

Dr. George W. Khaukha; C.V., To Date 2019.



Nationality

Ugandan

Contact Address

P.O. Box 2535, Mbale, Uganda (Permanent)

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Academic and Professional Qualifications:

Ph.D. (Biochemistry, 30/11/2005, Nairobi University/Belford University, Kenya/ USA): Project: Lipotoxicity-in vitro study.

M.Sc. (Biochemistry, 1984, University of Nairobi, Kenya)
Thesis: *Studies on T. Evansi-Derived Haemolytic Activity.*

B.Sc. (Chemistry and Biochemistry, 1975, Makerere University, Kampala, Uganda)

A.I.B.M.S. (advanced diploma in medical laboratory Sciences: Clinical Biochemistry specialty, 1970, UK)

Certificate in Medical Laboratory Sciences: study subjects: Biochemistry, Bacteriology, Histology and Haematology.

Certificate in Modern Teaching Methodology offered by WHO, 1975, Lagos, Nigeria

WORK EXPERIENCE :

2016 – 2019 (To date)

Part-Time Lecturer and Ag-HOD, Department of Biochemistry and Molecular Biology; Faculty of Health Sciences, Mbale Campus, Busitema University.

Duties:

1. Teaching of biochemistry to MBchB undergraduates and post graduates at the Faculty of Health Sciences, Busitema University, Mbale Campus.
2. Teaching and Coordinator of Environmental and Occupational Health Course to Year 5 MBchB students.
3. I participate as a supervisor in the Master of Public Health post graduate program.

I successfully supervised one MPH student student: **Mr. Sydney Nsubuga** who has now been awarded a Masters Degree in Public Health by Busitema University.

Currently I am supervising another Masters student, *Mr. Okurut Alfred*, for the award of a Masters Degree in Public Health by Busitema University.

2012 – 2014: **College Superintendent: College of Arts and Sciences:**
University of Nizwa, Sultanate of Oman.

Duties:

Administrative consultancy and management of overall teaching laboratories and Health and Safety at workplace.

1992 – 2012: **Laboratory Superintendent / Chief Biomedical Scientist:**
Department of Biochemistry, College of Medicine, Sultan Qaboos University, Sultanate of Oman.

Duties:

Establishment of biochemistry teaching labs for 1st, 2nd, 3rd, 4th and 5th year Medical students

Supervision of biochemistry teaching labs for Medical Students including grading of their laboratory reports.

Handle all Orders: all scientific equipment, chemicals and Consumables for the running of the Biochemistry Department. Assists HOD in annual departmental budget plans and estimates.

Data Base Maintenance: All departmental equipment and all consumables for teaching and research

Given lectures in biochemistry to:

BSc Biomedical Laboratory Science Program

1. Enzymology, Spectroscopy, and Proteins
2. Phlebotomy and Biological Sampling techniques.
3. Instrumentations and principles of application.
4. Supervised BSc MLS student's final research project (2000)

MSc Program. Given lectures in the following areas:

1. Instrumentations and principles of application.
2. Sub-cellular Fractionation.

MD (Medical semester 8 undergraduate program)

1. Clinical Methods (Clinical Biochemistry); theory and practical testing-Side Room Testing

Research activity :

1. Pathophysiology of elevated blood Free Fatty acids.
 2. Vaccine against Trypanosomiasis
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Extra Supervisory responsibilities:

I supervised the following students, 2000 to 2002:

Zakia Al-Juma (BSc Biomedical laboratory Science dissertation, Clinical Biochemistry).

Hilal Al-Azri (6th year MD student assistant).

Salema (6th year MD student assistant).

Extra duties carried out (continued):

- **Deputy Chairman**, Biosafety and Security Committee, College of Medicine of Medicine and Health Sciences, SQU
- Organization of the College of Medicine Central Store and training and supervision of the College Store Keeper.
- In the process of preparing a Handbook on Biosafety and Security for the College of Medicine in liaison with the College Safety Sub-Committee Chairman. A Departmental Biosafety Handbook was completed in June 2007)

Conferences / Workshops attended:

1. International Conference on Biosafety organized by Oman Ministry Environment and Water Resources, February 21-23, 2005. I presented a poster on Chemical and Biological Hazards.
2. Occupational Health Conference, organized by Petroleum Development Oman, December 11-13, 2006.
3. Organized and gave 60% of presentations at on Health and Environment Safety Workshop of 150 attendants held at the University of Nizwa 14-15 January 2014.

