

**CURRICULUM VITAE**

**Personal Data**

<b>Name</b>	<b>FAKOYA, Francis Adelaide.</b> (Surname) (Other names)
<b>Date and place of birth</b>	10th October, 1967; Ijebu-Imushin
<b>Nationality</b>	Nigerian.
<b>Marital status</b>	Married with three children
<b>Address for Communication</b>	Histology and Cell Biology Division Department of Anatomical Sciences St. George's University School of Medicine, <b>P. O. Box 7, True Blue, St. George's, GRENADA.</b> Phone: +14734444175 EXT 2485 Mobile: +14735349960; Fax: +14734441602 email: <a href="mailto:ffakoya@sgu.edu">ffakoya@sgu.edu</a> , <a href="mailto:ffakoya@netscape.net">ffakoya@netscape.net</a>
<b>Next of Kin</b>	Dr. (Mrs.) Adebola O. Fakoya (Spouse) Campeche Hill, Lanse Aux Epines St. George's, Grenada Tel: +14735349959; 4397727.
<b>Present Position</b>	Associate Professor of Histology and Cell Biology, Department of Anatomical Sciences;  Adjunct Research Professor, School of Veterinary Medicine  WINDREF Research Fellow, Windward Islands Research and Education Foundation; St. George's University, Grenada.
<b>Date of Present Position</b>	1 <sup>st</sup> August 2007
<b>Current contract</b>	till 30 <sup>th</sup> June 2009

**Educational and Academic Qualifications**

2003 Ph.D. Obafemi Awolowo University, Ile-Ife, Nigeria  
1999 M.Sc. Obafemi Awolowo University, Ile-Ife, Nigeria  
1990 MB.ChB. Obafemi Awolowo University, Ile-Ife, Nigeria

**Supervisor**

Prof. E.A. Caxton-Martins  
Prof. E.A. Caxton-Martins

**Other Qualifications:**

1994 Certificate in Computer Appreciation  
(Sokemy Computer Center, Ilorin, Nigeria)

## **Training**

### **Reproductive Toxicology**

Hands-on expertise in the techniques used in teratology. Innovated a graduated device for intra-gastric administration of alcohol to pregnant rats without stress

### **Neurochemistry**

Immunohistochemical localization of neuronal cells and proteins and neurohistological techniques

### **Cytogenetics**

Establishment of human and rat lymphocyte cultures for karyotyping, cytogenetic characterization of congenital malformation.

## **Work Experience**

Aug 2007–date Associate Professor, Histology and Cell Biology, Anatomical Sciences Department, St. George's University, Grenada, W.I.

Oct 2007-date Research Fellow, Windward Islands research and Education Foundation, (WINDREF) St. George's University, Grenada

Aug 2008–date Adjunct Research Professor, School of Veterinary Medicine, St. George's University, Grenada, W.I.

Jan – Mar 2007 Visiting Professor, Histology and Cell Biology, Anatomical Sciences Department, St. George's University, Grenada, W.I.

2004 - 2005 Visiting Senior Lecturer, Department of Anatomy, Delta State University, Abraka, Delta State, Nigeria.

2001 Visiting Research Fellow, Department of Neurochemistry, Paul-Flechsig Brain Research Institute, University of Leipzig, Leipzig, Germany.

### **Work Experience in Obafemi Awolowo University (June 1994-Aug 2007)**

#### *DEPARTMENTAL LEVEL:*

Co-ordinator, Year III Medical and Dental Anatomy Programme  
Co-ordinator, Dissection and Embalming Services,  
Co-ordinator, Tissue Culture Laboratory,  
Chief, Tissue Culture Laboratory,  
Lecturer II in Anatomy and Cell Biology,  
Lecturer I in Anatomy and Cell Biology,  
Senior Lecturer in Anatomy and Cell Biology  
Project officer, Collaborative Africa-America Graduate Schools Project  
Pioneer and Organizer, PubMed workshop series  
Departmental Web Master  
Co-ordinator, Departmental Computer Laboratory

#### *FACULTY OF BASIC MEDICAL SCIENCES LEVEL:*

Faculty Board member  
Member Faculty Review Panel  
Member, Faculty Board of studies

Faculty Web Officer

Faculty Nominee for the NUC Expert Committee on the National Virtual Library Project (2001)

*COLLEGE OF HEALTH SCIENCES LEVEL*

Member, College Lecture/ Research Seminar Committee

Member, College Academic Board

Member, College planning for 30 years of Medical Education in Ife

Member, College IT committee

*UNIVERSITY LEVEL:*

Representative of Congregation on Health Center Management Board

**Work Experience outside of Obafemi Awolowo University**

Medical Officer, Hassanat Memorial Hospital, Ilorin, Nigeria (1993-1994).

