

CURRICULUM VITAE

OBAKIRO SAMUEL BAKER

BSc (MAK), MSc. Pharmacology (MAK), PGD. Education (KIU), PhD Candidate (MOI)

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PERSONAL STATEMENT

Samuel Baker Obakiro is a highly self-motivated, hardworking, committed, innovative, and responsible pharmacologist with excellent training and experience in basic, clinical and experimental Pharmacology. I enjoy undertaking new challenges and remain confident seeing them through. I am quick to learn, adapt to new situations and work professionally and effectively as a team player. I am able to work well under all conditions to achieve set targets, accomplish tasks on time, relate well with other people and exhibit utmost honesty and integrity.

I have the ability to think originally and work competently as an individual with minimum supervision. I find it highly enjoying and rewarding when working within a busy, multi-disciplined team, with senior people where my place within the extended team becomes invaluable and grows to be that of support, trust and respect. I look forward to becoming an independent researcher in Pharmacology, publishing in internationally recognizable journals and presenting on local and international conferences.

I have five (5) years' experience of lecturing Pharmacology at University gained from Busitema University Faculty of Health Sciences, Gulu University Faculty of Medicine and Kampala International University School of Pharmacy. Throughout my Pharmacology career, I have served as a teaching assistant (graduate trainee), assistant lecturer, research assistant, coordinator pharmacology laboratory, chairperson journal club, teaching and learning coordinator, member of curriculum review committee and acting head of department.

CAREER GOAL AND OBJECTIVE

To become a leading researcher in Pharmacology in Africa so as to contribute towards improved health care and community transformation.

EDUCATION BACKGROUND

Period	Institution	Qualification
2018 - Date	Moi University	PhD Candidate
2013-2014	Kampala International University	Post Graduate Diploma in Education
2011-2014	Makerere University	MSc. Pharmacology
2006-2009	Makerere University	BSc. (Chemistry)
2004-2005	Kasawo SSS	Uganda Advanced Certificate of Education
2000-2003	Royal College Bunga	Uganda Certificate of Education
1990-1999	Ndese SDA P/S	Primary Leaving Examination

PROFESSIONAL DEVELOPMENT COURSES COMPLETED

- **LC – MS Training: A hands on Approach;** 1st - 5th July 2019; Jomo Kenyatta University of Agriculture and Technology, Department of Chemistry, Kenya.
- **Scientific Writing, communication and Publication;** 5th-7th June 2019; Busitema University Faculty of Health Sciences, Uganda.
- **Scientific and Grant Proposal writing workshop;** 7th - 9th June 2017; Kampala International University (KIU), Directorate of research and post graduate studies, Uganda
- **Responsible conduct of research training;** 18th - 22nd April 2016; Mbarara University of science and technology (MUST) Faculty of Medicine, Uganda.
- **Public administration and management course;** 18th august to 18th September 2015; Kampala International University (KIU), Faculty of business and management, Uganda
- **Administrative law course;** 18th May to 18th June 2015; Kampala International University (KIU), Faculty of business and management, Uganda
- **PK/PD modelling and its application in infectious diseases training;** 21st -25th July 2014; Makerere University College of Health sciences (MAKCHS), Uganda
- **Good laboratory practices (GLP) training;** 14st -18th July 2014; Makerere University College of Health Science, (MAKCHS), Uganda
- **Scholarly writing and communication skills;** 19th -22nd March 2013; Makerere University, University Library, Uganda.

- **New methods of teaching sciences and mathematics in secondary schools training;** 24th -28th January 2011; Ministry of education and sports, Republic of Uganda.
- **Use, repair and building of Science Equipment workshop;** 24th -27th August 2009; Kings College Buddo, Uganda
- **Computer course in Microsoft word, Excel and Power point training;** 25th February to 25th April 2008; Eastern Computer Centre Jinja, Uganda

EMPLOYMENT EXPERIENCE

Period	Position	Institution
2018 to Date	Lecturer (Pharmacology)	Busitema University Faculty of Health Sciences.
2015 to 2017	Assistant lecturer (Pharmacology)	Kampala International University School of Pharmacy
2013 to 2014	Teaching assistant	Kampala International University school of Biomedical Sciences

RESPONSIBILITY HELD WHILE AT INSTITUTION

Date	Institution	Responsibility
2018 – Date	Busitema University Faculty of Health Sciences	Acting. Head of Pharmacology Department
2015-2017	KIU School of Pharmacy	Pharmacology Coordinator of Teaching and Learning, chairperson Journal club, coordinator Pharmacology laboratory
2011-2013	Makerere University	Pharmacology Class Leader
2008 - 2009	Makerere University	Chemistry Class Leader
2004-2005	Kasawo SSS	Science Class President

PERSONAL ACADEMIC AWARDS

Year	Award	Purpose	FUNDER
2018	ACEII-PTRE Scholarship	PhD program	World bank
2013	MEPI-MESAU Fellowship	MSc Program.	National Institute of Health (NIH) USA
2013	RISE-AFNET Research Support	MSc. Research Project	Carnegie Corporation New York USA
2006	Government Scholarship	Bachelors program	Ugandan government

AREAS OF RESEARCH INTEREST

- Natural products synthesis and drug development against infectious diseases and cancer
- Drug analysis
- Toxicology

RESEARCH WORK AND TRAINING

My PhD research project is titled “**Isolation, characterization and bioactivity evaluation of phytochemicals from selected medicinal plants of family fabaceae against *Mycobacterium tuberculosis***”. The research is funded by world bank under the Africa Centre of Excellence II in Phytochemicals, Textile and Renewable Energy (ACEII-PTRE) project at Moi University School of Biological and Physical Sciences Department of Chemistry and Biochemistry. Currently, I am seeking approval and attachment to KEMRI to conduct my experiments from the CTMDR.

