four postgraduate students are currently under my supervision in various stages of their thesis research work. I have successfully supervised nineteen postgraduate students to completion.

HONORS AND AWARDS

2010: Travel Grant Recipient, Parasite to Prevention conference, Heriot-Watt University, Edinburgh, UK. Poster presented: "The levels of CD16/Fc gamma receptor III A on CD14+CD16+ monocytes are higher in children with severe *Plasmodium falciparum* anemia than in children with cerebral or uncomplicated malaria".

2009: International Society for Infectious Diseases (ISID) Scientific Exchange Fellowship award. US\$ 5000 Fellowship Grant. Research done at Pennsylvania State University College of

Medicine,USA. “Expression and polymorphisms of Fc gamma receptors (FcγRs) on monocytes of children with severe and non severe malaria”.

2009: Student Travel Award Recipient, ASTMH 58th Annual Meeting- Washington, DC. Poster presented: “Expression of FcγRIII by monocytes from Children With *Plasmodium falciparum* malaria: Association With Severe Malarial Anaemia”

2007: Travel Grant Recipient, Symposium on Infectious Diseases in Africa: Measurement of Immune responses, Johannesburg, South Africa.

Oral presentation: “Expression of FcγRIII, CR3, Intracellular tumor necrosis factor-alpha and nitric oxide production by monocytes from Children With *Plasmodium falciparum* malaria”

2001: Honorable Mention, young investigator Award, The American Society of Tropical Medicine and Hygiene (ASTMH) 50th Annual Meeting- Atlanta, Georgia. Oral presentation: “Expression of LFA-1, MAC-1 and ICAM-1 on Leucocytes from patients with uncomplicated and complicated *Plasmodium falciparum* malaria”.

PROFESSIONAL MEMBERSHIP

Member, Kenya Veterinary Association (KVA)

Member, Kenya Veterinary Board (KVB)

Member, Maseno University Ethics Review Committee

SKILLS AND TRAINING

May 2019: Research Ethics training, Egerton University, Kenya.

May 2017: Protecting Human Research Participants, NIH Web-based training course.

2014: Training of trainers in Innovative teaching methodologies and clinical mentorship, Kisumu, Kenya.

2012: Innovative teaching methodologies and clinical mentorship, Egerton University, Njoro, Kenya.

June 2010: Malaria Microscopy Training, Malaria Diagnostics Centre of Excellence, Kisumu, Kenya.

2009: Blood borne pathogens, Laboratory safety, Hazard Communications, and portable Fire Extinguishers, KEMRI, Kisumu.

November 2007: Detection of Antigen-Specific T Cells by Intracellular Cytokine Staining, Johannesburg, South Africa.

September 2006: Human Subjects Protection, KEMRI, Kisumu.

June 2005: Good Clinical Practice, KEMRI, Kisumu.

May 2003: Research Ethics Training Curriculum (online), Family Health International, Kenya.

May 2003: The Laboratory safety and Blood Borne Pathogen, KEMRI, Kisumu.

2002: The Laboratory Training Safety and QA/QC program, KEMRI, Kisumu.

May 2002: Flow Cytometry, Virtual School, Faculty of Life and Health Sciences, Ulster University, Northern Ireland, UK.

LEADERSHIP EXPERIENCE

October 2024 to date: Dean, School of Public Health and Community Development, Maseno University, Kenya.

March 2020 – September 2024: Chairperson, Department of Biomedical Science and Technology, Maseno University, Kenya.

July 2016 – April 2020: Chairperson, Postgraduate Studies Committee, School of Public Health and Community Development, Maseno University, Kenya.

CONFERENCES AND WORKSHOPS

1. 30th April- 3rd May 2019: Research Ethics training Workshop, Egerton University, Kenya.
2. 7-11th April, 2014: Training of trainers in Innovative teaching methodologies and clinical mentorship, Kisumu, Kenya.
3. 24 – 27th April 2012: Innovative teaching methodologies and clinical mentorship, Egerton University, Njoro, Kenya.
4. 20th-22nd October 2010: Parasite to Prevention conference, Heriot-Watt University, Edinburgh, UK. Poster presented: “The levels of CD16/Fc gamma receptor III A on CD14+CD16+ monocytes are higher in children with severe *Plasmodium falciparum* anemia than in children with cerebral or uncomplicated malaria”.
5. 18th-22nd November 2009: The ASTMH 58th Annual Meeting- Washington, DC, USA. Poster presented: “Expression of FcγRIII by monocytes from Children With *Plasmodium falciparum* malaria: Association With Severe Malarial Anaemia”
6. 2nd- 6th November 2009: The 5th Multilateral Initiative on Malaria (MIM) Pan-African Malaria Conference, Nairobi, Kenya. Oral presentation: “Expression of FcγRIII by monocytes from Children With *Plasmodium falciparum* malaria: Association With Severe Malarial Anaemia”
7. 10-11th November 2007: Symposium on Infectious Diseases in Africa: Measurement of Immune responses, Johannesburg, South Africa.
Oral presentation: “Expression of FcγRIII, CR3, Intracellular tumor necrosis factor-alpha and nitric oxide production by monocytes from Children With *Plasmodium falciparum* malaria”
8. 12-17th November 2007: 2nd African Workshop on Detection of Antigen-Specific T Cells by Intracellular Cytokine Staining, Johannesburg, South Africa.
9. 28-30th June 2006: Workshop on Molecular Biology and Immunology in Malaria Vaccine Development, Kampala, Uganda.

