

# **CURRICULUM VITAE**

## **I. PERSONAL INFORMATION**

**Surname:** **OLALEYE**

**Other names:** Samuel Babafemi

**Place of Birth:** Ibadan, Nigeria

**Nationality:** Nigerian

**Marital status:** Married

**Children** Three (Ages: 19, 16 and 13years)

**Present Status** Professor of Physiology since 2012

**Contact:** Department of Physiology,  
Faculty of Basic Medical Sciences  
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**Residence:** No 7, Kurunmi Road, University of Ibadan  
Ibadan, Nigeria

**Permanent home address:** No 4, Oguntinyinbo street, University of Ibadan  
Ibadan, Nigeria

## **II. EDUCATION**

### **Elementary Education:**

| <b>Schools Attended</b>  | <b>Dates</b> | <b>Certificates acquired</b>                                     |
|--|--------------|--|
| • Omolewa Nursery/Primary School, Oritamefa, Ibadan. Ibadan, Nigeria | 1972 - 1979  | Primary School Leaving Certificate                               |
| • Ibadan Grammar School, Molete, Ibadan                              | 1980 - 1982  | -  |
| • Moremi High School, University of Ife. Ile-Ife, Nigeria            | 1982 - 1985  | West African School Certificate (Distinctions in Seven subjects) |
| • Federal Government College, Ilorin. Ilorin, Kwara State            | 1985 – 1986  | Uncompleted Higher school Certificate (HSC) Training             |

### **University Education**

| <b>School</b>                  | <b>Dates</b> | <b>Degree acquired</b>  |
|--------------------------------|--------------|---|
| • University of Ibadan, Ibadan | 1986- 1990   | B.Sc. (Hon.)<br>Second Class (Upper Division)<br>University of Ibadan,<br>September, 1990 |
| • University of Ibadan, Ibadan | 1991- 1992   | M.Sc. (Physiology), PhD grade<br>University of Ibadan<br>October 1992                     |
| • University of Ibadan, Ibadan | 1993- 1999   | Ph.D. (Physiology)<br>University of Ibadan<br>October, 1999                               |

### **III. MEMBERSHIP OF LEARNED SOCIETIES.**

- i. Member, Physiological Society of Nigeria
- ii. Member, African Association of Physiological Sciences
- iii. Member, American Physiological Society
- iv. Member, West African Society for Pharmacologists
- v. Member, Nigerian Society for the Study of Pain (Ibadan, Nigeria).
- vi. Member, International Association for the study of pain (IASP), USA.

### **IV. SCHOLARSHIPS, FELLOWSHIPS, PRIZES, HONOURS AND DISTINCTIONS (In respect of undergraduate and postgraduate work only).**

- Federal Government of Nigerian Postgraduate Scholarship award (1991 – 1992).
- Postgraduate Research Grant awarded by the Oyo State Government (1992).
- Merit award from Sokoto state government for the 1990/91 National Youth Service Year (as corps member) - September 1991.
- Special honours award for Sokoto state N.Y.S.C. committee – September 1991.
- John, D. and Catherine, T. MacArthur Foundation and University of Ibadan Staff Development Grant for Post-Doctoral Fellowship to the Department of Physiology, University of Hong Kong (2005 - 2006).
- Co-founder, Biomedical Communications Group, Ibadan, Nigeria
- Managing Editor, African Journal of Biomedical Research - 1998 - 2015
- Editor-in-Chief, African Journal of Biomedical Research - 2016 – date
- Deputy Editor, Nigerian Journal of Physiological Sciences - 2011 – date
- Managing Editor, Archives of Basic and Applied Sciences - 2013 – date
- Secretary General, Ibadan Physiological Society of Nigeria - 2007 – 2011
- Secretary General, Ibadan College of Medicine Alumni Association- 2007 – 2011
- Secretary General, Ikolaba Residents Association. Ikolaba, Ibadan - 2003 – 2011

