Evans Raballah, Ph.D

Job Title and Responsibilities

Job Title: Lecturer

Department: Medical Laboratory Sciences

Responsibilities: My responsibilities include teaching various courses in the **School of Public Health Biomedical Sciences and Technology and School of Nursing and Midwifery**. These courses include Immunology, Cell biology and Genetics, Molecular Biology and Genetics and Research Methods. In addition, I mentor both undergraduate and masters students for their research projects from the Department of Medical Laboratory Sciences, my mother department. I also coordinate examination and time tabling matters in the School of Public Health Biomedical Sciences and Technology.

About Me

I am a self-motivated and result oriented worker. I enjoy sharing new information and reading scientific journals, and doing collaborative research.

Qualifications

2011 – 2015	Ph.D. in Immunology with Dr. George Orinda **Kenyatta University**, Nairobi, Kenya
2013- 2015	Diploma in Medical Laboratory Technology, **Kisumu Polytechnic** (Credit pass)
2008 – 2011	Msc. In Immunology with Prof. Rebecca Waihenya **Jomo Kenyatta University**, Juja, Kenya
2002-2005	MSc. Entomology with Prof. Callistus Ogol **Kenyatta University,** Nairobi, Kenya
1998 – 2002	Bachelor of Education Science [(Botany and Zoology), Second Class Honours upper Division], **Kenyatta University**, Nairobi, Kenya

Professional Memberships and Activities

Member of Kenya Immunology Society

Expertise

I am an expert in cellular and humoral immunological techniques and Genetics

Trained Medical Laboratory Technologist

Enterprise and Commercial Activities

External Thesis examiner, University of Venda, South Africa

Research Interests

My research interests are in immunogetics. Currently, I am engaged in research in the field of immunogenetics of severe malarial anaemia in western Kenya. This is collaborative research between Masinde Muliro University of Science and Technology and Centre for Global Health Research (CGHR) in Kisumu. Malaria remains a major cause of morbidity and mortality in immune naïve children. The brunt of the disease is bore by African Children. Most of the malaria cases are caused by the more virulent *Plasmodium falciparum*. In western Kenya, severe malaria manifests as severe malarial anaemia (SMA). Although many children suffer malaria in this region, it is about 20% who suffer from SMA. This could be genetically related.

Selected Publications

Raballah E, Kempaiah P, Karim Z, Orinda GO, Otieno MF, Perkins DJ and Ong'echa JM. (**2017).** CD4 T-cell expression of IFN-γ and IL-17 in pediatric malarial anemia. *PLoS One*. Apr 20; 12 (4):e0175864. doi: 10.1371/journal.pone.0175864. eCollection.

Elly O. Munde, Winnie A. Okeyo, **Evans Raballah**, Samuel B. Anyona, Tom Were, John M. Ong'echa, Douglas J. Perkins and Collins Ouma. **(2017).** Association between Fcγ receptor IIA, IIIA and IIIB genetic polymorphisms and susceptibility to severe malaria anemia in children in western Kenya. *BMC Infectious Diseases* 17:289

Elly O. Munde, **Evans Raballah**, Winnie A. Okeyo, John M. Ong'echa, Douglas J. Perkins and Collins Ouma. **(2017).** Haplotype of non-synonymous mutations within IL-23R is associated with susceptibility to severe malaria anemia in a *P. falciparum* holoendemic transmission area of Kenya. *BMC Infectious Diseases* 17:291

Kempaiah P, Dokladny K, Karim Z, **Raballah E**, Ong'echa JM, Moseley PL, and Perkins DJ. (**2016).** Reduced Hsp70 and Glutamine in Pediatric Severe Malaria Anemia: Role of Hemozoin in Suppressing Hsp70 and NF-κB activation. *Mol Med*. Aug 30. doi: 10.2119/molmed.2016.00130

Okeyo WA, Munde EO, Okumu W, **Raballah E**, Anyona SB, Vulule JM, Ong'echa JM, Perkins DJ, Ouma C. **(2013).** Interleukin (IL)-13 promoter polymorphisms (-7402 T/G and -4729G/A) condition susceptibility to pediatric severe malarial anemia but not circulating IL-13 levels. *BMC Immunol*. 14:15. doi: 10.1186/1471-2172-14-15

Munde EO, Okeyo WA, Anyona SB, **Raballah E**, Konah S, Okumu W, Ogonda L, Vulule J, 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*. 80(12):4435-43. doi: 10.1128/IAI.00945-12. Epub 2012 Oct 8.

