

PERSONAL PROFILE

February 25, 2021

NAME: NG'ETHE DOMINIC MUHOHO (PhD, MSc BSc)
DATE OF BIRTH: FEBRUARY 19TH, 1947

PROFESSION: MEDICAL PARASITOLOGIST
CURRENT EMPLOYMENT- 2008 - To date
Senior Lecturer: Kenyatta University, School of Health Sciences, Pathology Department
Other duties **Chairman:** School Board of Post graduate studies. School of Health Sciences, KU
Ag-chairman- School of Health Science Journal Committee,
Board Member- Institute of African Studies
Student Mentor for Department of Pathology

IMMEDIATE PREVIOUS EMPLOYMET: 1984-2008-
Kenya Medical Research Institute: (KEMRI)- Depart: Eastern and Southern African Centre of International Parasite Control (ESACIPAC)
Position Title **Principal Research Officer:**

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A. Personal Statement

My objectives as a lecturer are.

- Promotion of medical sciences through academic education at the institutions of higher learning
- Promotion of public health through. research development especially in parasitology and related disciplines.

My research experience in various aspects of health science in KEMRI, where I conducted various aspects of both laboratories based and field based research studies (1983 to 2008) has equipped me with the qualities needed for promotion of research at our universities. I entered KEMRI in the position of a Research Officer and climbed up to Senior Research Officer and finally to Principal Research Officer. I conducted numerous many health research projects as the PI or Co-PI mainly in JICA-KEMRI collaborative research projects related to epidemiology and control of intestinal helminthiasis and schistosomiasis. In my current position as a senior

lecturer at Kenyatta University, I am supervising four MSc and one PhD students. Two of the students await dates for the defence of their work. I joined teaching profession in 2008.

I completed my PhD work in Medical Sciences in Nagasaki University Japan in 2004. This was based on my research work on-*cercarial intensities and distribution in local rivers in Schistosoma haematobium endemic region- with a view of using the technique to assess infection rates in the community*. Thesis work for my MSc (1982 at Howard University, Washington DC) was based on cellular immunology in trypanosomes infections in different nutritional status of the hosts. Other related trainings include immunological techniques and electrophoresis in schistosomiasis and lymphatic filariasis and epidemiology and control of schistosomiasis (Diploma)

My research work has mainly centered on epidemiology and control of schistosomiasis, intestinal helminthiasis and lymphatic filariasis; and School latrine sanitation improvement. Numerous scientific publications appearing in peer journals have emanated from such research work (22). I have also immensely presented scientific papers in various national and international conferences (25). Four manuscripts are in preparation for publication in peer reviewed journals:

1. Pattern of soil transmitted helminths and schistosome infections in Mwea
2. Impact of improvement of school latrines on schoolchildren - community participation approach
3. Effects of Geohelminths and *Schistosoma mansoni* on nutritional status of schoolchildren in Mwea rice irrigation scheme.
4. Studies on Decoy Snails in Kwale, Kenya - A new tool for control of schistosomiasis haematobia

I am also writing a manual and guide to construction of sanitation improved latrines for schools in Mwea Rice Irrigation Scheme. *Health personnel and school headmasters' guide: Ten steps for constructing Sanitary Latrine*

Positions and Employment

Sept. 2008 – Present:

Senior Lecturer (Parasitology), Dept. of Pathology in School of Health Sciences, Kenyatta University Nairobi, Kenya.

Other responsibilities include: Chairman- School's Board of Post graduate Studies and Ag-chairman of the committee charged with duties to initiate peer reviewed health science journal (Registered as -The East and Central Africa Medical Journal). I am also the Departmental students mentor

Sept. 1983 – 2008:

Kenya Medical Research Institute Nairobi (KEMRI) Nairobi. Entry point was the position of Research Officer, went through ranks to Senior to Principal Research Officer. Other roles were Kenyan coordinator of JICA/KEMRI research projects in the epidemiology and control of parasitic diseases. Coordinator for School latrines sanitation improvement in Mwea (2003 – 2007)

Honors and Awards

- 2004** Nagasaki University Institute of Tropical Medicine Japan: PhD course in Medical Science.
- 1989** Danish Bilharziasis laboratory Denmark: Course in epidemiology and control of schistosomiasis.
- 1986** Nagasaki University Institute of Tropical Medicine Japan. Course in: Basic Immunological and Electrophoresis techniques in Experimental Schistosomiasis and Filariasis

Research Grants: Collaboration with Nagasaki University, Institute of Tropical Medicine (KEMRI): Research studies on Schistosomiasis in Rusinga Island, Kenya

SUMMARY **BIOSKETCH**

EDUCATIONAL PhD, MSc, BSc,

PROFESSIONAL Medical Parasitologist.

