



## **ISN – CAEN Lab Visit Report**

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Department of Anatomy, Afe Babalola University, Ado – Ekiti, Nigeria. **Host:**

Dr. Charles C. Lee

**Host Laboratory:** Neural System Lab., Dept. of Comparative Biomedical Sciences, School of Vet. Medicine, Louisiana State University (LSU), Baton Rouge, USA.

**Funding:** ISN-CAEN Fellowship Category 1A (April, 2016)

### **Overview of Lab Visit:**

I, Philip Adeyemi Adeniyi, Research Fellow from Nigeria, got the excellent opportunity to visit the laboratory of Dr. Charles C. Lee, Neural System Lab., Dept. of Comparative Biomedical Sciences, School of Vet. Medicine, Louisiana State University (LSU), Baton Rouge, USA, under the ISN-CAEN Fellowship Category 1A: Visit by the applicant to another laboratory (April, 2016) between February 22, 2016 to July 29, 2016.

On my arrival at laboratory Dr C.C. Lee warmly welcomed me. Soon after my arrival, I was helped by Mrs. Katerin to fulfill all the administrative formalities and register as a LSU Visiting Scholar.

All the lab members extended full support to get me settled.

I received a refresher hands-on training in confocal immunohistochemistry from Dr O. M. Ogundele, a postdoctoral scientist in the lab. In addition to the above, I was able to visit the

laboratory of Dr. Joseph Francis, Cardiovascular Pathophysiology, Department of Pathological Biomedical Sciences (PBS), School of Vet. Medicine, LSU, to learn and performed western blotting protocols. Also, I was able update my knowledge about electron microscopy with the help of Dr Julia Sokolova that took me through electron microscopy preparations and EM imaging. This unique opportunity help me to include such protocol my research, to help me understanding the molecular mechanism behind the interactions of nicotine and MDMA.

During my stay, I regularly attended seminars and journal club meetings by visiting professors, researchers and students of the University.

Like all good things, my visit to Dr C.C Lee's lab also had to come to an end. On August 30, I left USA, scientifically enriched and confident to utilize my experience to bring a positive difference to my home lab.

### **Acknowledgements:**

I would like to thank CAEN and ISN for selecting my application and funding my visit. I also want to express heartfelt thanks to Dr C.C Lee for his continuous encouragement. This Lab visit would not have been possible without his kind support. I also want to thank Dr. O.M. Ogundele for teaching me some protocols during my visit. I am grateful to Dr. Joseph Francis for permitting me to use his lab. To learn western blotting protocol. I am thankful to Dr. Julia Sokolova, for helping me with electron microscopy preparation and EM imaging.

