

BIOGRAPHICAL SKETCH

NAME
Frederick Banvu Nozmo-Mukiibi, MSc, PhD

POSITION TITLE
Professor

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	MM/YY	FIELD OF STUDY
Lomonosov State University, Moscow, Russia	BSc, MSc	05/72	Animal and Human Physiology
Lomonosov State University, Moscow, Russia	PHD	05/86	Neurophysiology
Kololo Research Centre for Postgraduate Research	PGC	09/08	Research Methods

Personal Statement

My main goal at Mbarara University of Science and Technology (MUST) has been to help enable MUST become a regional centre of excellence in biomedical, behavioral and operational research. Since its establishment in 1989, MUST has grown from a five-lecturers, forty three-student Medical School to a multi-disciplinary university with over five hundred academic staff and three thousand students. MUST's community-based medical education curriculum has produced some of the best clinicians in Uganda and serves as the model for all medical schools in the country. MUST is now at a point where it can become an internationally renowned centre for research. Developing its research administration infrastructure has been the key to this vision.

As one of the longest standing staff members, I have been instrumental in building MUST's academic and administrative programs. I am currently the Director of the MUST Grants Office (MGO) and also serve as the Associate Dean for Research and Post Graduate Studies in the Faculty of Medicine. My current research interests are in the area of nutrition and food insecurity in HIV patients in Uganda. I received my undergraduate and graduate training in Neurophysiology at Lomonosov State University, Moscow. On my return to Uganda, I took a position with Uganda National Research Council where I was responsible for coordinating research in veterinary and human medicine. I subsequently joined MUST as an academic staff member teaching in the Faculty of Medicine. While at MUST, I have held several academic and administrative positions while helping to continually develop MUST's Medical Curriculum and Research program, in particular.

As Associate Dean for Research and Post Graduate Studies, I am charged with ensuring the scientific integrity of research proposals for post graduate students, lecturers and collaborators in the Faculty of Medicine. This is managed through the Faculty of Medicine Research and Ethical Review Committee (FREC) of which I have been Chairman for several years. In the 7 years that I served as the chairman of FREC, the committee reviewed more than 300 proposals from post graduate students, MUST staff and International collaborators. However, the research conducted by most post graduate and local investigators has faced challenges due to the limited funding available to fully execute and administer the research projects.

More recently, MUST has engaged in collaborative research projects with institutions in USA, Europe and Canada, including Harvard University, Massachusetts General Hospital, University of California San Francisco, Indiana University, Pennsylvania State University, Duke University, Lund University, University of Bristol, University of Hull, Gent University and Mc Master University to mention but a few. These partnerships have expanded the horizon of the research program at MUST both academically and financially by providing additional resources to the MUST investigators to build a critical mass of investigators and research infrastructure. However, there are two critical gaps in MUST's current research infrastructure: 1) Inadequate administrative capacity and expertise to manage the current research portfolio generated by our international collaborations; and 2) inadequate administrative capacity and expertise to assist MUST investigator's ability to successfully compete for international research funding. A two-pronged approach was necessary to resolve these limitations and enable a thriving research environment at MUST. The first prong was to establish a grants office to manage the existing funded research portfolio largely led by our international collaborators, and the second prong was to increase the capability of the local staff and students to win competitive grant awards to build their research careers.

In 2009, I led efforts supported by our external collaborators to establish the MUST Grants Office (MGO). The MGO is the first centralized research administration office in a public academic institution in Uganda that serves all faculties and institutes within the university. At the time of its creation, there were more than 60 research projects in the Faculty of Medicine with about 20 of these led by international investigators in collaborative partnerships with MUST Investigators. All 20 research projects were being administered either directly from the partner institutions or through private Non Governmental organizations in Uganda. This involved tremendous administrative effort on the part of the local MUST co-investigators, many of whom personally managed projects from individual bank accounts. There was an urgent need for MUST to define an institutional standard for research administration and to support both local and international researchers by taking over grants administration. This office allowed individual investigators to focus more on science

on administration and created the process for establishing university-wide policies for research administration.

