

# Ng'wena Asha Gideon Magak

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## EDUCATION

### November 2005- December 2009: Postdoctoral Training

- In a Malaria immunology Laboratory under the University of Minnesota/KEMRI Highland Malaria project based at Kisian KEMRI station.
- As a postdoctoral Scientist, I was involved in a study that was investigating Malaria transmission and Immunity in two Highland regions in western Kenya. The study investigated the measure of protective immunity in communities living in epidemic prone areas of Kapsisiywa and Kipsamoite in Nandi North District within Rift Valley Province of Kenya.
- Research area: Determination of Antibodies and cytokine levels during low and high transmission periods in the highlands of western Kenya.

Jan 2000-Jan 2004

### Ph.D in Cell and Molecular Biology

Maseno University, Maseno-Kenya

**Programme:** Coursework and Thesis

**Subject:** Cell and Molecular Biology

1994-March 1997

### M.Sc in Medical Physiology

School of Medicine, University of Nairobi, Nairobi-Kenya

**Programme:** Coursework and Thesis

**Subject:** Medical Physiology

NOV 1988-May 1991

**B.Sc. (Hon)** Moi University, Eldoret-Kenya

**Subject:** **Biological Sciences (Zoology Major)**

OCT 2011-JUNE 2012

Additional undergraduate training: Year One MBChB-Moi University, College of Health Sciences; Human Anatomy, Immunology, Introduction to Biomedical Sciences, Microbiology, Nursing Skills, Community Based Education and Service (COBES), Biochemistry, Communication Skills, Behavioral Sciences

## RESEARCH EXPERIENCE

- Cancer
- Hemoparasites'-infection transmission, pathogenesis and pathophysiology
- Herbal interventions in diabetes
- Malaria transmission and Immunity
- Assessment of Protein Metabolites as markers of liver and Kidney disorders in HIV-infection
- Effects of chewing *Catha edulis* leaves on systemic physiology
- TB-detection techniques

## CURRENT RESEARCH ACTIVITIES

1. Profiling of cancer types in Kisumu County
2. Effect of Diosmin-Hesperidin combination on HIV-Protease inhibitor induced hyperglycemia in *Rattus norvegicus albinus*
3. Evaluation of antidiabetic activity of *achyranthes aspera* and *bidens pilosa* leaf extracts , and glibenclamide in alloxan- induced diabetic laboratory rats
4. Efficacy of anti-diabetic herbs used by Tugens of Baringo County, Kenya
5. Effects of autoimmune diseases on women fertility

## TEACHING EXPERIENCE

June 2017-Present

**Associate Professor;** Department of Medical Physiology  
School of Medicine, Maseno University  
P.O. Box 333, Maseno-Kenya

2012-Present

**Senior Lecturer;** Department of Medical Physiology  
School of Medicine, Maseno University  
P.O. Box 333, Maseno-Kenya

2004-2012

**Lecturer;** Department of Medical Physiology  
School of Medicine, Moi University  
P.O. Box 4606-30100, Eldoret-Kenya

1999-2004

**Tutorial Fellow;** Department of Medical Physiology  
Faculty of Health Sciences, Moi University  
P.O. Box 4606-30100, Eldoret-Kenya

1997-1999

**Part time Lecturer;** Department of Zoology,  
Faculty of Science, Maseno University  
P.O. Box 333, Maseno-Kenya

## HONORS AND AWARDS

- **(2014):** Research Grant-PRIME-K: Survey of trypanosomosis in Lambwe Valley: 5000USD. Administered through Maseno University school of Medicine.
- **(2011):** Research grant from National Council for Science and Technology, The Ministry of Higher Education Science and Technology; **NCST/5/003/3rdCALL PhD/183: Dec, 2011**, KSh 900,000. Administered through Chepkoilel University College
- **(2009): Research Leadership Grants, June, 2009:**400,000USD. Administered through, KEMRI, Busia station (ALUPE)
- **(2000-2004):** PhD Research Grant 30,000USD, By WHO through the Multilateral Initiative on Malaria (**MIM**) administered through Kenya Medical Research Institute (KEMRI) and Maseno University. *Anopheles gambiae* and *Anopheles funestus*: Population Structure and Temporal Gene Flow in Western Kenya.
- Translational Malaria Research, UMN, KEMRI, Moi University and Maseno University, PI- Prof. Chandy John. Researcher-Ng'wena G. Magak
- **(1994):** MSc Degree Scholarship Award (University of Nairobi, BPS through the School of Medicine

