

## CURRICULUM VITAE

### PERSONAL DETAILS

Name: Saraphine Nekesa Nebere  
Nationality: Kenyan  
Gender: Female  
Religion: Christian  
Marital Status: Married  
Official Languages: Kiswahili and English  
Contacts:  
    *Address:* P.O. Box 872-50200, Bungoma, Kenya  
    *Cell phone:* [saraphinebere@gmail.com](mailto:saraphinebere@gmail.com)  
    *Email:*

### ACADEMIC QUALIFICATIONS

**Jan 2020-Date:** PhD (Medical Biochemistry), Masinde Muliro University of Science and Technology (Ongoing)

**2013-2015:** MSc. (Medical Biochemistry), Kenyatta University.

**Thesis:** *“Interferon-Gamma, Interleukin-10 and Adiponectin Levels as Disease Progression Markers in HIV-1 and Tuberculosis Co-Infected Substance Users from Mombasa, Kenya”*

**Course work:** Advanced Laboratory Techniques, Biochemical Pathology, Laboratory Data Management, Molecular Basis of Health, Biostatistics and Research Methods, Biochemistry of Protozoans, Molecular Aspects of Disease, Biochemistry of Antimicrobial Action, Genetic and Developmental Aspects of Disease.

**2005-2009:** BSc. (Biochemistry and Zoology), Egerton University

**2000-2003:** KCSE, Nangina Girls' High School, Busia

**1991-1999:** KCPE, Kingandole Primary School, Busia

### WORK EXPERIENCE

**February 2022-Date:** Adjunct Tutorial Fellow, Department of Medical Biochemistry, School of Medicine Masinde Muliro University of Science and Technology

#### *Duties and Responsibilities*

- MBS 201: Medical Biochemistry, Bachelor of Medicine and Bachelor of Surgery, Year 2
- MBS 101: Medical Biochemistry, Bachelor of Medicine and Bachelor of Surgery, Year 1

**May 2021-December 2021:** Part-time lecturer, Department of community Health and Extension, School of Nursing, Masinde Muliro University of Science and Technology.

***Duties and Responsibilities***

- NCN 114: Medical Biochemistry, Bachelor of Nursing, Year 1
- NCO 114: Fundamentals of Medical Biochemistry, Bachelor of Science in Occupational Health

**January 2020- December 2021:** Part-time Tutorial fellow Masinde Muliro University of Science and Technology, School of Medicine, Department of Medical Biochemistry.

***Responsibilities, Duties and Achievements***

**Teaching Medical Biochemistry**

- Preparing lecture notes
- Facilitating lectures
- Setting and marking examination

**June 2015-Dec 2016:** Part-time Lecturer, Royal College of Science and Technology, Ruiru

***Responsibilities, Duties and Achievements***

**Teaching Diploma Pharmaceutical Technology**

- PHT 312 Pharmacology and therapeutics
- PCG 211 Pharmacognosy
- CHEM 105 Chemistry
- BIC 104 Biochemistry
- MIB103 Microbiology

**August-Dec 2014:** Exam Invigilator, Mount Kenya University, Main Campus

***Responsibilities, Duties and achievements***

- Setting up exam venues
- Invigilating exams

**August 2012- Dec 2014:** Research Assistant

***“HIV/TB co-infection amongst injection drug users from Mombasa, Kenya”.*** Project funded by NACOSTI in collaboration with Kenyatta University, School of Public Health.

***Responsibilities, Duties and Achievements***

- Recruitment of study participants (drug and substance users)
- Data collection: HIV diagnosis, TB screening

- Laboratory assays: Immunology (ELISA, flow cytometry, HIV diagnosis), Molecular and genetic (RT-PCR), Hematology (Complete blood count), Microbiology (Bacterial culture and TB diagnosis).
- Statistical data analyses (Ms Excel, SPSS Vs 22, Graph pad prism Vs 6)
- Writing of manuscripts
- Presentation of research findings in conferences

**2010-2012:** Volunteer Teacher, Bukhalalire Boys High School, Busia

***Responsibilities, Duties and Achievements***

- Teaching Biology and chemistry from Form I to IV
- Preparing reagents and specimens for biology and chemistry practicals
- Class teacher Form I

**2008:** Field attachment student, Kenya Agricultural Research Institute (KARI), Njoro

***Responsibilities, Duties and achievements***

- Laboratory assays: Molecular (**DNA extraction and PCR**), Biotechnology (**plant tissue culture**)
- Research on prevention of wheat rust

**RESEARCH INTERESTS**

HIV and TB pathogenesis, Immunology, Molecular Biology, Infectious diseases, Analytical Biochemistry

**COMPUTER SKILLS**

- Microsoft office (MS word, excel, power point, access and internet explorer)
- Statistical programs (SPSS version 19.0, Graph pad-prism version 6).