Senior House Officer (National Service), General Hospital Kazaure, Jigawa State. (1992-1993).

Internship, Wesley Guild Hospital, Obafemi Awolowo University Teaching Hospitals Complex, Ilesa (1990-1991).

Part-time Demonstrator/Prosector, Department of Anatomy and Cell Biology (1989-1991).

**Work Experience in Delta State University (2004-2005)**

Pioneer Acting Director, Institute of Health Research and Postgraduate Training

Project Director, Laboratory Animal Center

Senior Lecturer, Department of Anatomy

Member, College Curriculum Planning Committee

Member, College Academic board,

Member, College Appointments and Promotion Committee

Member, College Accreditation Committee

Member, University Postgraduate Board

**Teaching in Obafemi Awolowo University**

A (i). **Pre-Clinical undergraduates**

CLI 210 Human Embryology, Basic Medical Genetics.

Tissues of the body, Basic and Gross Anatomy.

CLI 310 Reproduction and Endocrinology, Neuroanatomy.

A (ii). **Clinical Undergraduates**

CLI 420 Genetic basis of Diseases

CLI 520 Prenatal Diagnosis

CLI 610 Genetics in Medicine

SEH001 Man and his Health

B. **POSTGRADUATE**

ANA 601 Histology/Cytology ANA 602 Histochemistry/Cytochemistry

ANA 603 Neurobiology ANA 604 Developmental Biology

ANA 605 Teratology ANA 607 Tissue Culture

ANA 609 Endocrinology

**GRADUATE STUDENT SUPERVISION**

**(a) By Research**

- (i) Hyper- Hypoglycemic body state: Morphological evaluation of some vital body organs (M.Sc Anatomy) Shallie, P.D. **Completed 2004.**
- (ii) Effects of chronic administration of alcohol on the Superior Colliculus and Lateral Geniculate Body of adult wistar rats (M.Sc. Anatomy) Fakunle, P.B. **Completed 2004.**
- (iii) Some Histological and Histochemical studies on the testes of the African pangolin, *Manis tricuspis* . (MSc. Anatomy) Ihyar, A. C. **Completed 2006.**
- (iv) A comparative light microscopic study of the hippocampus in three mammalian species: Pangolin, Bats and rats [MSc. Anatomy] Keji, S.T. [On going]

### **Teaching in St. George's University**

ANA 531 - Histology and Cell Biology  
Cell Biology series [1-9], Connective tissues, Blood, Gastrointestinal Tract

Anatomy and Physiology for Nurses I & II

### **Affiliation with Professional Bodies and Societies**

Member, Nigeria Medical Association  
Member, Anatomical Society of Nigeria (Assistant Editor of the Society's official journal)  
Member, Neuroscience Society of Nigeria  
Member, International Society for Neurochemistry  
Member, International Society for Developmental Neuroscience  
Member, West African Society of Anatomy  
Member, Society of Neuroscientists of Africa  
Member, Neurotoxicity Society

### **Fellowships/Scholarships Awarded:**

(a) **Scholarships: Federal Government Postgraduate Scholarship** for M.Sc. Anatomy, in Obafemi Awolowo University, Ile-Ife, 1996/97 session.

(b) **Fellowships:**

**The International Society for Neurochemistry Fellowship**, for a Collaborative Research at the University of Leipzig, Germany, May – August 2001.

**International Society for Neurochemistry Fellowship** to attend the 6<sup>th</sup> Biennial Advanced School of Neurochemistry of the ISN July 30 – August 3, 2003, Responses to Trauma in the CNS: Genes to Ethics, Hong Kong University of Science and Technology, Hong Kong, China

**International Brain Research Organization (IBRO) Fellowship** to attend the 10<sup>th</sup> Fogarty-IBRO African Neuroscience School, Basic and Clinical Neuroscience in West Africa, 23<sup>rd</sup> – 27<sup>th</sup> July 2005, Bamako, Mali

**International Society for Neurochemistry Fellowship** to attend the 7<sup>th</sup> Advance School of Neurochemistry 2005 of the International Society for Neurochemistry (ISN) August 17<sup>th</sup> – 21<sup>st</sup>, 2005, Obergurgl, Austria. "Watching the Invisible: The Impact of Molecular Imaging, Proteomics and Functional Genomics on Modern Neuroscience".