## V. DETAILS OF TEACHING AND RESEARCH EXPERIENCE AT UNIVERSITY LEVEL.

### 1. Years of Experience

I have a total of seventeen years of teaching experience at the University level (1990 – 2007) as detailed below:

| S/N    | INSTITUTION  | POSITION  | DATE                              |
|--------|--|---|-----------------------------------|
| (i)    | Department of Physiology,<br>Usman Danfodio University,<br>Sokoto, Nigeria                           | Corper Graduate Assistant<br>( <i>National service</i> )        | Oct. 1990 – Sept. 1991            |
| (ii)   | Department of Physiology,<br>College of Medical Sciences,<br>University of Maiduguri, Nigeria        | Assistant lecturer  | March 1993 – May, 1995            |
| (iii)  | Department of Physiology,<br>Faculty of Health Sciences,<br>University of Ilorin                     | Assistant lecturer  | June 1995 – April 1996            |
| (iv)   | Department of Physiology,<br>College of Medicine,<br>University of Ibadan, Nigeria                   | Lecturer II   | April 1996 to Sept. 1999          |
| (v)    | Department of Physiology,<br>College of Medicine,<br>University of Ibadan, Nigeria                   | Lecturer I  | October 1999–Sept. 2002           |
| (vi)   | Department of Physiology,<br>College of Medicine,<br>University of Ibadan, Nigeria                   | Senior Lecturer   | October 2002 to<br>September 2007 |
| (vii)  | Department of Physiology,<br>College of Medical Sciences,<br>University of Maiduguri, Nigeria        | Visiting Senior Lecturer  | February 2002 – August<br>2004    |
| (viii) | Department of Pharmacology,<br>University of Hong Kong,<br>Hong Kong SAR, China                      | Research Associate  | January 2006 to<br>July 2006      |
| (ix)   | Department of Physiology,<br>College of Medical Sciences,<br>Niger Delta University                  | Visiting Reader   | August 2006 to<br>July. 2007      |
| (x)    | Department of Physiology,<br>College of Medicine,<br>University of Ibadan, Nigeria                   | Reader  | October 2007 to<br>September 2012 |
| (xi)   | Department of Physiology,<br>College of Medicine,<br>University of Ibadan, Nigeria                   | Professor   | October 2012 to date              |
| (xii)  | Department of Physiology,<br>Babkok University,<br>Ilishan Remo, Ogun State. Ng                      | Visiting Professor  | October 2011–December<br>2014     |
| (xiii) | Department of Physiology,<br>Igbinedion University,<br>Okada, Edo State. Nigeria                     | Visiting Professor  | August 2014– January<br>2014      |
| (xiv)  | Department of Physiology,<br>Kampala International<br>University (Western Campus),<br>Ishaka, Uganda | Visiting Professor<br>(Sabbatical leave)                        | February 2015–January<br>2016     |
| (xv)   | Department of Physiology,<br>College of Medical Sciences,<br>University of Maiduguri, Nigeria        | Visiting Professor  | December 2016–date                |
| (xvi)  | World Health Organisation<br>Freetown office   | WHO teaching consultant<br>to the University of Sierra<br>Leone | August 2017 – July 2018           |

## 2. Subjects taught

I have taught at various times all the systems in Physiology and arranged tutorial and practical classes in Physiology to the following groups of students:

| s/n    | Student category                         | University   | Year         |
|--------|--|--|--------------|
| (i)    | 200 level and 300 level M.B.B.S          | Usman Danfodio Univ, Sokoto<br>University of Maiduguri<br>University of Ilorin, Ilorin<br>University of Ibadan, Ibadan<br>Babkok University, Ilishan<br>Igbinedion University, Okada | 1990 to date |
| (ii)   | 200 - 400 level B.Sc. (Physiology)       | University of Ilorin, Ilorin<br>University of Ibadan, Ibadan<br>Babkok University, Ilishan<br>Igbinedion University, Okada   | 1995 to date |
| (iii)  | 200 and 300 level B.D.S. students        | Ibadan   | 1996 to date |
| (iv)   | 200 level B.Sc. (Nursing) students       | University of Ibadan, Ibadan<br>Babkok University, Ilishan<br>Igbinedion University, Okada   | 1996 to date |
| (v)    | 200 level B.Pharm. Students              | University of Ibadan, Ibadan<br>Babkok University, Ilishan<br>Igbinedion University, Okada   | 1996 to date |
| (vi)   | 200 level B.Sc. (Physiotherapy) students | Ibadan   | 1996 to date |
| (vii)  | 300 level B.Sc Biochemistry Students     | Ibadan   | 1996 to date |
| (viii) | 300 level B.Sc Human Nutrition           | Ibadan   | 1996 to date |
| (ix)   | Nurse/Midwife Tutors Course students     | Ibadan   | 1996 to date |
| (x)    | Primary Health Tutors Course Students    | Ibadan   | 1996 to date |
| (xi)   | Science Laboratory Technology            | Maiduguri and Ibadan   | 1993 - 2001  |
| (xii)  | M.Sc Physiology Students                 | Ibadan   | 2001 to date |
| (xiii) | 200 level B.Med. Lab Sci. Students       | University of Ibadan, Ibadan<br>Babkok University, Ilishan<br>Igbinedion University, Okada   | 2012 - date  |