OTHER SPECIALISED TRAINING:

- **School-based Parasite Control: Epidemiology and interventions. -Mahidol University, Thailand**
- **Epidemiology and Control of Schistosomiasis-Danish Bilharziasis Laboratory Institute, Demark**

SPECIALIZATION: -

Medical Research on Schistosomiasis and Intestinal helminths:

- **Disease epidemiology and control**
- **Environmental sanitation / hygiene improvement**
- **Enhancement of safety of local water and Hygiene education**

PLACE OF WORK:

Current: **Lecturer.** Kenyatta University, School of Health Sciences
Senior Lecturer, Teaching Medical Parasitology to Medical student, BSc-Nursing, Public Health and BSc-Medical Laboratory Technology students.

Thesis supervision and guidance:

Kangethe Stanley Kamwati N0. P97/13216/09 PhD Thesis
Njiru JM- PhD P97/25772/; MPH. 57/13137/09 Terer,CC; P57/12169/09,
Gachogu N.AM; P57/13559/09, Njeru NJ; 15/5722/2003; Aballa
PI50/21572/2010 A0 MLS, Angel Mungai MPH.

Thesis Internal Examiner: PhD-I84/10733/06 Muiruri S Kinyanjui:

MPH. 157/0L/3450/04- Mwatu, AK; 157/12686/05 Maina, S. Nyairo, Osiemo SA MPH, Njuguna KP MPH, Ndungu, DW. MPH 157/12687/05, Mwangi JK 157/12653/05

Thesis guidance: PhD- I84/10733/06 Muiruri S Kinyanjui.
MPH. 157/3777/04 Nguri, AB;

Other duties Chairman: School Board of Post graduate studies.
School of Health Sciences, KU
Ag.chairman. School of Health Science Journal committee (East and Central Africa Medical Journal)

Immediate Previous Employer

Kenya Medical Research Institute Nairobi.
Depart. Eastern & Southern Africa Centre of International Parasite Control Centre (ESACIPAC)

PROGRAMME: Epidemiology and Control of Schistosomiasis and Intestinal helminths (School-based parasite Control Programme)

RESPONSIBILITIES/DUTIES

The Head of Parasitology-(ESACIPAC)
Project research Development, planning, writing up and results publications, Guiding students undertaking PhD and Master studies.

RESEARCH COLLABORATIONS:

Nagasaki University Institute of Tropical Medicine (KEMRI)
Project Title: *Transmission of schistosomiasis in Rusinga Island in Lake Victoria, Kenya: Influence of water environment (Water course way factor) in the infection in vector snails and the community.*

OBJECTIVES:

- My objectives as a lecturer are;
- Promotion of medical sciences through academic education at the institutions of higher learning
 - Promotion of public health through. research development especially in parasitological diseases and resrelated disciplines.

Selected publications:

1. Jane. M. N.Gitau^{1*} **Ng'ethe Muhoho**² and Ephantus Kabiru³ (2016) *Distribution pattern of female genital schistosomiasis in women of reproductive age in Kwale county Kenya Journal of Applied Life Sciences International* 5(1): 1-8, 2016; Article no.JALSI.25053
2. Njiru. M., N. **Muhoho**¹, J. A. Simbauni¹ and E. Kabiru¹ (2016) *Effects of Soil- Transmitted Helminths and Schistosoma Species on Nutritional Status of Children in Mwea Irrigation Scheme, Kenya.* JALSI, 5(1): 1-8, 2016; Article no.JALSI.25053