## PROFESSIONAL MEMBERSHIP

1. A member of the Society of Neuroscience in Africa (SONA)
2. A member of the International Society of Neuroscience (ISN)
3. A member of the International Brain Research Organization (IBRO)

## SKILLS AND TRAINING

- Electrocardiography (ECG)
- Extraction of DNA
- Polymerase Chain Reaction (PCR)-DNA amplification for species identification
- Microsatellite Polymerase Chain Reaction (PCR) for determination of genetic polymorphism
- Sporozoite and blood meal ELISAs
- Cytokines and Antibody ELISAs (need more training in this area)
- *Plasmodium falciparum* cultures (need more training in this area and more particularly with respect to gene sequencing)
- Radioimmunoassay/Enzymeimmunoassay for Hormones
- Histological sectioning and staining techniques
- Coulter counter-(Blood indices)
- Computer literate (MS-word and Excel)

## LEADERSHIP EXPERIENCE

June 2017-Present	<b>Chairman</b> of the Department of Medical Physiology, School of Medicine, Maseno University, Kenya
Sept 2014-Present	<b>Coordinator</b> of the Department of Medical Physiology Postgraduate program. <b>Chairman</b> , the Maseno University School of Medicine Postgraduate committee
May 2012-2016	<b>Representative</b> , of the School of Medicine to the University AIDS Control Unit Committee (MUACU), <b>Maseno University</b>
May 2012-Present	<b>Chairman</b> , the School of Medicine Curriculum Committee, <b>Maseno University</b>  Member, <b>School of Medicine research and Publication Committee</b> , Maseno University  Chairman, <b>School of Medicine Community Attachment and research Course committee</b>
Sept 2011-Sept 2012	Coordinator, <b>Annual International Conference Committee, School of Medicine</b> , Moi University
Jan 2007-Dec 2010	Coordinator of <b>Community Based Education and Service (COBES IV for MBChB, BSc Nursing and BSc EVH)</b> <b>At the School of Medicine in</b> Moi University  Departmental Examinations Coordinator, <b>Department of Medical Physiology</b> , School of Medicine
Nov 2005-Dec 2009	Laboratory Supervisor <b>in the University of Minnesota-KEMRI</b>

## **Immunology and Molecular Biology labs**

- Sept 2004 – Sept 2005      **Acting Head of Department:  
Department of Medical Physiology**  
Faculty of Health Sciences,  
Moi University,  
Eldoret-Kenya
- November 2004**      **President Elect** - The Seventh International Brain Research Organization  
(IBRO) African Schools
- Jan 2013 to Present***      ***Reviewer-African Journal of Health Sciences (AJHS)***
- Jan 2000 to Present***      ***Proposal Reviewer- Institutional Research and Ethics  
Committee IREC- based at the MTRH and Moi University  
School of Medicine***
- Jan 2005 to Dec 2009**      **Proposal and Manuscript Reviewer-** Scientific Committee of the  
KEMRI/CGHR center

### **In Other Areas (Social Responsibilities):**

- January, 2020-Present**      **Church Elder and a Member of the church Board**  
SDA Church, Eldoville  
Eldoret Town, Uasin Gishu County
- March 2016-Present**      **Member, BOM, Ombek High School, Homa Bay County**
- March 2016-Present**      **Member, BOM, Nyambare High School, Homa Bay County**
- Sept 2015-Present**      **Member, BOM, St. Mary's Chelabal Primary School, Uasin Gishu  
County**
- Jan 2009-2012**      **Chairman BOG, Dol Kodera High School, Rachuonyo District,  
Homa-Bay County**
- Jan 2013-Present2015**      **Member BOG, Dol Kodera High School, Rachuonyo District,  
Homa-Bay County**
- Jan 2009-2012**      **Chairman Warden's Committee, School of Medicine, Moi University**
- Jan 2008-Present**      **Deacon, Teacher and Music Director, Eldoville SDA Church, Eldoret**
- Jan 2008-2009**      **Church Elder, Eldoville SDA Church, Eldoret**