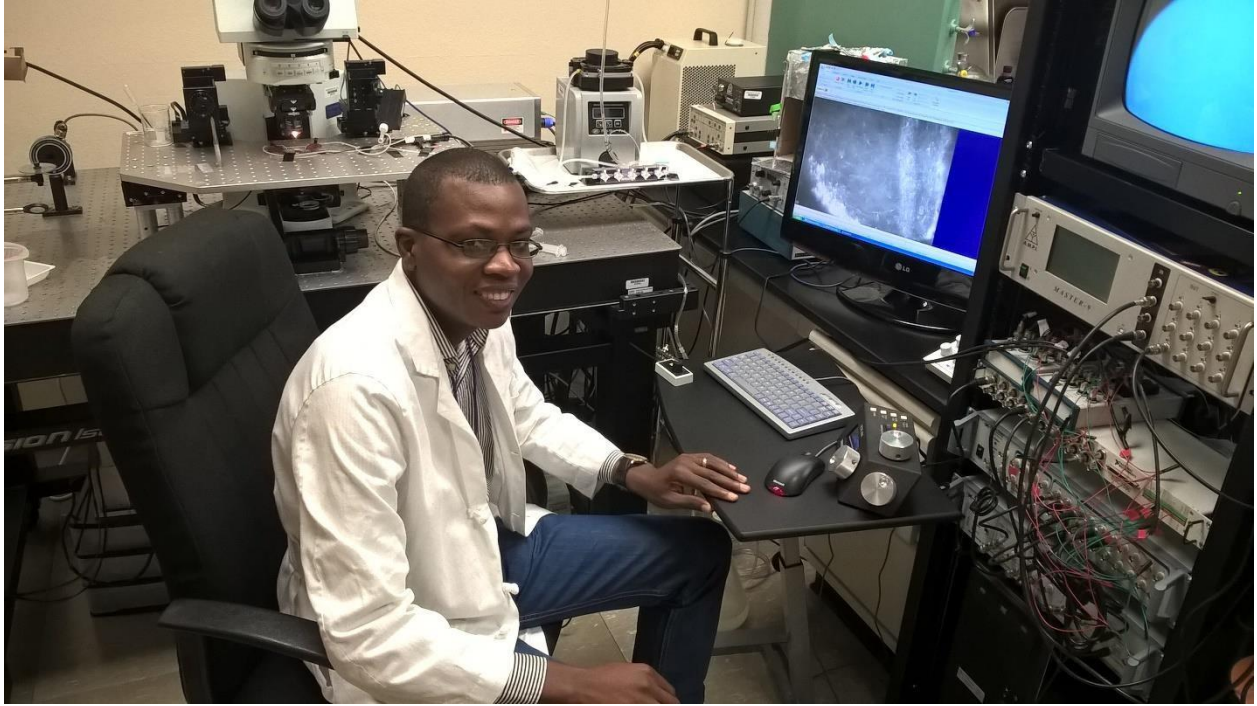


Photo 1: Philip A. Adeniyi (ISN-CAEN fellow) at Neural systems laboratory, Department of Comparative Biomedical Sciences (CBS), SVM, LSU, Baton Rouge, USA.



Photo 2: Baise, Philip Adeyemi Adeniyi (ISN-CAEN fellow), Dr Olalekan M. Ogundele, Jonathan (Standing, From left to right) and Dr Charles C. Lee (sitting) at Neural Systems Lab., CBM, SVM, LSU.



Photo 3: Philip A. Adeniyi (ISN-CAEN fellow) and Dr. Julia Sokolova, of Electron Microscopy center, SVM, LSU, Baton Rouge, USA.





Photo 4: Philip A. Adeniyi (ISN-CAEN fellow) at Electron Microscopy center, SVM, LSU, Baton Rouge, USA.