MGO is now in its seventh year of operation and has so far received a total of about 15 million USD in funding for more than 50 internationally sponsored projects. Under my leadership, the MGO has formulated policy guidelines in line with MUST, Uganda Government and International Donor requirements. These include a human resource manual, and guidelines on conflict of interest, procurement, handling of petty cash, travel, vehicle and equipment maintenance, fuel usage, car hire, vendor and rental agreements etc. Several training sessions have been undertaken for both project staff and Grants office core staff. Administration of research projects has gone smoothly with project timelines and implementation plans successfully completed. Most importantly, the existence of the office has led to the attraction of double the number of projects it started in the last seven years.

B. Positions and Honors

- 1972 – 1973 Biology Teacher, Kitanto Senior Secondary School, Kampala, Uganda
- 1973 – 1979 Research Coordinator/ Secretary, National Research Council, Uganda
- 1980 – 1983 Research Officer in Neurophysiology, Lomonosov State University, Moscow, Russia
- 1987 – 1989 Senior Research Coordinator for Medical and Veterinary Research Committee, National Research Council, Uganda
- 1989 – 1990 Warden, St. Lawrence Hospital South West London, England
- 1990 – 1993 Senior Lecturer, Department of Physiology, Faculty of Medicine, MUST
- 1993 - Associate Professor of Neurophysiology department of Physiology, MUST
- 2004 – 2005 Acting Head of Department of Physiology MUST
- 2005 - Associate Dean for Research and postgraduate Studies, Faculty of Medicine, MUST
- 2009- 2010 Acting Dean, Faculty of Medicine, MUST
- 1993- Secretary MUST Academic Staff Association.
- 2005- 2011 Chairman, Faculty of Medicine Promotion Committee, MUST
- 2005 - Member, Committee of Deans, MUST
- 2005 - Chairman, Faculty of Medicine, Research and Ethics Committee, MUST
- 2005 - 2009 Member, Institutional Ethical Review Committee, MUST
- 2006 – 2012 Chairman, Faculty of Medicine, Quality Assurance Committee, MUST
- 2009 – Chairman, Faculty of Medicine dissertation Committee, MUST
- 1995 - Chairmen, Sub-committee of MUST Graduation Ceremony
- 2009 - Director, MUST Grants Office, MUST
- 2012 4th September – Professor of Neurophysiology, Department of Medical Physiology, Faculty of Medicine, MUST.

C. Selected publication in peer reviewed journals

1. Naggayi Madina, Nozmo Mukiibi FB and Ezekieli Iliya. Nephroprotective Activities of Aqueous Extract of Carica Papaya Seeds in Paracetamol Induced Renal Injury in Male Wistar Rats, in: Journal of African Health sciences, August 2015.
2. Mark J Siedner, Alexander C Tsai, Shari Dworkin, Nozmo FB Mukiibi, Nneka Emenyonu, Peter W Hunt, Jessica F Haberer, Jeffrey N Martin, David R Bangsberg and Sheri D Weiser. Sexual Relationship Power and Malnutrition among HIV-Positive Women in Rural Uganda. AIDS Behavior (2012) PMID 22382629
3. Sheri D. Weiser, David M. Tuller, Edward A. Frongillo, Jude Senkungu, Nozmo-Mukiibi F.B, David R. Bangsberg; - Food Insecurity as a Barrier to sustained Anti Retro Viral Therapy Adherences in Uganda. PLOS ONE www.plosone.org, April, 2010, vol,5 Issue 4, E10340.
4. Kayondo M, Wasswa S, Kabakyenga J, Mukiibi N, Senkungu J, Stenson A, Mukasa. Predictors and outcome of surgical repair of obstetric fistula at a regional referral hospital, Mbarara, western Uganda. P. BMC Urol. 2011 Dec 7;11:23. doi: 10.1186/1471-2490-11-23.
5. Nozmo-Mukiibi F.B, Chepurnova N.E, Podobina A.A Chepurnov S.A., Krejei. The effects of

combined administration of cyclic analogies of melanostatin and valproate on "kindled" amygdaloid seizures, in: *Epilepsia Amsterdam*, 1987, p.p.69-71.