## **CONFERENCES AND WORKSHOPS**

- 4<sup>th</sup> -6<sup>th</sup> Dec, 2019:**      **Mentorship training in preparation for Electives;**
- 6<sup>th</sup> June 2018:**      **Organizer of "The Nyanza Region National Research Fund (NRF) Proposal  
Workshop" Held at Maseno University Board Room**
- 5<sup>th</sup> -9<sup>th</sup> March, 2018:**      **HRH Kenya Mechanisms of Mentorship: Training of Master Trainers.**

- 18-23 Feb, 2018: Workshop by Intra Health: Merica Hotel, Nakuru  
HRH Kenya Mechanisms of Mentorship: Training of Master Trainers of Trainers  
Workshop by Intra Health: MMUST, Kakamega
- 21 September, 2017: Awareness Raising on Biosecurity in Universities for Biological Threat Reduction  
Venue: Maseno University City Campus  
Organizers: The National Commission for Science, Technology and Innovation (NACOSTI); The Commission for University Education (CUE); Center for Biosecurity and Biopreparedness (CBB), Denmark; Maseno University, Kenya
- 13<sup>th</sup> -16<sup>th</sup> Sept 2016. Profiling cancer types in Kisumu County: A case study of histopathology Laboratory reports from Aga Khan Hospital. 11<sup>th</sup> Annual International Conference of Moi University. *13<sup>th</sup> -16<sup>th</sup> Sept 2016. Moi University, Margaret Thatcher Library, Main Campus Eldoret, Kenya*
- Awareness status and associated risk factors for hypertension among adult patients attending Yala Sub-County Hospital, Siaya County, Kenya 11<sup>th</sup> Annual International Conference of Moi University *13<sup>th</sup> -16<sup>th</sup> Sept 2016. Moi University, Margaret Thatcher Library, Main Campus Eldoret, Kenya*
- 2<sup>nd</sup> -4<sup>th</sup> August 2016 **“Human and animal Trypanosomiasis insights from Lambwe Valley Foci, Kenya: Assessment of re-emergence potency and potential trypanotolerance”** *Medical and Nurses Education Partnership Initiative (MEPI and NEPI) 2016 Symposium at the Laico Regency Hotel, Nairobi, Kenya*  
**Theme: Tackling Africa’s Health Challenges: Promoting Health Professions’ Education, Practice, Research and Retention of Health Workers ”.**
- 9<sup>th</sup> -12<sup>th</sup> Sept 2014 **“Effects of *Catha Edulis*’ Leaves’ Extract on Blood Chemistry and Kidney Tissues in Small East African Male Goats from Rift Valley Province of Kenya”**  
*Joint Meeting of the 1st Africa International Biotechnology & Biomedical Conference and the 8th International Workshop on Approaches to Single-Cell Analysis -Safari Park Hotel, NAIROBI*
- 2<sup>nd</sup> May, 2013 **“Prevalence and Histological Characterization of Immunological Thyroiditis in Western Kenya”.** Maseno University School of Medicine Research and Publication Committee Seminar
- 18<sup>th</sup> Sept 2012 **“Effects of Intravenously Administered Khat (*Catha Edulis*) Leaves Extract on the Liver Functions of the Small East African Male Goats”**  
*Moi University 8th Annual International Conference*
- Sept 2004 **“Effects of trypanosomosis on LH and FSH levels in female goats”** The Sixth IBRO African School, at The Rhodes University, Continuing Education Center [CEC], Grahamstown, South Africa
- May 1996 **“Plasma Luteinizing Hormone (LH) levels in *Trypanosoma Congolense* infected female goats challenged with Gonadotropin Releasing Hormone (GnRH)-agonist and Clonidine”.** First Pan-African Conference on Biochemistry and Molecular Biology, Nairobi, Kenya