Anyona SB, Kempaiah P, **Raballah E**, Davenport GC, Were T, Konah SN, Vulule JM, Hittner JB, Gichuki CW, Ong'echa JM, Perkins DJ. **(2012)**. Reduced systemic bicyclo-prostaglandin-E(2) and cyclooxygenase-2 gene expression are associated with inefficient erythropoiesis and enhanced uptake of monocytic hemozoin in children with severe malarial anemia. *Am J Hematol*. . doi: 10.1002/ajh.23253. [Epub ahead of print]

Onyango EO, Ayodo G, Watsierah CA, Were T, Okumu W, Anyona SB, **Raballah E**, Okoth JM, Gumo S, Orinda GO, Ouma C. **(2012)**. Factors associated with non-adherence to Artemisinin-based Combination Therapy (ACT) to malaria in a rural population from holoendemic region of western Kenya. *BMC Infect Dis*.;12 (1):143. [Epub ahead of print]

Kempaiah P, Anyona SB, **Raballah E,** Davenport GC, Were T, Hittner JB, Ong'echa JM, Perkins DJ. **(2012).** Reduced interferon (IFN)-α conditioned by IFNA2 (-173) and IFNA8 (-884) haplotypes is associated with enhanced susceptibility to severe malarial anemia and longitudinal all-cause mortality. *Hum Genet*. [Epub ahead of print]

Anyona SB, Kempaiah P, **Raballah E**, Ouma C, Were T, Davenport GC, Konah SN, Vulule JM, Hittner JB, Gichuki CW, Ong'echa JM, Perkins DJ. **(2011)**. Functional Promoter Haplotypes of interleukin-18 Condition Susceptibility to Severe Malarial Anemia and Childhood Mortality. *Infect Immun*., **79**, no. 12; 4923–4932.

John M. Ong'echa, **Evans O. Raballah**, Prakasha Kempaiah, Samuel B. Anyona, Tom Were, Gregory C. Davenport, Stephen Konah, John M. Vulule, Collins Ouma, James B. Hittner, and Douglas J. Perkins. **(2011).** Polymorphic variability in the 3′ untranslated region (UTR) of *IL12B* is associated with susceptibility to severe anaemia in Kenyan children with acute *Plasmodium falciparum* malaria. *BMC Genetics*, **12:**69

Collins Ouma, Gregory C. Davenport, Steven Garcia, Prakasha Kempaiah, Ateefa Chaudhary, Tom Were, Samuel B. Anyona, **Evans Raballah,** Stephen N. Konah, James B. Hittner, John M. Vulule, John M. Ong'echa and Douglas J. Perkins. (**2011).** Functional haplotypes of Fc gamma (Fc□) receptor (FcgRIIA and FcgRIIIB) predict risk to repeated episodes of severe malarial anemia and mortality in Kenyan children. *Human Genetics*, DOI 10.1007/s00439-011-1076-8

Carren A Watsierah, Walter GZO Jura, **Evans Raballah**, Dan Kaseje, Benard Abong'o, and Collins Ouma. **(2011).** Knowledge and behaviour as determinants of anti-malarial drug use in a peri-urban population from malaria holoendemic region of western Kenya. *Malaria Journal*.;10 (1):99.

Current Teaching

I currently teach at the Department of Medical Laboratory Sciences and Clinical Nursing and Informatics. I have delivered the following courses **Immunology, Cell biology and Genetics, Molecular Biology and Genetics and Research Methods** for a number of years.

Contact Details

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