3. Okoth AA, Muturi M, **Muhoho** ND: (2014;) *Tungiasis in Western Kenya: Identifying targets for interventions in Otwenya Location in Maseno Division, East and Central Africa Medical Journal* 2014; 1(1): i
4. Angela W. Maina, Ngethe D. **Muhoho**, John N. Muriuki (2014) *Household solid waste management practices and health implications among urban residents in Ruiru municipality, Kiambu county, Kenya. International Journal of Innovative Research & Studies. www.ijirs.co* vol 3 issue 7
5. **Muhoho**.N, Kaburi J, Kihara J, H. et al (2014). *Patterns of Schistosoma mansoni and soil-transmitted helminth infections among school children and the related transmission risk factors in the rice irrigation area and the adjoining region in Mwea, Central Kenya. East and Central African Medical Journal*, 1.(1); 11 – 17
6. **Muhoho** N, Mitsui Y, Mwandawiro C. **Impact of sanitation improved school latrine on latrine-related practices, perceptions attitude and occurrence of diarrhoea in children in Mwea Division, Kirinyaga District, Central Kenya** *East and Central Africa Medical Journal* 2014; 1(1): 23-28
7. Carolyn C. Terer, Amaya L. Bustinduy, Ruth V. Magtanong, **Ng'ethe Muhoho**, Peter L. Mungai, Eric M. Muchiri, Uriel Kitron, Charles H. King, and Francis M. Mutuku (2013) *Evaluation of the health-related quality of life of children in Schistosoma haematobium-endemic communities in Kenya: a cross-sectional study PLOS Neglected Tropical Diseases / www.plosntds.org* 12 March 2013 | Volume 7 | Issue 3 | e2106
8. Kihara J. H1, 2, **Muhoho** N et al (2012.) *A four year follow up of school children after mass treatment for Schistosomiasis and Soil Transmitted Helminths in Mwea, Central Kenya. African Journal of Health Sciences, Volume 23, Number 4, October-December 2012*
9. Watanabe K. **Muhoho** ND, Mutua WR, Kiliku FM, Awazawa T, Moju K, Aoki, Y. 2011 *Assessment of voiding functions in inhabitants infected with Schistosoma haematobium. Journal of Tropical Pediatrics*, 57 (4) 263-8
10. Njomo DW, Tomono N, **Muhoho** ND, Mitsui Y, Kaburi CJ, Mwandawiro CS. 2010 *The adverse effects of albendazole and Praziquantel in mass drug administration by trained school teachers. African Journal of Health Sciences* 16; 10-14
11. Abe M, **Muhoho** ND, Sunahara T, Moji K, Yamamoto T and Aoki Y. 2009 *Effect of communal piped water supply on pattern of water use and transmission of schistosomiasis haematobia in an endemic area of Kenya. Tropical Medicine and Health* 37(2) 2009
12. Kihara JH, **Muhoho** N, Njomo D, Mwobobia IK, Josyline K, Mitsui Y, Awazawa T, Amao T, Mwandawiro C., 2007 *Drug efficacy of praziquantel and albendazole in school children in Mwea Division, Central Kenya. Acta Tropica* 102 165 – 171
13. Aoki Y., Sato K., **Muhoho** N., Noda S., Kimura E. 2003. *Cercariometry for detection of transmission sites for schistosomiasis. Parasitology International* 52, 403-408.
14. **Muhoho** N., Katsumata T., Kimura E., Habe S., Aoki Y. 1997. *Cercariae density in the rivers of an endemic area of Schistosoma haematobium. American Journal of Tropical Medicine & Hygiene* 57(2) 162-167.
15. **Muhoho** N., Mitsui Y., Mwandawiro C. 2005. *Improved sanitation in school latrines: Community oriented approach in Mwea, Kenya, in 26th African Health Sciences Congress, Ain Soukhan, Egypt. (94) 37pp*
16. **Muhoho** N., Makiya M., Aoki Y. 2005. *Influence of dissolved oxygen in vertical distribution of Bulinus globosus in Schistosoma haematobium endemic area in Coast Province Kenya, in 26th African Health Sciences Congress, Ain Soukhan, Egypt. 37pp*

17. Kihara JH., **Muhoho N.**, Mitsui Y., Tomono T., Muthami N., Amano T., Mwadawiro C. 2005. *Control of Schistosomiasis and Soil-transmitted Helminths in Mwea irrigation scheme, Central Kenya using a school-based de-worming approach, in 26th African Health Sciences Congress, Ain Soukhan, Egypt. (49) 18pp*