## PUBLICATIONS

### Conference Abstracts:

1. **Ng'wena G. Magak** (2016): Profiling cancer types in Kisumu County: A case study of histopathology Laboratory reports from Aga Khan Hospital. 11<sup>th</sup> Annual International Conference of Moi University. *13<sup>th</sup> -16<sup>th</sup> Sept 2016. Moi University, Margaret Thatcher Library, Main Campus Eldoret, Kenya.*
2. **Ng'wena G. Magak** (2016): Awareness status and associated risk factors for hypertension among adult patients attending Yala Sub-County Hospital, Siaya County, Kenya. 11<sup>th</sup> Annual International Conference of Moi University. *13<sup>th</sup> -16<sup>th</sup> Sept 2016. Moi University, Margaret Thatcher Library, Main Campus Eldoret, Kenya.*
3. **Ng'wena Gideon Magak** (2016): Human and animal Trypanosomiasis insights from Lambwe Valley Foci, Kenya: Assessment of re-emergence potency and potential trypanotolerance. *Medical and Nurses Education Partnership Initiative (MEPI and NEPI) 2016 Symposium At the Laico Regency Hotel, Nairobi, Kenya*
4. **Ng'wena G. Magak**, Lagat J. Kipkemboi, Mwaniki M. Dickson, Ndiema Moses, Chemwolo K. Luka and Nyariki J. Masimba, **2014**: Effects of *Catha Edulis*' Leaves' Extract on Blood Chemistry and Kidney Tissues in Small East African Male Goats from Rift Valley Province of Kenya. *Joint Meeting of the 1st Africa International Biotechnology & Biomedical Conference and the 8th International Workshop on Approaches to Single-Cell Analysis Safari Park Hotel, NAIROBI*
5. Lagat J. K., **Ng'wena G. M.**, Mwaniki M. Dickson, Ndiema Moses, Chemwolo K. Luka And Nyariki J. Masimba, **2012**: Effects of Intravenously Administered Khat (*Catha Edulis*) Leaves Extract on The Liver Functions of The Small East African Male Goats. *Moi University 8th Annual International Conference*
6. Mwaniki D. M., **Ng'wena A. G. M.**, Chemwolo L. K., Nyariki J. M., and Ndiema K. Moses, **2012**: *Trypanosoma congolense* infection causes testicular degeneration and reduction in sperm quality in goats (*Capra aegagrus hircus*). *Moi University 8th Annual International Conference*
7. Makokha G. W., **Ng'wena, A. G. M.**, Ngeiywa M.M., **2012**: .Factors Affecting The *Trypanosoma* And *Plasmodium* Species Distribution In Small Rodents of Kakamega Forest In Western Kenya. *Moi University 8th Annual International Conference*
8. Bartholomew N. Ondigo, Gregory S. Noland, Gregory S. Park, **Ng'wena G. Magak**, Ayub V. Ofulla, George O. Ayodo, Chandy C. John, MD., **2012**: Stable antibodies frequencies to *Plasmodium falciparum* MSP-142 and GLURP-R2 in a period of absent malaria in highland areas of unstable seasonal transmission, western Kenya. *CC*
9. Choge, K. Joseph., **Magak A. G . Ng'wena.**, Koech Julius, Koech BenK, Magina Eric., Langat, A., Akhwale Willis, Ngeiywa Moses, Esamai Fabian, **2012**: Malaria Diagnosis Challenges in Highland Peripheral Health Centres of western Kenya. *Moi University 8th Annual International Conference*
10. Nyariki J. M., **Ng'wena A. G. M.**, Mwaniki D. M., Luka C. K., Rosemary O., and Ndiema M. K., **2012**: The Effects Of *Trypanosoma Brucei Brucei* Infection On The Pituitary And Adrenal Glands, Rectal Temperature And Body Weight Of Laboratory Rats (*Rattus Norvegicus*). *Moi University 8th Annual International Conference*
11. L. Kisia, **A.G. N. Magak** and A. Chemutia, **2012**: Cyrokin responses to *Plasmodium falciparum* malaria peptides in Kenyan adults living in a sporadic transmission area. *Moi University 8th Annual International Conference*
12. Iddah, M.A., **Ng'wena, A.G.**, Macharia, B.N, Keter, A. Ofulla A. V. O., **2012**: Prevalence, Histological Types, Hormonal and Autoantibody Levels in Immunological Thyroid Disease Patients at MTRH, Western Kenya. *Moi University 8th Annual International Conference*