Research orientation:

*Studies in the pathophysiology of cytotoxic biomolecules.
Vaccine development against T. evansi Trypanosomiasis.*

Progress so far:

I am in the process of writing up a paper on the *cytotoxicity of elevated blood free fatty acids*. The work on this has been done here in the Department of Biochemistry, College of Medicine, Sultan Qaboos University. From this work a research project was designed for the BSc MLS student I supervised in 2000. Also one MD student assistant, Salema, was employed and trained in the methodologies used in this research under my supervision.

Regarding the vaccine development against T. evansi Trypanosomiasis, the rationale and strategies has been written and two academic staff members (one, an associate professor from Microbiology Department and the other, an assistant professor from the faculty of Agriculture) are keen to join as co-investigators. My problem has been lack of time start.

1985 – 1992:

Chief Biomedical Scientist /Teaching Assistant,
Department of Biochemistry, College of Medicine, Kuwait
University. **Duties:** Supervision of biochemistry teaching
Labs for Medical Students including grading of their

laboratory reports.

Supervisor, laboratory scientific staff (M.Sc. and B.Sc. graduates)

Tissue Culture Lab: Management of tissue culture Lab
Propagation of cell culture lines; teaching other staff
how to propagate and maintain cell culture lines

1976-1985:

Research Associate, Department of Biochemistry, ILRAD (International Laboratory for Research on Animal Diseases), Nairobi, Kenya.

Duties: biochemical research on trypanosome haemolytic and cytotoxic factors (characterization and identification)

1975 – 1976

Research officer, Uganda Research Institute, Ministry of Health, Republic of Uganda. **Activity:** Vitamin C and Alpha Foeto protein levels in Blood samples of Burkitt's Lymphoma tumour patients

Demonstrator, Department of Biochemistry, Makerere University, Kampala, Uganda

1970 – 1976

Medical Laboratory Scientist / Medical Laboratory Science

Tutor, Department of Clinical Chemistry, Mulago Hospital, Ministry of Health, Republic of Uganda.

Personal ID in the Ministry: P 9246.

Examiner / External Examiner and Board Member of the East African Inter-University Committee for the East African Diploma in Medical Laboratory Sciences

PUBLICATIONS

1. **George W Khaukha and R. Ramasamy**, 1981. Haemolytic Activity of Trypanosomes. East African Medical Journal, vol. 58, no. 12, Dec. 1981
2. **George W Khaukha, Onesmo ole-MoiYoi, J.D. Lonsdale-Eccles**. Trypanosome Phospholipases (an abstract) presented at the U.S.A. Scientific Federation Proceedings. 1984
3. **E.M. Eugui, D.L. Emery, G. Buscher and G.W. Khaukha**. 1983. Specific and non-specific Cellular Immune Response to Theileria c. Parva in cattle, in Advances in The Control of Theileriosis (immunology). **May 1991.**
4. **George W Khaukha, Mehmet Simsek** 2007. Fatty Acids are Haemolytic to Human Erythrocytes (Submitted to Medical Principles and Practice, Kuwait University Medical Journal, September 2007).

PROFESSIONAL ACHIEVEMENTS

1. Curriculum / syllabus development (clinical chemistry) and one of the founders: School of Medical Laboratory Technology (East Africa), 1972 – 1973
2. Sorted out the causes of high failure rate in clinical chemistry diploma final examinations in the East African Diploma in Medical Laboratory Sciences, 1974-1976
3. Designed and commissioned a Tissue Culture Laboratory of multi-disciplinary purpose for the Faculty of Medicine, Kuwait University, Kuwait, 1987.

4. Designed and commissioned Biochemistry experiments for Biochemistry teaching labs, Department of Biochemistry, College of Medicine, Sultan Qaboos University, Sultanate of Oman, 1993
5. Prepared Clinical Chemistry syllabus for the B.Sc. MLS degree course at the College of Medicine, Sultan Qaboos University, Sultanate Oman, 1995

REFERENCES

1. Professor Riad Bayoumi, HOD, Biochemistry Department, College of Medicine and Health Sciences, Sultan Qaboos University, P.O. Box 35 Al Khod, Muscat 123, Sultanate of Oman (email address: riadbayoumi@gmail.com)
2. Professor Khalid Gumaa, 14 Avenue Mansions, Finchley Road, London NW3 7AU, England (email address: kgumaa@yahoo.com).

Personal character:

“Peaceful, industrious, spiritual and socially harmonious.”