**International Society for Neurochemistry Fellowship (CAEN)** to attend the 2007 MBL Course on “Analytical and Quantitative Light Microscopy” 9-18 May 2007, Woods Hole, MA, USA.

**Obafemi Awolowo University Learned Conference Travel Award** to attend the 2007 MBL Course on “Analytical and Quantitative Light Microscopy” 9-18 May 2007, Woods Hole, MA, USA.

**(c) Research Grants:**

1. **University Research Committee, Obafemi Awolowo University Grant #DVC/COR.RS/3** – Preliminary investigations of chromosomal pattern of congenital malformations in children presenting at the Obafemi Awolowo University Teaching Hospitals complex (OAUTHC), Ile-Ife. 6<sup>th</sup> June 2002 to 30<sup>th</sup> June 2005. **(\$9,700.00) Principal Investigator.**
2. **University Research Committee, Obafemi Awolowo University Grant**– A study of the effects of incision of tunica albuginea and allopurinol on the testes following varying periods of ischaemia. O. Adejuyigbe and Fakoya F.A. October 2002 to October 2005. **Co-Investigator (\$4,000.00)**
3. **University Research Committee, Obafemi Awolowo University Grant** – Toxicity evaluation of Nigerian medicinal plants and herbal preparations. S.A. Adesanya, O.R. Omobuwajo, F.A. Fakoya and I. Awopetu. May 2003 to April 2006. **Co-Investigator. (\$6,600.00).**
4. **TWAS Research Grant of the Academy of Sciences for the developing world-** Evaluation of lectin-mediated mitogenesis from *Kalanchoe crenata* (Shaw) leaves extract. Fakoya F.A. December 2006 – July 2008. **Principal Investigator (\$6,000.00)**

**(d) National Awards** – National Youth Service Corps Certificate, 1993.

**(e) International Awards:**

**International Society for Neurochemistry travel Award** to attend the 17<sup>th</sup> biennial joint meeting of the International Society for Neurochemistry and European Society for Neurochemistry, Berlin, Germany, 8<sup>th</sup> - 14<sup>th</sup> August 1999.

**International Brain Research Organization (IBRO) Travel grant Award** to attend the 19<sup>th</sup> biennial joint meeting of the International Society for Neurochemistry (ISN) and Asian-Pacific Society for Neurochemistry (APSN), Hong kong, China, 3<sup>rd</sup> - 8<sup>th</sup> August 2003.

**International Society for Neurochemistry travel Award** to attend the 19<sup>th</sup> biennial joint meeting of the International Society for Neurochemistry (ISN) and Asian-Pacific Society for Neurochemistry (APSN), Hong kong, China, 3<sup>rd</sup> - 8<sup>th</sup> August 2003

**United States Information Service Grant** for faculty exchange visit to the Department of Cell Biology, University of Oklahoma Health Sciences Center, USA, on the **Collaborative Africa-America Graduate Schools project**, May 4<sup>th</sup> -21<sup>st</sup> 2003

**International Brain Research Organization (IBRO) Travel Grant Award** to attend the 16<sup>th</sup> Biennial meeting of the International Society of Developmental Neuroscience, Banff Center, Alberta, Canada, August 24<sup>th</sup> -28<sup>th</sup> 2006. [ISDN 2006]

**Obafemi Awolowo University Learned Conference Travel Award** to attend the 2007 MBL Course on “Analytical and Quantitative Light Microscopy” 9-18 May 2007, Woods Hole, MA, USA.

## **Publications**

### **Dissertations**

1. Fakoya, F. A. Immunohistochemical and Neurohistological studies of the Neocortex of adult wistar rats following prenatal ethanol exposure. **Ph.D. Thesis**. Obafemi Awolowo University Ile-Ife, Nigeria. (2003)
2. Fakoya, F. A. Some Morphological and Histochemical studies of the Neopallium cerebra of adult wistar rats prenatally exposed to ethanol. **M.Sc. Thesis**. Obafemi Awolowo University Ile-Ife, Nigeria. (1999)
3. Fakoya, F. A. A survey of the Environmental Health Problems in Oke-Opa Community in Ife Central Local Government Area of Oyo State. **MB.ChB. Thesis** Obafemi Awolowo University, Ile-Ife, Nigeria. (1990).
4. Fakoya, F. A. Sickle Cell Anaemia. Two Years (1987-1988) Retrospective study of cases at the Obafemi Awolowo University Teaching Hospitals Complex Ile-Ife. **MB.ChB. Thesis**. Obafemi Awolowo University, Ile-Ife, Nigeria. (1989a)
5. Fakoya, F. A. Late paraphrenia (a case study). **MB.ChB. Thesis**. Obafemi Awolowo University, Ile-Ife, Nigeria. (1989b)