My MSc research project was titled, “**Toxicity profile of the methanolic leaf extract of *Eucalyptus globulus* in swiss albino mice and wistar albino rats**”. I specifically determined the acute toxicity of the extract in mice, evaluated the effect of the extract on biochemical and haematological parameters as well as histopathology of selected body organs in rats after subchronic administration. I was supervised by Prof. Paul Waako, Department of Pharmacology and Therapeutics, College of Health Sciences and Dr. Edward Nyatia, Department of Biotechnical and Diagnostic Sciences, College of Veterinary Medicine Animal resources and Biosecurity Makerere University.

My Bachelor of Science research project was entitled “**Anthocyanin containing food stuffs sold in Kampala Markets and their potential applications in the food and medical industry**”. I specifically collected samples of coloured food stuffs from popular Kampala markets and documented their nutritional and medicinal values. I analyzed the extracts from the food stuffs using UV spectrometry and identified those that contained anthocyanins. I was supervised by Prof. Robert Byamukama, Department of Chemistry College of Natural Sciences Makerere University.

Other research projects participated in

Period	Level	Topic	Status
2012 - 2014	Research assistant	Isolation and characterization of medicinal plants used in management of TB in central Uganda. (Dr. Bunalema Lydia project)	Completed
2017- 2018	Research assistant	Assessment of the impact of mercury on environment in Namayengo and Kisita gold mines (Dr. Mohammed Ntale project)	Ongoing
2018 to date	Principle Investigator	Tracking and mapping drivers of antimicrobial resistance in Eastern Uganda	Ongoing

STUDENT PROJECT SUPERVISION

Period	Student	Topic	Status
2017	Isaac Muhwana (B.Pharm)	Analgesic and anti-inflammatory activity of aqueous Leaf extract of <i>Erlangea tomentosa</i> (S. Moore) in wistar albino rats	Completed
2018	Kasumba Wilson (MSc.)	Occurrence of antibiotics and organophosphate pesticides in milk products sold in Mukono district Uganda	Ongoing

PUBLICATIONS

1. **Obakiro, S. B.**, Bunalema, L., Nyatia, E., & Waako, J. P. (2018). Ulcerogenic Potential of Eucalyptus globulus L . Leaf Extract in Wistar Albino Rats.
<https://doi.org/10.3923/jpt.2018.Research>

2. Bunalema L, **Obakiro S**, Tabuti RS, Waako JP (2014) Knowledge on plants used traditionally in treatment of Tuberculosis in Uganda. Journal of ethnopharmacology vol. 151; 999-1004

ABSTRACTS/ REPORTS/ POSTER PRESENTATION AT CONFERENCES

- Obakiro SB: **Uganda' medicinal plants hold a solution for the multidrug resistant tuberculosis**; At the Pharm Development International conference 2018 28 -29th November 2018, Moscow Russia
- **Obakiro SB**, Bunalema L, Ndukui J, Waako JP, Nyatia E. **Sub-chronic toxicity profile of *Eucalyptus globulus* methanolic leaf extract in wistar rats**. At NAPRECA Uganda Conference on 5th April 2019; Makerere University Kampala.
- **Obakiro SB** and Pravin Kendreker: **The past, present and future prospects of drug discovery against tuberculosis- A review**: At the Antimicrobial Resistance Conference 2017; Mbarara University of Science and technology, Mbarara, Uganda
- **Obakiro SB**, Bunalema L, Ndukui J, Waako JP, Nyatia E. **Sub-chronic toxicity profile of *Eucalyptus globulus* methanolic leaf extract in wistar rats**. At MEPI-MESAU annual dissemination conferences 2015, Busitema University Mbale Uganda

SKILLS AND COMPETENCIES

- Teaching skills
- Supervision of undergraduate research projects
- Skills in good laboratory practices (GLP)
- Analytical chemistry skills
- Computer skills.
- Good communication and presentation skills
- Leadership and interpersonal skills
- Scientific writing

PROFESSIONAL MEMBERSHIP

I am a member of the following bodies;

- Uganda Pharmacological Society (UPharS)

- Pharmacology Journal club of Uganda (PJCUC)
- Uganda National Teachers Union (UNATU)

LANGUAGE PROFICIENCY

Language	Listening	Writing	Speaking
English	Excellent	Very good	Very good
Luganda	Excellent	Very good	Excellent

INTERESTS AND HOBBIES

- Advancing knowledge on informed use of drugs and other chemicals in Africa
- Sharing educational experiences particularly on drug and chemical research, application of ICT and analytical chemistry in pharmacology
- Religious camps, football and volley ball

REFEREES

NAME	RESPONSIBILITY	CONTACT
Prof. Paul Waako	Professor of Pharmacology and Therapeutics and Vice chancellor Busitema University	+256-772468458 paulwaako@yahoo.com
Prof. Ambrose Kiprop	Professor of Organic Chemistry and Dean, School Biological and Physical Sciences Moi University, Kenya	Ambkiprop@gmail.com +254719241704
Dr. John. Wasswa	Senior Lecturer and Chair, Chemistry department Makerere University College of Natural Sciences	+256-772504657 jnwasswa@yahoo.co.uk
Dr. Moses Ocan	Lecturer Pharmacology and Therapeutics Department Makerere University College of Health Sciences	+256-782-35302 mocan@chs.mak.ac.ug