10. 26th May-6th June 2003: Introduction to Biomedical Research workshop, KEMRI, Kisumu, Kenya.
11. 11-15th November 2001: The ASTMH 50th Annual Meeting- Atlanta, Georgia, USA. : Paper presented: “Expression of LFA-1, MAC-1 and ICAM-1 on Leucocytes from patients with uncomplicated and complicated *Plasmodium falciparum* malaria”.

PUBLICATIONS

1. **Ogonda A. L.**, Alloys S. S. Orago, Michael F. Otieno, Walter Otieno, and José A. Stoute. (2010). The Levels of CD16/Fc γ Receptor IIIA on CD14+CD16+ Monocytes Are Higher in Children with Severe *Plasmodium falciparum* Anemia than in Children with Cerebral or Uncomplicated Malaria. *Infect. Immun.* 78 (5):2173-2181.
2. Munde E. O., Okeyo W. A., Anyona S. B., Raballah E., Konah S., Okumu W., **Ogonda L.**, Vulule J. and Ouma C. (2012). Polymorphisms in the Fc Gamma Receptor IIIA and Toll-Like Receptor 9 Are Associated with Protection against Severe Malarial Anemia and Changes in Circulating Gamma Interferon Levels. *Infect. Immun.* 2012, 80(12):4435-4443.
3. J. K. Kirorei, P. Mwinzi, K. Chelimo and **Lilian Ogonda**. (2014). Epidemiology of helminths in primary school children in Kisumu municipality, Western Kenya. *International Journal of Infectious Diseases.* (2014) 21: 298-299.
4. Drusilla N. Nyangahu, Wilson Odero, **Lilian Ogonda**, Morris S. Shisanya and Everlyne N. Morema. (2015). Characteristics of Injuries among Children Attending Public Primary Schools in Kisumu Municipality, Kenya. *Donn. J. Nurs. Midwif.* (2015) 1(2): 005-018.
5. Bob O. Awino, **Lilian A. Ogonda**, Grace C. Barno and Ng’wena G. Magak. (2016). Awareness status and associated risk factors for hypertension among adult patients attending Yala sub-county hospital, Siaya county, Kenya. *Public Health Research.* 2016, 6(4): 99-105.
6. Calleb George Onyango, **Lilian Ogonda**, Bernard Guyah, Peter Okoth, Clement Shiluli, Felix Humwa and Vallarie Opollo (2018). Seroprevalence and determinants of transfusion transmissible infections among voluntary blood donors in Homabay, Kisumu and Siaya counties in western Kenya. *BMC Research Note*, 11:171
7. Sabiano O Odero, **Lilian Ogonda**, David Sang, Elly O Munde, Clement Shiluli, and Patrick Chweya. (2019). Distribution of Biomphalaria Snails in Associated Vegetations and Schistosome Infection Prevalence Along the Shores of Lake Victoria in Mbita, Kenya: A Cross-Sectional Study. *EAHRJ*, 3 (2): 172-177.
8. Agumba, S., Gimnig, J.E., **Ogonda, L.**, Ombok M., Kosgei J., Munga S., Guyah B., Omondi S. and Ochomo E. (2019). Diagnostic dose determination and efficacy of chlorfenapyr and clothianidin insecticides against *Anopheles* malaria vector populations of western Kenya. *Malar J*, 18 (243)
9. Daniel K. Kurui, James H. Ombaka and **Lilian Ogonda**. (2020). Factors Associated with Substance Abuse by Students in Medical Training Colleges in South Nyanza Region, Kenya. *Br J Med Health Res.* 2020; 7(01): 2394-2967.

10. Calleb George Onyango, **Lilian Ogonda**, Bernard Guyah, Clement Shiluli, Gregory Ganda, Omenge Elkanah Orang'o and Kirtika Patel. (2020). Novel biomarkers with promising benefits for diagnosis of cervical neoplasia: a systematic review. *Infectious Agents and Cancer*, 15 (68).
11. Catherine Wawira Muriuki, **Lilian Adhiambo Ogonda**, Cecilia Kyanya, Daniel Matano, Clement Masakhwe, Erick Odoyo and Lillian Musila. (2021). Phenotypic and Genotypic Characteristics of Uropathogenic *Escherichia coli* Isolates from Kenya. *Microbial Drug Resistance*, 28 (01); <http://doi.org/10.1089/mdr.2020.0432>
12. Elizabeth A. Odundo, Hailey P. Weerts, Lillian Musila, **Lilian Ogonda**, Anita M. Dreyer, Joerg Schneider, Paula Carranza, and Robert W. Kaminskib. (2022). Immunization of Rabbits with a Quadrivalent Shigella Bioconjugate Vaccine Induces Functional Antibodies Reactive with Shigella Isolates from Kenya. *ASM Journals/ mSphere*, 7 (3): 01020-21
<https://doi.org/10.1128/msphere.01020-21>
13. Maurice Songoreh Asamuka, **Lilian Ogonda**, Calleb George Onyango, and Bernard Guyah (2023). The role of vitamin D status on treatment outcome among HIV- infected children receiving care in Kisumu County, Kenya. *Res Sq.* doi: 10.21203/rs.3.rs-3286937/v1