### **Books/Monographs**

1. Fakoya F. A. and Oluwaranti A.I. PUB MED Workshop Hand Book, 2001, 35 Pgs.
2. Ojo, O.S. and Fakoya, F. A. (editors). Revision Course Handout for Primary FMCPATH Examinations, 2004, 224 Pgs

### **Original Articles/Published conference proceedings**

1. **Fakoya, F.A.** (2002) Reticulin fibres in the tunica albuginea and peritubular tissue of seminiferous tubules of adult male wistar rats. *Acta Histochemica* 103(3):279-283
2. Orafidiya L.O., Agbani E.O., Abereje , O.A., Awe, T., Abudu A., and **Fakoya F.A.** (2003) Investigating the wound healing properties of the essential oil of *Ocimum gratissimum* linn. *Journal of Wound Care* 12 (9):331-334
3. **Fakoya, F.A.** and E.A. Caxton-Martins (2004) Morphological alterations in the seminiferous tubules of adult wistar rats: Effects of prenatal ethanol exposure. *Folia Morphologica* 63(2):195-202

4. Agbedahunsi J.M., **Fakoya F.A.** and Adesanya S.A. (2004) Studies on the anti-inflammatory and toxic effects of the stem bark of *Khaya Ivorensis* (Meliaceae) on rats. *Phytomedicine*. 11(6):504-8
5. **Fakoya, F. A.** (2005) Persistent neocortical astrogliosis in adult wistar rats following prenatal ethanol exposure. *Brain and Dev.* 27(4):259-265
6. Orafidiya, 'Lara O., **Fakoya, F.A.**, Agbani, E.O., and Iwalewa, E.O. (2005) Vascular permeability- increasing effect of the leaf essential oil of *ocimum gratissimum* linn as a mechanism for its wound healing property. *Afr. J. Trad. CAM* 2(3): 253-258
7. **Fakoya, F. A.**, Bamiwuye, S., Oluwaranti, A.I., Fakoya, A.O. (2005) Internet utilization by Nigeria Doctors: Empirical evidence for integrating computer knowledge and Information Technology into Core Medical Curriculum. *Proceedings of the International Conference on Application of ICT to Teaching, Research and Administration AICTTRA*. 1:68-77
8. **Fakoya, F. A.**, Bamiwuye, S., Fakoya, A.O. (2005) Role of the Internet in Medical Practice as perceived by Nigerian Doctors. *Proceedings of the International Conference on Application of ICT to Teaching, Research and Administration AICTTRA*. 1:86-94
9. **Fakoya, F. A.** and Caxton-Martins, E. A. (2006) Neocortical neurodegeneration in young adult wistar rats prenatally exposed to ethanol. *Neurotoxicology and Teratology*. 28:229-237.
10. Sowemimo A.A., **Fakoya F.A.**, Awopetu I., Omobuwajo O.R., Adesanya S.A. (2007) Toxicity and mutagenic activity of some selected Nigerian plants. *J Ethnopharmacol*. 113:427-32.
11. Bakinde N., **Fakoya F.A.**, Lüth H.J. (2007) Basal forebrain and midbrain raphe origins of NOS-containing axons in the rat visual cortex. *Journal of Anatomical Sciences* 1:11-16.
12. Akpan H.B., Adefule A.K., **Fakoya F.A.**, Caxton-Martins E.A. (2007) Evaluation of LDH and G6-DH activities in auditory relay centers of streptozotocin-induced diabetic wistar rats. *Journal of Anatomical Sciences* 1:21-25.
13. **Fakoya, F. A.**, Osoniyi, O. O. and Obuotor, E. M. (2005) Combined isoniazide/rifampicin administration is neurotoxic on the cerebral cortex of adult wistar rats. *Journal of Neurochemistry*, 94 (Suppl.2):1-63, P84.
14. **Fakoya, F. A.** (2004). Persistent neocortical astrogliosis in adult wistar rats following prenatal ethanol exposure. *International Journal of Developmental Neuroscience*, 22(8); [P191], 708-709.

*IBRO sponsored poster presentation at the 15<sup>th</sup> Biennial Meeting of the International Society for Developmental neuroscience, 4<sup>th</sup> - 7<sup>th</sup> August 2004, Edinburgh, Scotland.*

15. **Fakoya, F.A.** and Caxton-Martins (2004) Early neocortical neurodegeneration in adult wistar rats prenatally exposed to ethanol. *Journal of Neurochemistry*, 90 (Suppl.) OR4-05.

*Oral presentation at the 35<sup>th</sup> Annual meeting of the American Society for Neurochemistry, Waldorf Astoria Hotel, New York, USA, 14<sup>th</sup> -18<sup>th</sup> August, 2004*

16. **Fakoya F.A.** and Agbedahunsi J.M. (2001) Studies on the toxic effects of the stem bark of *khaya ivorensis* (meliaceae) on the cerebral cortex. *Journal of Neurochemistry*, 78 (Suppl.) Bp 23-29

17. **Fakoya, F.A.** (2001) Collaborative Graduate Linkages in Anatomy and Human Genetics. *Second Collaborative Africa-America Graduate Schools Project Symposium, "Implementing Collaborations Between African and American Graduate Schools", Nairobi, Kenya, 9<sup>th</sup> - 11<sup>th</sup> April 2001.*

*Oral presentation at the Second Collaborative Africa-America Graduate Schools Project Symposium, Nairobi, Kenya. 9<sup>th</sup> - 11<sup>th</sup> April 2001.*

18. **Fakoya, F. A.** (2001) Clinical Anatomy of the Liver. *Liver Biopsy Pre-Conference Workshop of the 5<sup>th</sup> Annual Scientific Conference of the Nigerian Association for the Study of the Liver, Obafemi Awolowo University, Ile-Ife, February 21<sup>st</sup> - 23<sup>rd</sup>, 2001.*

19. **Fakoya F. A.** (1999) Reticulin formation in the Neopallium cerebra of adult wistar rats, following prenatal exposed to ethanol. *Journal of Neurochemistry*, 73 (Suppl.) 849.

*Poster presentation at the 17<sup>th</sup> biennial joint meeting of the International Society for Neurochemistry and European Society for Neurochemistry, Berlin, Germany, 8<sup>th</sup> -14<sup>th</sup> August, 1999*

20. **Fakoya, F. A.** (1998) Prenatal Exposure to Ethanol distorts the microanatomy the Neopallium Cerebri of the Adult wistar rats. *Book of Abstracts of the 4th Annual Scientific Conference of the Neuroscience Society of Nigeria, at Ahmadu Bello University, Zaria. March 11<sup>th</sup> -14<sup>th</sup>, 1998, pg. 4 -5.*

*Oral presentation at the 4th Annual Scientific Conference of the Neuroscience Society of Nigeria, Ahmadu Bello University, Zaria. March 11-14, 1998.*

#### **Original Articles Submitted For Publication**

21. Fakoya, F.A. and Caxton-Martins E.A. Fetal Alcohol Syndrome: Are there cases in Nigeria? *West African Journal of medicine*
22. Obuotor, E.M., Osoniyi, O.O. and Fakoya, F. A. Evaluation of the protective potential of *Garcinia kola* seed extract on drug-induced hepatotoxicity in the rat. *Phytomedicine*



23. Fakoya, F.A., Osoniyi, O.O. and Obuotor, E.M. Analysis of combined anti-tuberculous drug induced neurotoxicity in the cerebral cortex of adult wistar rats by Immunohistochemistry. *Folia Morphologica*

### **Manuscripts in Preparation**

22. Fakoya, F.A. Fetal Alcohol Syndrome: The Neocortical sequelae of prenatal ethanol exposure.
23. Fakoya, F.A., Obuotor, E.M. and Osoniyi, O.O. Garcinia kola is not neuroprotective against the neurotoxicity of combined isoniazide and rifampicin in rats.