13. Odera Rosemary, **Ng'wena G. Magak**, Luka K. Chemwolo, Mwaniki D. Minjire and Nyariki J. Masimba, **2012**: Effects of *Allium sativum* extract on *Trypanosoma brucei brucei* Parasites' Morphometric Parameters and Clinical Outcome in Infected White Albino Laboratory Rats. *Moi University 8th Annual International Conference*
14. Choge, K. Joseph, **Magak A. G. Ng'wena**, Koech Julius, Koech BenK, Magina Eric., Langat, A., Akhwale Willis, Ngeiywa Moses, Esamai Fabian, **2012**: Malaria Diagnosis Challenges in Highland Peripheral Health Centres of western Kenya. *Moi University 8th Annual International Conference*
15. W. O. Opiyo, **A. G. M. Ng'wena** and A. V. O. Ofulla, **2012**: Urine Markers of Kidney Disorders And Their Risk Associations In Hiv-Infected Patients Attending Nyanza Provincial General Hospital In Kisumu, Western Kenya. *Moi University 8th Annual International Conference*
16. **Ng'wena G. Magak**, Nyariki J. Masimba, Ndiema Moses, Odera Rosemary, Chemwolo Luka, Mwaniki D. Minjire and Ndungu D. K., **2010**: Acute *Trypanosoma brucei brucei* infection causes reproductive dysfunction by inducing ovarian and anterior pituitary gland tissue degeneration in non-pregnant female rats. **International Brain Research Organization (IBRO) SCHOOL IN La Reunion, France, 26<sup>th</sup> Nov-8<sup>th</sup> Dec 2010**
17. **Gideon M. Ng'wena**, Lyticia V. Ochola, Ayub V. Ofulla, Gregory S. Noland, John M. Vulule, Chandy C. John, **2009**: Cytokine response to *plasmodium falciparum* multistage antigen (MB2) in adults living in areas of varying malaria transmission in western Kenya. **58<sup>th</sup> Meeting of the ASMTH, Marriott Wardman Park, Washington DC USA, November 18<sup>th</sup> -22<sup>nd</sup> 2009**
18. Bilha Ogola, Gregory S. Noland, **Ng'wena Gideon**, Cyrus Ayieko, John M. Vulule, Chandy C. John, **2009**: IFN- $\gamma$  Responses to *Plasmodium falciparum* Antigens in Areas of Unstable Transmission Decrease in Periods of Very Low or Absent Transmission. **58<sup>th</sup> Meeting of the ASMTH, Marriott Wardman Park, Washington DC USA, November 18<sup>th</sup> -22<sup>nd</sup> 2009**
19. Lyticia V. Ochola, **Gideon M. Ng'wena**, Ayub V. Ofulla, Gregory S. Noland, John M. Vulule, Chandy C. John, **2009**: Cytokine response to *plasmodium falciparum* multistage antigen (MB2) in adults living in areas of varying malaria transmission in western Kenya. **5<sup>th</sup> MIM Pan-African Malaria Conference, KICC, Nairobi, Kenya, 2-6 November 2009.**
20. **Ng'wena, A. G. M., 2005**: *Anopheles Gambiae, Anopheles Arabiensis* And *Anopheles Funestus*: Distribution, Seasonal Proportions, *Plasmodium Falciparum* Sporozoite Rates And Host Preferences In Endemic And Epidemic Malaria Zones In Western Kenya. **15<sup>TH</sup> AKMLSO SCIENTIFIC CONFERENCE, KENYA**
21. **Ng'wena, A. G. M., 2005**: Genetic Diversity And Temporal Gene Flow Among *Anopheles Gambiae S.S* And *An. Arabiensis* Populations In Western Kenya. **15<sup>TH</sup> AKMLSO SCIENTIFIC CONFERENCE, KENYA**
22. **Ng'wena, A. G. M., Patel, N. B., Wango, E.O., 1996**: Plasma Luteinizing Hormone (LH) levels in *Trypanosoma Congolense* infected female goats challenged with Gonadotropin Releasing Hormone (GnRH)-agonist and Clonidine. First Pan-African Conference on Biochemistry and Molecular Biology, Nairobi, Kenya, **Abstract: D-10**
23. **Ng'wena, A. G. M., Patel, N. B., Wango, E. O., 1997**: Effects of GnRH agonist and clonidine in goats infected with *Trypanosoma Congolense*. 3<sup>rd</sup> International Conference, Society of Neuroscientist of Africa, **Abstract: 44**