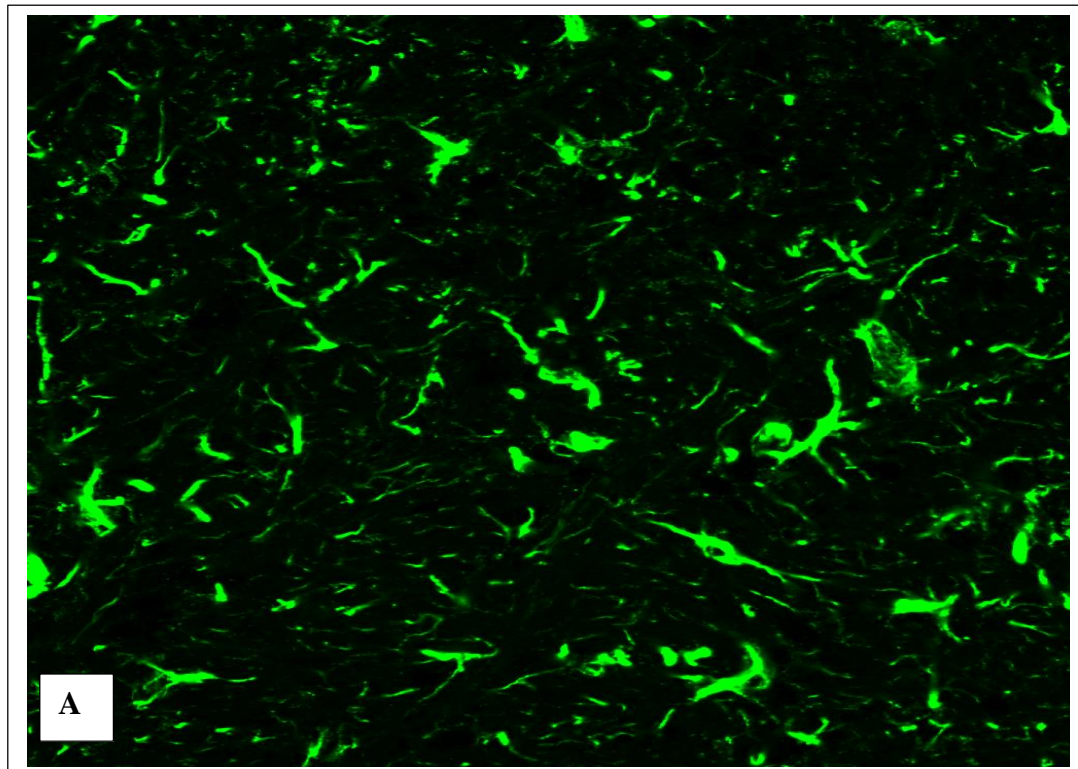
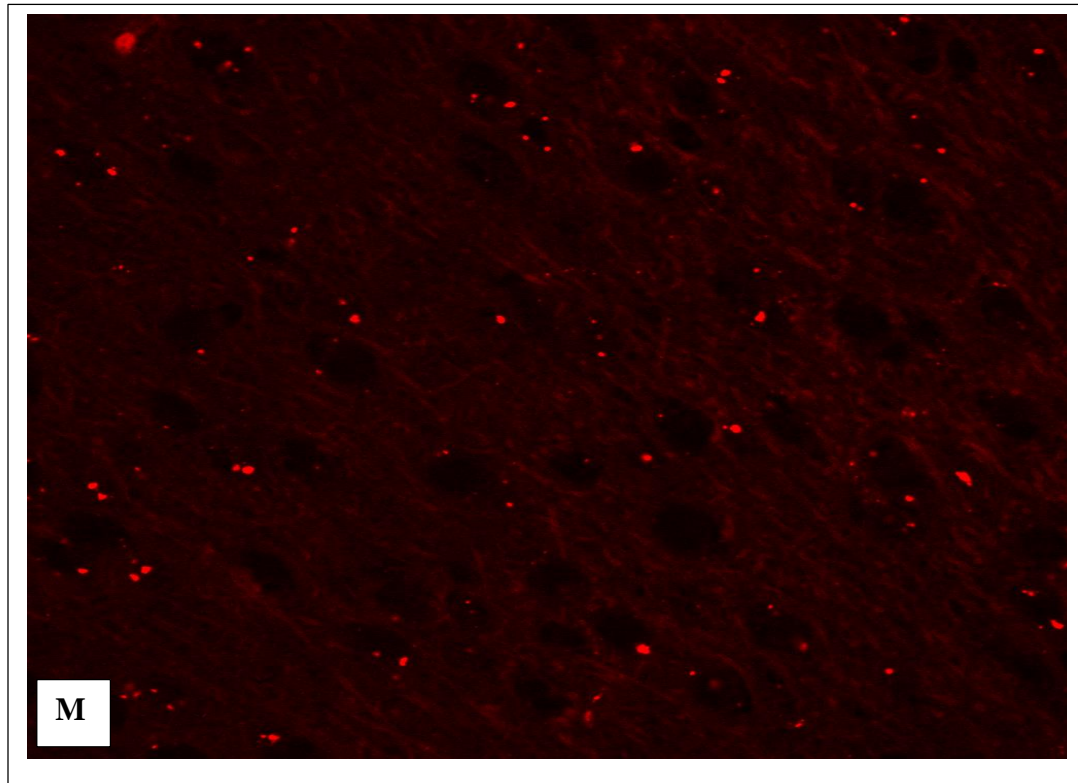


Photo 4: The immunofluorescence micrographs of the prefrontal cortex of BALB/c male mice showing microglia (M, stained with CD11b/c counter and Alexa Fluor 568 (red)) and astrocytes (A, Alexa Fluor 488 (green))