### **CURRENT RESEARCH ACTIVITIES**

1. **National Coordinator:** Grenada National Brain Bee Challenge, with affiliation to the International Brain Bee Championship
2. Alcohol Study Group: Evaluation of the pattern of alcohol use, misuse and abuse in Grenada and the impact on prevalence of neurodevelopmental disorders
3. Toxicological assessment of natural plants products of medicinal use from Grenada
4. Initiator and primary organizer: Seminars on “**Ethical Issues in Animal Experimentation**”

### **Scientific Collaborations (ongoing)**

1. Dr. Philip R Brauer, Creighton University, Omaha, NE, USA on *Effects of prenatal ethanol exposure on the role of metalloproteinases mediated neural crest cells proliferation and migration.*
2. School of Veterinary Medicine, University of West Indies, St. Augustine, Trinidad and Tobago on *Design and Utilization of experimental animal paradigms for biomedical research.*
3. Dr. Omowale Amuleru-Marshall, School of Public Health, St. George’s University, Grenada, on *Epidemiology of alcohol use amongst women of reproductive age group in Grenada.*

### **PROFESSIONAL ACCOMPLISHMENTS**

**Medical Genetics and Cytogenetics:** I have re-awakened the awareness for the re-introduction of medical genetics into our undergraduate Medical and Dental program since 1998. This was achieved by the direct introduction of topics in genetics into the existing body of courses (CLI 210, 310, 520; and 610) and the introduction of a new lecture series in the CLI 400 series – CLI 420, Genetic basis of Diseases. I undertake the teaching of most of the subject from preclinical II through to Clinical VI classes, following a gradual build up of the body of knowledge of Medical Genetics to our undergraduate Medical and Dental students. It is hoped that with the review of the College programme, Medical Genetics as a course would become adequately incorporated, staffed and funded (practicals). I reactivated and revamped the Tissue Culture Laboratory of the Department since 1998 with functional hardware for varying kinds of in-vitro studies. On-going studies in the lab include (i) In-vitro cytotoxicity assay for plant extracts: a rapid test protocol, (ii) Cytogenetics of congenital malformation (supported by URC Grant

#DVC/COR.RS/3). The lab had also provided cytogenetic evaluations for leukemia and infertility patients from the Departments of Haematology and OBGYN OAUTHC, Ile-Ife respectively. I have also reactivated the department's ANA 607 – Tissue Culture course at the postgraduate level, which I teach and examine alone. The course, which had been discontinued since 1985, is backed up with practical/demonstrations in the lab.

**Research capacity Building:** I have initiated, pioneered and implemented a series of workshops on the PubMed, which has empowered the research capabilities of many Academic and Clinical researchers and postgraduate students in the biomedical and biosciences fields, from this and other Universities, as well as Resident Doctors from the University Teaching hospitals. The Pub Med is a versatile research database on the Internet for researchers in the biosciences and biomedical fields, including Medicine, Dentistry, Community and Environmental health as well as the entire health care delivery system. It is a free and accessible utility. However, not many researchers are aware of this. The workshop, organized under the auspices of my department and the INTECU, had enhanced the abilities of participants to access, retrieve, store and manage the vast database of life science information on the internet. To date, four editions of the workshop had taken place. Currently, the course is being considered for accreditation as a Continuing Medical Education programme for doctors by the CME Committee of the Medical and Dental Council of Nigeria.

**Departmental collaborations:**

(i) I have initiated collaborations between my department and the Paul-Flechsig Brain Research Institute, University of Leipzig, Germany after my visit in 2001, for academic staff exchange and development. (ii) I equally initiated collaboration between the University of Leipzig, Germany and Obafemi Awolowo University, Ile-Ife, which is being handled by the Linkages Office of this University. This is a multilateral collaboration with all constituent parts of the University. (iii) In 2003, I also established a collaboration between my department and the department of Cell Biology, Oklahoma University Health Sciences Center, Oklahoma City, USA, which will soon enable use utilize the Hippocrates Anatomy web site for the teaching of Anatomy to our Undergraduate students, and save us the current embarrassment of students' over population in our medical program, amongst other things. The report had been forwarded to the University Authority for implementation. This effort is under the Collaborative Africa-America Graduate Schools Project, which is inclusive of similar collaborations with the Department of Anatomy, Howard University, Washington D.C.

**Liver Biopsy Course:** As a resource person on the Liver Biopsy Course between 1996 and 2000, I delivered instructions on the Basic and Clinical Anatomy of the Liver and Biliary systems. This formed the foundation of the course and basis upon which the liver biopsy technique was drawn, to produce highly skilled personnel in the field of Hepatology in this country. For this purpose, I produced a demonstration of the Liver biopsy technique on video, which was being used at the course.

**Invited Peer Reviewer for International Scholastic Journals**

1. Reproductive Toxicology Manuscript # 1618 (2005)
2. PLoS Medicine Manuscript 06-PLME-RA-0663 (2006)
3. Journal of Anatomical Sciences (Assistant Editor)

**Recent Conferences Attended**

1. 4th Annual Scientific Conference of the Neuroscience Society of Nigeria, Ahmadu Bello University, Zaria. March 11-14, 1998.