**SEMINARS/CONFERENCES/WORKSHOPS**

***Paper presentation at Academic/professional conferences***

1. **Nebere** S.N, Budambula V.,Karanja J. K., Ngeranwa J. N.,Juma G.,Ndombi E. M.,Kiboi N. G., Ahmed A. A.,Choge J. K., and Were T. (2015). Plasma Adiponectin Levels in HIV-1 and TB Mono- and Co-Infected Non-Injection Drug Users from Coastal Kenya. *Oral presentation:* 5th Annual East African Health and Scientific Conference, Kampala, Uganda. 25-27 March 2015, Abstract No. 11.
2. Kiboi N. Budambula V., Mburu D. N.,Karanja J. K., **Nebere** S. N, Juma J., Ahmed A. A., Kilongosi M., Musumba F. O., Choge J. K. and Were T. (2015). Circulating Interferon-Gamma and Interleukin-10 Levels in HIV-1 and TB Mono- and Co-Infected Injection Drug Users from Mombasa, Kenya. *Oral presentation:* 5th Annual East African Health and Scientific Conference, Kampala, Uganda. 25-27 March 2015, Abstract No. 23.

3. **Nebere S. N.**, BudambulaV., KaranjaJ.K., NgeranwaJ.N., JumaG., NdombiE.M., AhmedA.A., and WereT. (2014). Plasma Interferon-gamma and Interleukin-10 Levels in HIV and TB Mono-and Co-Infected Substance Users from Coastal, Kenya. *Poster presentation: 6<sup>th</sup> Federation of African Immunological Societies (FAIS) conference, Nairobi, Kenya. 1-4 December 2014, Abstract No. 44.*
4. Kiboi N., **Nebere S.**, Were T., Juma G. (2015). Plasma adiponectin levels in HIV-1 and tuberculosis mono and co-infected injection drug users from Mombasa, Kenya. *Oral presentation: 1<sup>st</sup> Annual conference of HIV Clinicians Society of Kenya, Nairobi, Kenya. 13-16 September 2015. Abstract No. 52*

## **RESEARCH AND PUBLICATIONS**

### **a) Articles in refereed journals**

1. Kiboi N. G., **Nebere S. N.** and Karanja J. K. (2016). Immunological Interactions of Tuberculosis with Drugs and Substance Use : A Systematic Review and Update. *Journal of Pulmonary and Respiratory Medicine.* 6 : 326.
2. Karanja J. K.,Kiboi N. G., **Nebere S. N.**and Achieng H. O.(2016). Highly Active Antiretroviral Therapy and Anti-tuberculosis Drug Interactions with Associated Clinical Implications: A Review. *Journal of Drug Metabolism and Toxicology.*7(2) :1000204.
3. Kiboi N. G., Karanja J. K. and **Nebere S. N.** Adiponectin Secretion in HIV-infected Subjects with or without Antiretroviral Treatment and Illicit Substance Use: Clinical Review and Update

## **COMMUNITY SERVICE**

- Treasurer of St. Elizabeth, Sisokhe Sub-Parish Catholic Church
- Participation in Educational talks
- Participation in clean-up exercises

## **REFEREES**

### **Dr. Anthony Sifuna**

Chairman, Department of Medical Biochemistry, School of Medicine  
Masinde Muliro University of Science and Technology  
P.O. Box 190-50100, Kakamega  
Email: *asifuna@mmust.ac.ke*  
Phone:

### **Dr. Gerald Juma**

Lecturer, Department of Biochemistry, University of Nairobi  
Box 30197-00100, Nairobi  
Email: *gjuma@uonbi.ac.ke*  
Phone:

### **Prof. Tom Were**

Senior Lecturer, Department of Medical Physiology, School of Medicine  
Masinde Muliro University of Science and Technology  
P.O. Box 190-50100, Kakamega  
Email: *mugogwe@yahoo.com*  
Phone: