

ISN/CAEN RESEARCH VISIT REPORT

CATEGORY 1A: Visit by the applicant to another laboratory – April 2015 round

Visiting Fellow: FALADE, Temitope Eunice

M.Sc. Student, Department of Veterinary Anatomy, Faculty of Veterinary Medicine,
University of Ibadan, Nigeria

Host Supervisor: Prof. E. F. Mbajiorgu

Professor and Head, Histology and Embryology Division

Co-Host Supervisor: Prof. A. O. Ihunwo

Professor of Anatomy

Host Laboratory: School of Anatomical Sciences, University of Witwatersrand,
Johannesburg 7 York Rd, Parktown, 2193, South Africa.

Duration: 3rd September, 2015 – 27th November, 2015

Project title: The Expression of Neuronal and Glial Markers in the Testes of African Giant Rats across Age Groups.

I arrived in Johannesburg on 3rd September, 2015 and I met with my co-host supervisor, Prof. Amadi Ihunwo who gave me a warm welcome. I resumed at my host laboratory the following day where I also met with my host supervisor, Prof. Felix Mbajiorgu, who welcomed me as well. The laboratory is located on the 2nd floor of faculty of health sciences building. I was taken round the whole floor to get acquainted to the laboratories, offices and was also introduced to the members of the laboratory who helped me settle down and extended their support all through my research visit. I was made to obtain the access card, which allowed me entrance to the school premises, entire building, and associated areas. Then, I was allotted to an office space.

Following this, I was introduced to the chief technologist, Mrs Hasiena Ali who trained me on laboratory procedures during my research stay. She gave me hands-on training on embedding technique which I performed on formalin-fixed testicular tissues from the African Giant Rat. I was then guided through other procedures necessary for preparing sections for histology, histochemistry, and immunohistochemistry. Using the immunohistochemistry technique, I was able to demonstrate the expressions of neuronal cells, astrocyte-like cells, and collagen I and III fibres with anti-p75 NGF (Nerve Growth Factor), anti-glial fibrillary acidic proteins (GFAP), and anti-collagen I and III antibodies respectively.

I was also trained on digital photomicroscopy, in which I had the opportunity to use an Axioskop Microscope in studying my slides and for photomicrography.

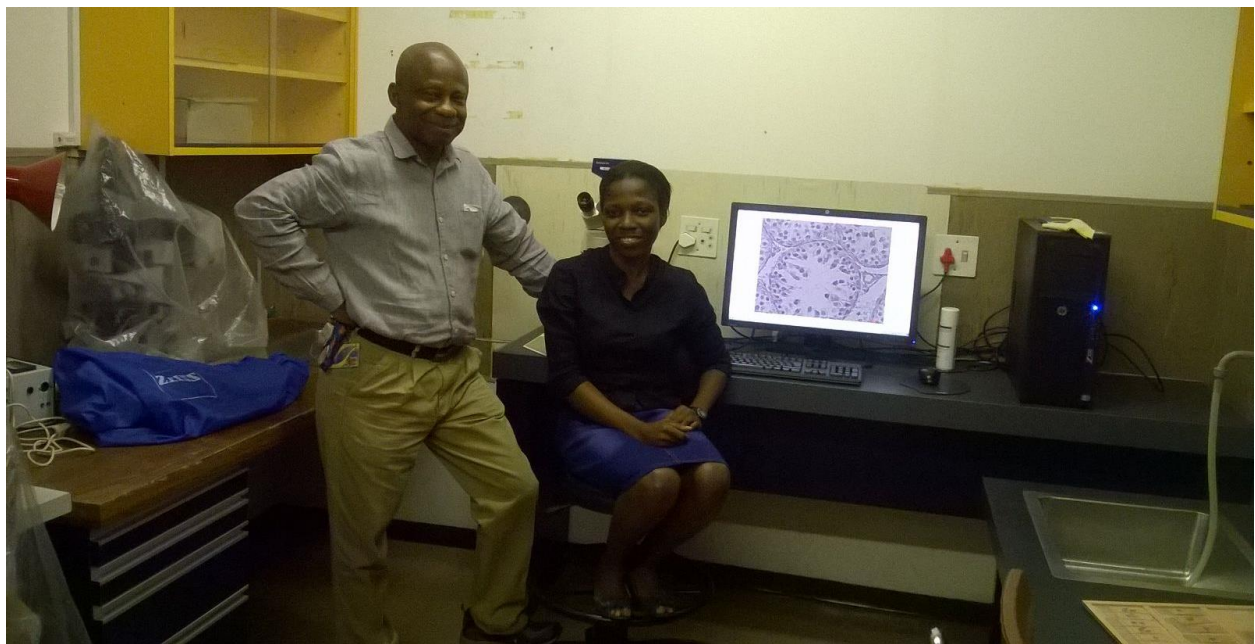
At all stages of the laboratory work, my host supervisor was readily available to guide me through the difficult points.