2. 17<sup>th</sup> biennial joint meeting of the International Society for Neurochemistry and European Society for Neurochemistry, Berlin, Germany, 8<sup>th</sup> -14<sup>th</sup> August, 1999.
3. Second Collaborative Africa-America Graduate Schools Project Symposium, Nairobi, Kenya. 9<sup>th</sup> – 11<sup>th</sup> April 2001.
4. 5<sup>th</sup> Annual Scientific Conference of the Nigerian Association for the Study of the Liver, Obafemi Awolowo University, Ile-Ife, February 21<sup>st</sup> – 23<sup>rd</sup>, 2001.
5. 15<sup>th</sup> Biennial Meeting of the International Society for Developmental neuroscience, Edinburgh, Scotland, 4<sup>th</sup> -7<sup>th</sup> August 2004.
6. Curriculum Conference of the College of Medicine, Delta State University, Abraka, Nigeria, September 25<sup>th</sup> 28<sup>th</sup> September 2004
7. 35<sup>th</sup> Annual meeting of the American Society for Neurochemistry, Waldorf Astoria Hotel, New York, USA, 14<sup>th</sup> -18<sup>th</sup> August, 2004
8. 2<sup>nd</sup> Annual Scientific Conference of the Anatomical Society of Nigeria, University of Calabar, Calabar, Nigeria; September 13<sup>th</sup> - 17<sup>th</sup> 2004.
9. International Conference on ICT Applications in Academics, Industry, Research and Administration. Conference Center, Obafemi Awolowo University, Ile-Ife, Nigeria, 6<sup>th</sup> - 10<sup>th</sup> March, 2005.
10. 3<sup>rd</sup> Annual Scientific Conference of the Anatomical Society of Nigeria, University of Ilorin, Ilorin, 14<sup>th</sup> – 17<sup>th</sup> September, 2005.
11. 16<sup>th</sup> Biennial meeting of the International Society of Developmental Neuroscience, Banff Center, Alberta, Canada, August 24<sup>th</sup> -28<sup>th</sup> 2006. [ISDN 2006]
12. IACUC 101 Course organized by the University of Texas Medical Branch (UTMB) and Texas Branch of the American Association for Laboratory Animal Science (AALAS), with contributions from NIH OLAW, AAALAC and USDA Animal Care, Galveston, Texas April 15<sup>th</sup>, 2008.
13. 2008 Texas Branch of the American Association for Laboratory Animal Sciences [TBAALAS] Annual Meeting, Galveston, Texas, April 16<sup>th</sup> -18<sup>th</sup>, 2008.

### **Invited Presentations**

Invited Speaker, Annual Smithkline-Beecham Hepatology Preceptorship Course Obafemi Awolowo University Teaching Hospitals Complex, Ile-Ife. Nigeria, February 28 - 29, 1996.

Invited Speaker, Annual Smithkline-Beecham Hepatology Preceptorship Course Obafemi Awolowo University Teaching Hospitals Complex, Ile-Ife. Nigeria, February 27<sup>th</sup> – March 1<sup>st</sup> 1997.

Invited lecturer, National Postgraduate Medical College of Nigeria, Faculty of Pathology: pathology revision course for primaries, Obafemi Awolowo University Teaching Hospitals Complex Ile-Ife, Nigeria, 11<sup>th</sup> – 16<sup>th</sup> February 2002.

Invited lecturer, National Postgraduate Medical College of Nigeria, Faculty of Pathology: pathology revision course for primaries, Conference Center, Obafemi Awolowo University, Ile-Ife, 10<sup>th</sup> – 15<sup>th</sup> February 2003.

Invited lecturer, West African College of Physicians, Faculty of Internal medicine: Liver update course, Conference Center, Obafemi Awolowo University, Ile-Ife, July 9<sup>th</sup> -11<sup>th</sup> 2003.

Invited lecturer, National Postgraduate Medical College of Nigeria, Faculty of Pathology: pathology revision course for primaries, Conference Center, Obafemi Awolowo University, Ile-Ife, 9<sup>th</sup> – 14<sup>th</sup> February 2004.

Invited lecturer, First Temporal Bone Dissection course, Obafemi Awolowo University, Ile-Ife 25<sup>th</sup> -27<sup>th</sup> January 2005. Topic: Microanatomy of the Temporal Bone.