#### **Journal Papers:**

1. **Ng'wena Gideon Magak**, Willis Onyango Okoth, Owiti George Michael, Onyango Kennedy, Owiti O. Thedeus, Bob Awino, Willis Oyieko, Christopher Khayeka-Wandabwa and Odera Wilson **(2019)**: Human and Animal Trypanosomiasis in Lambwe Valley Foci, Kenya– Current Situation and Latent Trypanotolerance. *Asian Journal of Research in Animal and Veterinary Sciences* **3(1): 1-12, 2019; Article no.AJRAVS.47876**
2. E. C. Ngetich, M. Ngeiywa, **G. M. Ng'wena**, and Chemwolo L., **(2019)**: “Haematological Parameters by Age and Sex of Asymptomatic Indigenous Cattle and Sheep Infected with

- Gastrointestinal Parasites in Kerio Valley, Kenya.” *American Journal of Biomedical Research*, vol. 7, no. 2 (2019): 44-50. doi: 10.12691/ajbr-7-2-4.
3. Christopher Khayeka-Wandabwa, Guan Zhou, **Ng'wena Gideon Magak**, Joseph K. Choge, William Kipchirchir Kemei, Judith Alice Makwali, Lucy Wanja Karani, Mutila Phoebe Kisavi, James V. Ndulu, Christopher O. Anjili (2019): Combined chemotherapy manifest less severe immunopathology effects in helminth-protozoa co-morbidity. *Experimental Parasitology* 204 (2019) 107728. *journal homepage: www.elsevier.com/locate/yexpr*
  4. Pamela Amatta Odhiambo, Kennedy Omondi, **Ng'wena Magak** (2019): Wound Dressing: Techniques and Costs at a county hospital. *Ann Afr Surg*. 2019; 16(1):34-38.
  5. Munyikombo Makhacha. **Ng'wena-Magak Gideon**, Mwaniki Dickson (2019): Comparison of Effects of *Allium Sativum* Extracts on Plasma Cholesterol Levels in Hypertensive Rats. *Merit Research Journal of Medicine and Medical Sciences* (ISSN: Vol. 7(9) pp. 2354-323X).
  6. Munyikombo Makhacha, Mwaniki Dickson, **Ng'wena-Magak Gideon** (2019): Hypertension-induced Fibro-myocardial Damages in Rat Heart is reversed by Cumulative Acute Treatment of *Allium Sativum* Extract Compared to Hydrochlorothiazide and Captoten. *Journal of Medical and Biological Science Research*. Vol. 5 (3), pp. ISSN: 2449-1810
  7. Emmily C. Ngetich, **Ng'wena Gideon Magak** and Ngeiywa Moses (2019): Microscopy underestimates the prevalence of trypanosomes' infection in asymptomatic cattle and sheep in a lowland area within the Kenyan rift valley. *Open Journal of Veterinary Medicine*, (9), 136-145
  8. H. M. Muroki, **N. Magak**, M. G. Owiti and K. Onyango (2018): Effects of prescribed physical therapy exercises on blood glucose, metabolic and HbA1C profiles in pre-diabetes at Moi Teaching and Referral Hospital in Uasin Gishu County, Kenya. *East African Medical Journal* Vol. 95 No. 10: 1962-1973.
  9. J. S. Malesi, **N. G. Magak**, M. G. Owiti and K. O. Onyango (2018): Prevalence of metabolic syndrome components among University students in Kenya. *East African Medical Journal* Vol. 95 No. 12:2172-2180
  10. Portia AG, Mwaniki DM, Wanjala PM, **Ng'wena AGM** (2018): Evaluation of *In vivo* and *In vitro* Antioxidant properties of the Ethanol Leaf Extract of *Culcasia falcifolia*. *J Biomed Pharm Sci* 1: 114
  11. A. Gracelyn Portia, D. M. Mwaniki, **A. G. M. Ng'wena** and P. M. Wanjala (2018): Phytochemical and Antiepileptic Activity of the Ethanol Leaf Extracts of *Culcasia falcifolia* in Pentylene tetrazole Induced Seizure in Mice. *Annual Research and Review in Biology* 29(1):1-7
  12. Ian Couper, Sunanda Ray, Duane Blaauw, **Gideon Ng'wena**, Lucy Muchiri, Eren Oyungu, Akinyinka Omigbodun, Imran Morhason-Bello, Charles Ibingira, James Tumwine, Daphney Conco and Sharon Fonn (2018): Curriculum and training needs of mid-level health workers in Africa: a situational review from Kenya, Nigeria, South Africa and Uganda; *BMC Health Services Research* (2018) 18:553
  13. Maina, C. I. and **Ng'wena, G. M.** (2017): Lateral Geniculate Nucleus Histopathology in the Rat Experimental Model of African Trypanosomosis. *Afr. J. Clin. Exper. Microbiol.* 18 (2): 115-119.
  14. Cyrus Ayieko, Bilha S. Ogola, Lyticia Ochola, **Gideon A.M. Ng'wena**, George Ayodo, James S. Hodges, Gregory S. Noland and Chandy C. John (2017): Interferon-responses to *Plasmodium falciparum* vaccine candidate antigens decrease in the absence of malaria transmission. *PeerJ* 5:e2855; DOI10.7717/peerj.2855
  15. Iddah Maulid Ali, Benard Guyah, **Gideon Ng'wena**, Kennedy Mutai and Wilfred Emonyi (2016): Gene Xpert MTB/RIF Specificity and Sensitivity in Tuberculosis Diagnosis using Urine Samples from HIV Patients with Signs of Tuberculosis at The Moi Teaching and Referral Hospital in Western Kenya. [\*Journal of Disease and Global Health\*](#).
  16. 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. [\*Journal of Public Health Research\* 6\(4\): 99-105](#)