Additional knowledge were also acquired in that I had the opportunity of observing some research work going on in the laboratory such as electron microscopy, embryology using chick embryo, and also taking part in immunohistochemistry techniques using free-floating method.

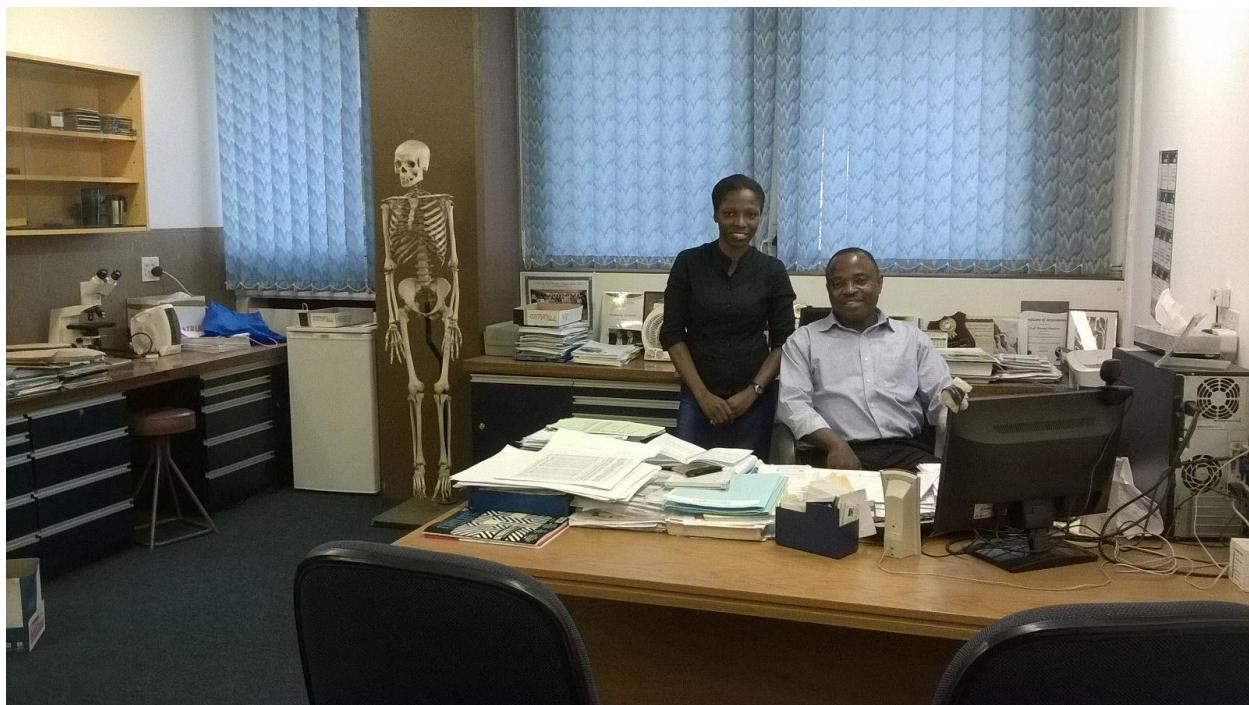
Therefore, I indeed appreciate the International Society for Neurochemistry (ISN) for the funding, support, and the training. This award really gave me the chance of networking with other scientists. I am still working on the publication of this study, in which ISN will be acknowledged.