Invited lecturer, National Postgraduate Medical College of Nigeria, Faculty of Pathology: pathology revision course for primaries, Conference Center, Obafemi Awolowo University, Ile-Ife, 21<sup>st</sup> – 26<sup>th</sup> February 2005

Invited Speaker, Molecular Biology Seminar Series, Department of Cell Biology, Neurobiology and Anatomy, Biochemistry Division: Loyola University, School of Medicine, Maywood, IL, Chicago; August 29<sup>th</sup> 2006

## CONTRIBUTION TO KNOWLEDGE

**Research Out put:** I provided the first morphological evidence up to date of the presence of reticulin fibres in the tunica albuginea and peritubular tissue of seminiferous tubules of adult rat testes. These fibres are destroyed following alcohol consumption during gestation in the testes of the adult male offsprings. This may result in a high possibility of male sterility, a condition yet to be ascertained in humans affected by fetal alcohol syndrome. Collaborating with colleagues in the Faculty of Pharmacy, we have demonstrated that the toxicity of the anti-malarial extract from *Khaya ivorensis* is dose dependent and the extract is a potent drug, considering the wide range between the therapeutic and toxic doses. We have also shown that the essential oil from *Ocimum gratissimum linn*, promotes wound healing (3a [ii]). Further work has elucidated increased vascular permeability as a mechanism of action of this agent on wound healing. With colleagues in Biochemistry Department, we have demonstrated the neurotoxicity of combined anti-tuberculous drugs on the cerebral cortex of wistar rats.

The influence of alcohol on the developing central nervous system has been a major priority of my research work, which results are most intriguing. Prenatal ethanol exposure (PEE) is deleterious to the developing brain, the effects which persist into adulthood in wistar rats. PEE results in astrogliosis; reticulin formation in the pia mater and neocortical neurodegeneration. These are indications of permanent microchemical distortions of the neuropil of the cerebral cortex. We have also shown that there is a lack of awareness about the possibility of a prevalence of this condition in this country and are making efforts to bring this to the fore front of the Health Care delivery system of this country. Having pioneered and successfully conducted several PubMed workshops for academic and clinical researchers, we have recently shown that most Nigerian doctors are IT non-compliant but they appreciate the significant impact and input of IT to medical practice and we have strongly recommended based on empirical evidence the integration of computer knowledge and IT into core Medical curriculum in Nigeria.

Basically, my research out put has been in three major areas

- (i) Teratology of alcohol on organ-systems (nervous and reproductive systems)
- (ii) Animal toxicological evaluation of some natural plant products and
- (iii) Cytogenetic studies of chromosomal aberrations

This can be summed together as “Evaluation of animal systems (*in-vivo* and *in-vitro*) for toxicological effects of alcohol and some natural plant products”. These are problem areas in our environment that has received insufficient attention (if any) in the past. Results would enhance our knowledge and contribute to ameliorating the different health problems associated with the use, misuse and abuse of such agents in our community.

## OTHER RELEVANT INFORMATION

### Services within Obafemi Awolowo University, Ile Ife.

1. Team Manager, Obafemi Awolowo University Badminton team; (1997-date).
2. Club Manager, Ife Badminton Club, Obafemi Awolowo University, Ile-Ife.
3. Sports Physician, Obafemi Awolowo University Sports Council; (1997-2001)
4. Contingent Physician, Obafemi Awolowo University NUGA team to
  - (i) NUGA games '97, at Bayero University Kano, April 1997;
  - (ii) NUGA games '98, University of Lagos, Akoka, Lagos, September 1998;
  - (iii) 17<sup>th</sup> West African University Games (WAUG) Cotonu, Benin Republic, April 1st – 12th, 1999;
  - (iv) NUGA games '2001, Ahmadu Bello University Zaria, April 2001..
4. Member, Local Organizing Committee, and Chairman, Medical Sub-committee, NUGA '98 Preliminaries, Obafemi Awolowo University; February 1998.
5. Secretary, Reunion '97, of the Ife Medical and Dental Alumni Association.
6. Secretary General, Ife Medical and Dental Alumni Association. (1997 - date).
7. National Scientific Conference of the Neuroscience Society of Nigeria.
8. Protocol Officer, Local Organising Committee, 5<sup>th</sup> Annual Scientific Conference of the Nigerian Association for the Study of the Liver, February 2001.

**Hobbies:** Sports: Badminton; Lawn-Tennis and Table-Tennis, Music and Photography

### Referees:

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