

# Richard Odak Otieno

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## EDUCATION

- AUG 2018 – TODATE: Doctorate student in Cell and Molecular Biology
- THESIS TITLE Epstein-Barr Virus Genetic Variation in Children with Burkitt Lymphoma
- JUN 2002 – DEC 2006: Maseno University, Maseno, Kenya Master of Science (M.Sc.) in Cell and Molecular Biology
- THESIS TITLE Impact of HIV-1 Exposure and HIV-1 Infection on Haematological and Immunological Characteristics during Acute *Plasmodium falciparum* Malaria in Infants and Young Children
- JULY 1992 – JULY 1996 Moi University, Eldoret, Kenya Bachelor of Science (B.Sc.) with a major in Zoology and minor in Botany

## RESEARCH EXPERIENCE

- OCT 2008 – DEC 2013 SUNY Upstate Medical University/KEMRI Project  
Graduate Research Assistant
- JUL 2007 – OCT 2008 University of Nairobi, College of Health Sciences  
Senior Laboratory Technologist
- MAY 2004 – JUL 2007 University of Pittsburgh/KEMRI Project  
Graduate Research Assistant
- JAN 1999 – MAY 1999 University of Erasmus, Rotterdam/Nyanza Provincial Medical Office  
STDSIM Project  
Research Assistant

## TEACHING EXPERIENCE

- OCT 2010 – TODATE Maseno University  
Assistant Lecturer  
Lecturing genetics, immunology and related courses
- OCT 2008 – OCT 2010 Maseno University  
Tutorial Fellow  
Lecturing genetics, immunology and related courses
- SEPT 2000 – MAY 2004 Kisumu Senior Academy, Kisumu, Kenya  
Taught Biology, Chemistry and Mathematics Class Teacher, Science club patron, Examination master, Disciplinary and Counseling and guidance master
- JAN 1998 – AUG 2000 St. Teresa's Girls' Secondary School, Kisumu, Kenya

1997 Joel Taught Biology, Chemistry and Mathematics Class Teacher, Science club patron, Head of chemistry department, and Counseling and guidance committee member in charge of careers  
Omino Secondary School, Kisumu, Kenya Taught Biology, Chemistry and Mathematics Class Teacher, Science club patron, Head of chemistry department

## **HONORS AND AWARDS**

2020- Received a grant from NRF Kenya to study Prevalence and molecular characterization of Mycetoma causative agents in Trans Nzoia County

JUNE- 2013 Received scholarship from Alex Lemonade to train in SUNY Upstate Medical University, on Illumina Next generation sequencing to determine Epstein-Barr Virus Genetic Variation in Children with Burkitt Lymphoma

## **PROFESSIONAL MEMBERSHIP**

2002 – 2004 Member of KEMRI ethics review committee

## **SKILLS AND TRAINING**

JUNE-AUG 2013 Attended Alex Lemonade sponsored training in SUNY Upstate Medical University, on Illumina Next generation sequencing to determine Epstein-Barr Virus Genetic Variation in Children with Burkitt Lymphoma

JUNE 2008 International Viralcheck Workshop held in Dakar, Senegal

JULY 2006 Attended East African Regional Workshop on vaccines for Parasitic Diseases organized and sponsored by Seattle Biomedical Research Institute in Morogoro, Tanzania

JULY 2006 Completed a training on Laboratory Safety and handling Biohazardous materials

MAY 2002: Attended a course organized by EDEXCEL on developing teaching skills at Oshwal Boys' school in Nairobi, Kenya.

JAN 1999: Attended a seminar organized by Erasmus University, Rotterdam The training included: Quantitative and Qualitative Data Collection Processes and Techniques, Pre-test interviews, In-depth interviews transcription and write-ups

## **LEADERSHIP EXPERIENCE**

In-charge of quality assurance in the department of zoology, Maseno University

## **CONFERENCES AND WORKSHOPS**

NOV 2009 7th International Cancer Conference of AORTIC, in Dar Es Salaam, Tanzania

OCT 2009 Keystone Symposia on "Overcoming the Crisis of TB and AIDS" in Arusha, Tanzania.