17. W. O. Opiyo, **A. G. M. Ng'wena** and A. V. O. Ofulla (2015): Kidney Function Predictors and Associated Serum Electrolytes Changes in HIV out Patients Attending Jaramogi Oginga Odinga Teaching and Referral Hospital, Kisumu County, Kenya. *East African Medical Journal Vol. 92 No. 12 Pg442-453*
18. Iddah. M. Ali, **Gideon A. Ng'wena**, Benard. O. Guyah, Kennedy K. Mutai and Benard. O. Abong'o (2015): Optimal parameters for Gene Xpert MTB/RIF and LAM Strip determine Test for Diagnosis of Tuberculosis using urine from HIV patients at Moi Teaching and Referral Hospital, Kenya. *Journal of Medical Science and Clinical Research Volume 03 Issue 08 6997-7004.*
19. Joan M. Tenge, John K. Lusweti and **Ng'wena G. A. Magak** (2015): Assessment of Drinking water quality from the Malakisi River in western Kenya. *International Journal of Innovative Research and development Vol. 4 No4:154-161.*
20. Joan Mwiluka Tenge, John Kituyi Lusweti and **Gideon Ng'wena Magak** (2015): Municipal wastewater treatment using arrowroots. *American Journal of Environmental Protection. ISSN: 2328-5680 (Print); ISSN: 2328-5699 (Online).*
21. D. M. Mwaniki, K. J. Lagat, W. Oyieko, M. Ndiema, L. K. Chemwolo, M. J. Nyariki, W. O. Opiyo and **M. G. Ng'wena** (2014): Effects of *Catha Edulis'* Leaf Extract on Blood Chemistry and Kidney Tissues in Small East African Male Goats From Rift Valley Province Of Kenya. *East African Medical Journal Vol. 91 No. 6:1-7*
22. Lyticia A. Ochola, Cyrus Ayieko, Lily Kisia, **Ng'wena G. Magak**, Estela Shabani, Collins Ouma and Chandy C. John (2014): Changes in antigen-specific cytokine and chemokine responses to *Plasmodium falciparum* antigens in a highland area of Kenya after prolonged absence of malaria exposure. *Infection and Immunity* doi: 10.1128/IAI.01924-14 23 June 2014.
23. Bartholomew N. Ondigo, James S. Hodges, Kathleen F. Ireland, **Ng'wena G. Magak**, David E. Lanar, Sheetij Dutta, David L. Narum, Gregory S. Park, Ayub V. Ofulla and Chandy C. John (2014): Estimation of recent and long-term malaria transmission in a population by antibody testing to multiple *Plasmodium falciparum* antigens. *J Infect Dis. (2014) doi: 10.1093/infdis/jiu225 First published online: April 15, 2014*
24. Joseph K Choge, **Magak A G Ng'wena**, Willis Akhwale, Julius Koech, Moses M Ngeiywa, Elijah Oyoo Okoth, Fabian Esamai, Odipo Osano, Christopher Khayeka-Wandabwa and Eliningaya J Kweka (2014): Symptomatic malaria diagnosis overestimate malaria prevalence, but underestimate anaemia burdens in children: results of a follow up study in Kenya. *BMC Public Health, 14:332 doi:10.1186/1471-2458-14-332*
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