Thank you ISN!!!

Some of the pictures taken during my research visit are below:



With my host supervisor



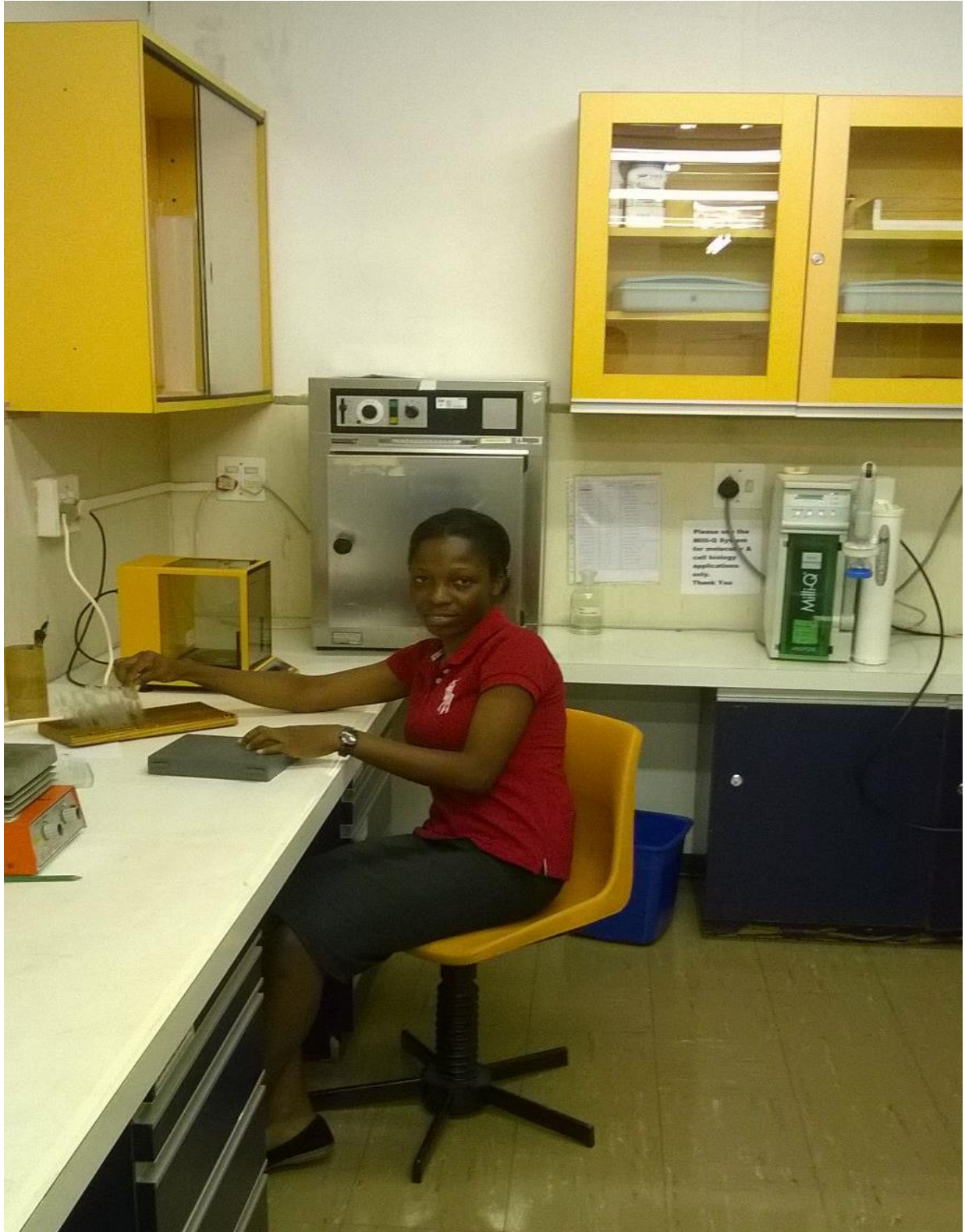
With my co-host supervisor



With the Technologist, Mrs Hasiena Ali



Working in the Histology/Research laboratory



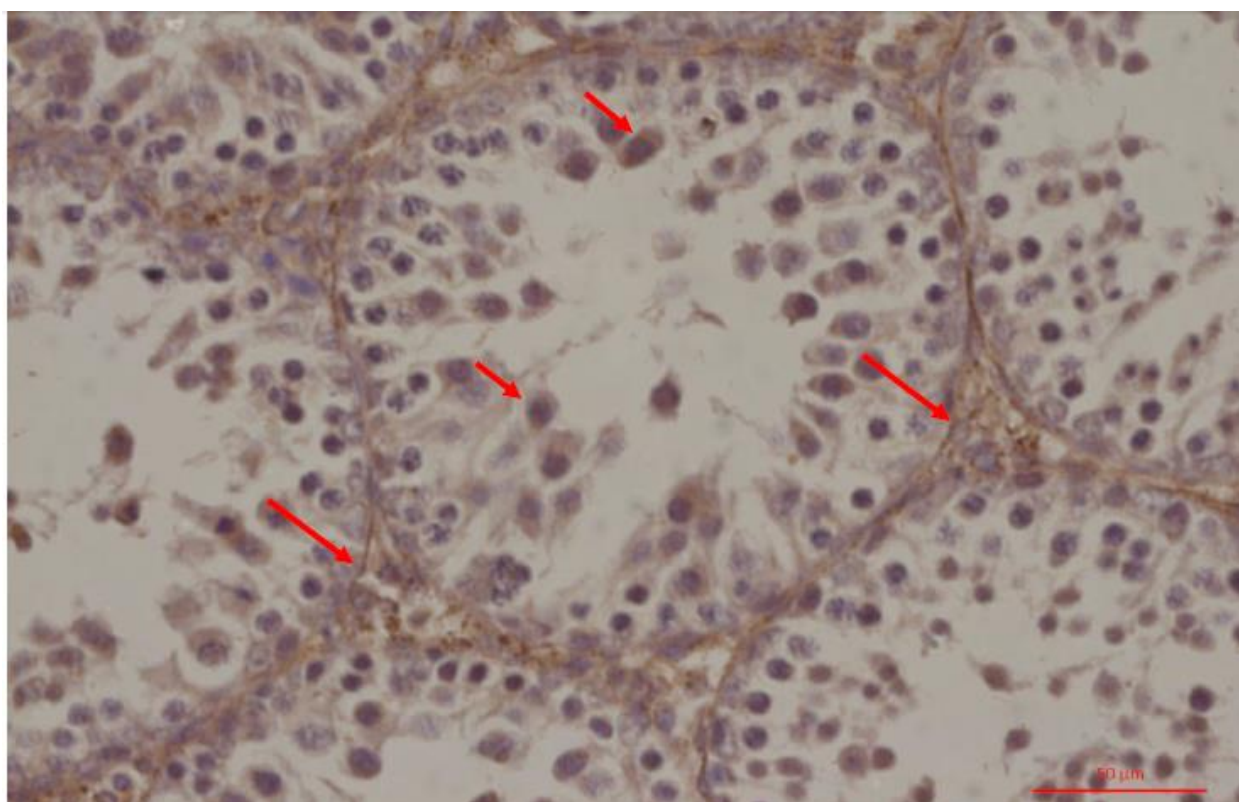
...In the Immuno-histochemistry laboratory



Using the digital photomicroscope



With my host supervisor presenting me my certificate of training



Representative Photomicrograph showing P75 NGF immunopositive cells in the juvenile testis, with immunolocalization of the positive cells extending across the interstitial spaces (long arrows) of the seminiferous tubules, and the primary spermatocytes (short arrows). P75 NGF immunostaining. Scale Bar: 50μm.

DR FALADE, TEMITOPE EUNICE

Falade