NOV 2005

Fourth MIM Pan-African malaria Conference, new strategies against an ancient scourge. November 13-18, Yaounde, Cameroon

DEC 2004

Workshop on Severe Malarial anaemia and related co-infections, organized by University of Pittsburgh International Malaria Training Program/KEMRI Presented a talk on “Impact of HIV-1-exposure and HIV-1-infection on haematological characteristics during acute *Plasmodium falciparum* malaria in infants and young children”

## PUBLICATIONS

Simbiri KO, Smith N, **Otieno RO**, Wohlford EM, Odada SP, Middleton F, and Rochford R. (2015). Epstein – Barr Virus Genetic Variation in Lymphoblastoid Cell Lines derived from Kenyan Pediatric Population. PLoS ONE 10(5)

Sumba PO, Kabiru EW, Namuyenga E, Fiore N, **Otieno RO**, Moormann AM, Orago AS, Rosenbaum PF, Rochford R. (2010). Microgeographic variations in Burkitt's lymphoma incidence correlate with differences in malnutrition, malaria and Epstein-Barr virus. British Journal of Cancer. 23;103(11):1736-41.

Ong'echa JM, Remo AM, Kristoff J, Hittner JB, Were T, Ouma C, **Otieno RO**, Vulule JM, Keller CC, Awandare GA, Perkins DJ. (2008). Increased circulating interleukin (IL)-23 in children with malarial anemia: in vivo and in vitro relationship with co-regulatory cytokines IL-12 and IL-10. Clinical Immunology. 126(2):211-21.

Awandare G, Yamo O, Ouma C, CC Keller, Were T, Ong'echa JMO, **Otieno RO**, Davenport GC, Hittner BJ, Ferrell R and Perkins DJ. (2007) Suppression of Macrophage Migratory Inhibitory Factor in children with severe malaria anemia: Role of monocyte-acquired hemozoin. Infection and Immunity. 75(1): 201-10.

**Otieno RO**, Ouma C, Ong'echa JM, Keller CC, Were T, Waindi EN, Michaels MM, Day RD, Vulule JM, and DJ Perkins. (2006). Increased severe anemia in HIV-1-exposed and HIV-1-positive infants and children during acute malaria. AIDS. 20:2, 275-280.

Ong'echa JM, Keller CC, Were T, Ouma C, **Otieno RO**, Landis-Lewis Z, Ochiel DO, Slingluff JL, Ogonji M, Orago AS, Vulule JM, Kaplan SS, Day RD, and DJ Perkins. (2006). Parasitemia, anemia, and malarial anemia in infants and young children in a rural holoendemic *Plasmodium falciparum* transmission area. American Journal of Tropical Medicine and Hygiene. 74: 376-385.

Ouma C, Keller CC, Opondo D, Were T, **Otieno RO**, Otieno MF, Orago AS, Ong'echa JM, Vulule JM, Ferrell RE, and DJ Perkins. (2006). Association of Fcy receptor IIa (CD32) polymorphism with malarial anemia and high-density parasitemia in infants and young children. American Journal of Tropical Medicine and Hygiene. 74 (4): 573-577.

Were T, Hittner JB, Ouma C, **Otieno RO**, Orago ASS, Ong'echa JM, Vulule JM, Keller CC, and Perkins DJ. (2006). Suppression of RANTES in children with *Plasmodium falciparum* malaria is associated with severe malarial anemia and suppression of erythropoiesis. Haematologica. 91:1396-1399.

Awandare GA, Ouma C, Keller CC, Were T, **Otieno R**, Ouma Y, Davenport GC, Hittner JB, Ong'echa JM, Ferrell R, Perkins DJ. (2006) A macrophage migration inhibitory factor promoter polymorphism is associated with high-density parasitemia in children with malaria. *Genes Immunity*. 7(7):568-75.

Simbiri KO, Smith N, **Otieno RO**, Wohlford EM, Odada SP, Middleton F, and Rochford R. (2014). Epstein – Barr Virus Genetic Variation in Lymphoblastoid Cell Lines derived from Kenyan Pediatric Population. Submitted