

Shabani Kililwa Muller

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SUMMARY

A dedicated Laboratory Scientist/Technologist who has gained 10 years hands-on experience on diagnosis of infectious diseases including malaria, HIV and neglected zoonotic diseases. Focused on laboratory management, Molecular techniques and One Health Approaches. Has excellent skill on laboratory management quality control and quality assurance, has good managerial skills and ability to do multiple task under pressure.

WORK EXPERIENCE

09/2018 - 11/2020

Laboratory Technical officer, PATH (worked at USAID Boresha AFya project; a consortium of three international NGOs including PATH, Jhpiego and Engender Health)

Achievements:

- Provide technical support on malaria diagnosis to the Boresha Afya Project team, with focus on malaria diagnostics both microscopy and mRDT in Kigoma region.
- Participated in conducting assessments, and in the design, training, testing, implementation, monitoring and evaluation of laboratory and point-of-care diagnostic services and systems.
- Participated in stakeholder technical working groups and meetings that continuously advocate for evidence-based standardization and harmonization of laboratory tests, methods and equipment within the regions.
- Provided frequent updates – both written and oral to Malaria Technical advisor.
- Coordinated and facilitate trainings for health 208 staff on mRDT use, microscopy and quality assurance at all levels of the health care provision, including overseeing basic data processing.
- Oriented and trained supervisors on external and internal quality assurance methods to support malaria diagnostics.
- Established linkages with all relevant stakeholders (RCHMTs) and other implementing partners and collaborate as necessary to facilitate effective and efficient implementation of Boresha Afya Project activities in the targeted area
- Participated in the preparation of annual work plans, regional and district plans.

10/2015-07/2018

Laboratory Scientist (immunology Lab), London School of Hygiene and Tropical Medicine Field office of Mwanza (MITU)

- Coordinated field and laboratory activities on human papilloma and HIV, virus vaccine trial in Mwanza, Tanzania.
- Managed daily operations of the research and lab technical staff.
- Developed and implemented study protocols, and maintained the lab's standard operating procedures.
- Oversaw purchase of supplies and maintenance of equipment and ensures laboratory's compliance with hospital and governmental regulations.
- Performed highly specialized laboratory experiments and specimen preparation including PCR and HIV testing assays.
- Assisted lab personnel in the use of specialized laboratory equipment and analysis of the data generated.
- Prepared and monitors laboratory and grant budgets, maintenance of equipment and ensures laboratory's compliance with hospital and governmental regulations.
- Used LIMS for archiving of samples.

09/2014-09/2015

Junior Research Fellow at National Institute of Veterinary Epidemiology and Disease informatics. (NIVEDI, INDIA)

Achievements:

- Conducted molecular epidemiology of leptospirosis in livestock located in Bangalore, India
- Developed recombinant proteins for rapid detection of bacterial diseases including leptospirosis and brucellosis.
- Performed gene cloning, gene expression and cell culture
- Maintained lab quality assurance and control
- Used LIMS for storage and archiving of samples in the lab.

07/2007-12/2012

Research Assistant (Microbiology Lab) at National Institute of Medical Research in collaboration with NIH-USA (Mother Offspring Malaria Study project).

Achievements:

- Managed microbiology laboratory including lab inventories and archives
- Assisted at collecting clinical laboratory research data on malaria, HIV, malaria cell culture and cryopreservation.
- Assisted purchased of laboratory logistics in a malaria research based project run by National Institute for Medical Research (NIMR) in collaboration with **National Institute of Health-USA** at Morogoro Regional Hospital.
- Isolated PBMC cells with high viability and recovery for studying efficacy of malaria vaccine.
- Performed flow cytometry and protein binding assays, Zinc protoporphyrin assays.
- Contributed at improving health of under-five children living
- Used LIMS for receiving and archiving samples in the lab

2006-2007

Malaria surveillance coordinator at Urban malaria Control Program Dar es salaam

- Provide technical support to the M& E Team on monitoring and evaluation of the project,
- Trapped mosquito larvae using scoopers.
- Conducted mosquito habitat identification in dar es salaam
- Used larvicide BS and BTI to kill mosquito larvae
- Supervised a team of 25 Community Own Resource Person.

EDUCATION

2022- To date: PhD student in natural Resources, University of Nebraska Lincoln, USA

2012 - 2015

Masters of science degree, One Health Molecular Biology Sokoine University of Agriculture. (has 5 publications in peer review journals).

2003 - 2006

Bachelor of science degree, Biology, University of Dar es salaam

2008, 2009, 2016, 2017: **Certified as Good Clinical Lab Practices competent**

ADDITIONAL SKILLS

- Resourceful and skilled at collecting, analysing and using data to recommend, make and communicate decisions of a technical nature for both technical and lay audiences.
- Proficiency in one of the African Union working languages: English, French and Kiswahili
- Excellent computer skills: Microsoft Word, Excel, Access, SharePoint Teams, Tableau and other statically software including SPSS, EpInfo and online digital platform.
- Management skills: strong leadership and organisation skills, report writing and ability to provide clear and concise reports to leadership.
- High Problem solving skills: can use scientific method to collaborate and solve challenges scientifically.
- Excellent verbal, written and presentation skills in English, (Swahili: native language)
- Personal Abilities : Very pro-active and solution oriented; has good analytical skills; has good ability to use clear concise language in correspondence. Can work in multicultural environment; very adaptive, resilient and flexible.
- Leadership Competencies: Strategic Insight; mentorship skills, Risk management.
- Fast learning ability; can learn new skills in a short time
- Has high organisation skills, can manage multiple task and resistant to stress.

**SELECTED
PUBLICATIONS**

Shabani K. Muller, Juma Ng'akola, Zephani Nyakiha, Godfrey Smart, Tesha Goodluck, Jasmine Chadewa, Agnes Kosia, Zahra Mkomwa, Abdallah Lusasi, Dustana Bishanga, Rita Noronha, Lusekelo Njonge, Ally Mohamed, Gaudensia Tibajiuka, Chonge Kitojo, and Erik Reaves; "Joint Efforts to Improve Malaria Control in Three Refugee Camps in Kigoma, Tanzania: Successes, Challenges and Lessons Learned," *Journal of Tropical Health Matters* (2019). Presented at **ASTMH Conference, Maryland-USA, 2019**

Shabani K. Muller, JustineA. Assenga, LucasE Matemba, Gerald Misinzo, Rudovick R. Kazwala: Human leptospirosis in Tanzania: Sequencing and Phylogenetic analysis confirm that pathogenic *Leptospira* species circulate among Agro-pastoralists living in Katavi-Rukwa Ecosystem. *BMC Journal infectious diseases* (2016) 16:273 DOI 10.1186/s12879-016-1588

Justine A. Assenga, Lucac E. Matemba, **Shabani K, Muller**, Joseph Malakalinga, Gineton J. Muhamphy, Rudovick Kazwala: Quantitative analysis of risk factors associated with brucellosis in livestock in the Katavi-Rukwa ecosystem, Tanzania (*Trop Anim Health Prod* DOI 10.1007/s11250-015-0951-z)

Membership

1. America Society of Tropical Medicine and Hygiene (<https://www.astmh.org/>)
2. BMC Journal of infectious diseases: <https://bmcinfectdis.biomedcentral.com/>