6. Cherpurnov S.A Krejei J., Cherpurnov N.E, Nozmo-Mukiibi F.B, Podobina A.A. Anticonvulsant effects of valproate and cyclic analogies for melanostatin on "kindled" amygdaloid epilepsy. In: *Journal of Phamocology and Toxicology*, Moscow, 1987. p.p. 82 – 84.
7. Cherpurnova, N.E., Nozmo Mukiibi F.B, Podobina A.A, Krejei J., Cherpurnova S.A. The influence of cyclic analogies of melanostatin on the "kindling" effect (anti-epileptic effect) – In *Bulletin of experimental Biology and Medicine*, Moscow 1987, p p 61-63
8. Nozmo-Mukiibi F.B., Cherpurnova N.E., Cherpurnova S.A. Electrophysiological patterns of amygdaloidal "kindling" in the krushinsky – Molodokina rats – in: *Pr. of the higher school of the U.S.S.R*, Moscow, 1987, p.p 29-31.
9. Nozmo-Mukiibi F.B, Electrophysiological analysis of the "kindling" effect following stimulation of the amygdala in rats susceptible to audiogenic epilepsy. – In: *Thesis synopsis*, Moscow 1986 p.p. 22
10. Cherpurnova S.A Cherpurnova N.E, Nozmo-Mukiibi F.B, Bilateral Inter-amygdaloidal and neocortical integration in the development of the "kindling" effect. In: *Adaptive functions of the inter-central integration*. Published by the Brain Research Institute of the U.S.S.R. Academy of Medical Sciences. Moscow, 1986, p.p 92 -95.
11. Cherpurnova N.E, Podobina A.A, Lim T.N., Artichov M.N., Nozmo-Mukiibi F.B, Cherpurnov S.A., Melanostatin and its analogies in the regulation of the brain activities. In: *Neural peptides and their role in physiology and pathology*. Pro. All Soviet Conf. of the Siberian Branch of the U.S.S.R Academy of Medical Sciences, Moscow, Tomsk, 1985, p.p 131-132.
12. Cherpurnov S.A., Cherpurnov N.E.; Nozmo-Mukiibi F.B.- The Neural structural and neuroalchemical basis of amygdaloidal epilepsy in experimental animals, In: *Scientific Publications by the Brain Research Institute of the U.S.S.R., Academy of Medical Sciences*, N.12 Moscow 1983, p.p 182 – 185.
13. Cherpurnov S.A., Cherpurnov N.E., Nozmo-Mukiibi F. B.- The role of the amygdala in the system mechanisms of motivation. In: *Pro. Seminar on the theory of functional systems*, Moscow, 1982, Ministry of Health of the U.S.S.R p.p 139 – 141.

D. Research awards

1. International Extramural Associates Development Award (IEARDA. 2011) PAR-10-172. This is a five year National Institute of Health (NIH) funded award which started in 2011 and is valued at \$ 50,000 per year, making a total \$250,000. In winning this award, I wanted the grant to assist in establishing the MUST Grants Office. The award allows the winner to spend a couple of weeks at the NIH headquarters in Washington to acquire knowledge of NIH policies, processes and procedures.
2. Initiative on Research and Innovation Management (IRIM) 2012. This award was aimed at allowing the transfer of knowledge and skills by the awardees of IEARDA to other researchers in Southern African Universities. We conducted training workshops at the University of Zambia and at the University Of Cape Town, South Africa in order to allow the transfer of such knowledge and skills to happen.

E. Trainings

I have undertaken training for the IEARDA Grant for a couple of weeks at NIH Headquarters in Maryland, USA and at George Washington, University, Washington D.C. The training was aimed at acquiring knowledge and skills in grantmanship.