## 3. Project Supervision

### Details of Students Project Supervision

*Completed (1992-2017)*

| B.Sc. | M.Sc. | M.Phil. | Ph.D. |
|-------|-------|---------|-------|
| 75    | 46    | 4       | 9     |

*In progress*

| B.Sc. | M.Sc. | M.Phil. | Ph.D. |
|-------|-------|---------|-------|
| 2     | 2     | 2       | 8     |

### List of M.Phil and Ph.D Projects Supervised

| S/No. | Names             | Titles of Theses/Dissertations  | Degree | Years of Award |
|-------|-------------------|---|--------|----------------|
| 1     | Ige Serah.F       | Effect of Kolaviron on experimental Colitis in Rats   | M.Phil | 2011           |
| 2     | Ajeigbe Kazeem O  | Effects of Chloroquine, Amodiaquine, Sulfadoxine-Pyremethamine and Artesunate on Gastric Acid Secretion in Rats | M.Phil | 2011           |
| 3     | Adeniyi Olasupo S | Effects of Thyroidectomy and Thyroxine Treatment on   | Ph.D   | 2011           |

|    |                   |  |        |      |
|----|-------------------|--|--------|------|
|    |                   | Gastric Ulcer Healing in Rats  |        |      |
| 4  | Adeleye, Gbenga S | Delayed Healing of Acetic Acid -Induced Ulceration in The Stomach of Lead-Exposed Rats                                   | Ph.D   | 2013 |
| 5  | Ebunlomo O.O      | Effects of Chloroquine, Arthemeter-Lumenfantrine and Artesunate on Experimental Colitis in Rats                          | M.Phil | 2014 |
| 6  | Ajayi Ayodeji F   | Age Related Changes in Gastric Ulcer Healing in Rats   | Ph.D   | 2014 |
| 7  | Ige Serah.F       | Effects of Kolaviron and The Biflavanones of <i>Garcinia Kola</i> (Heckel) on Acetic Acid-Induced Colitis in Wistar Rats | Ph.D   | 2015 |
| 8  | Ajeigbe Kazeem O  | Effects of Artemisinin-Based Combination Drugs On Gastric Ulcer Healing in Wistar Rats                                   | Ph.D   | 2015 |
| 9  | Morakinyo Olanike | Attenuation of Experimental Gastric Ulceration by Chromium in Rats   | M.Phil | 2016 |
| 10 | Odukanmi Adeola O | Effect of Trivalent Chromium on Normal and Injured Gastrointestinal Tract of Laboratory Rodents                          | Ph.D   | 2016 |
| 11 | Omayone Tosan     | Effect of Sodium Metavanadate On Gastrointestinal Injury and Inflammation in Rats  | PhD    | 2016 |
| 12 | Adegoke Gbemisola | Attenuating Effects of Kolaviron On Experimental Colitis in Wistar Rats During Chronic Cadmium Exposure                  | Ph.D   | 2017 |
| 13 | Adebayo Grace I   | Reversal of Sodium arsenite-induced delay in ulcer healing in rats by Kolaviron, Vitamin E and Zinc                      | PhD    | 2017 |

#### 4. Examination assignment outside the University

- (i) Postgraduate Examiner - West African College of Surgeons. October 2001 to date
- (ii) External Examiner – University of Ilorin, Nigeria- 2005 to 2010; 2016 - date
- (iii) External Examiner – University of Maiduguri, Nigeria- 2006 to date
- (iv) External Examiner – Ladoke Akintola University, Ogbomosho, Nigeria - 2006 to date
- (v) External Examiner – Usmanu Danfodiyo University, Sokoto, Nigeria - 2010 to date
- (vi) External Examiner – Ambrose Alli University, Ekpoma, Nigeria- 2009 to date
- (vii) External Examiner – Igbinedion University, Okada, Nigeria- 2010 to date
- (viii) External Examiner – University of Lagos, Nigeria- 2016 to date
- (ix) External Examiner – Obafemi Awolowo University, Ile-Ife, Nigeria- 2016 to date

- (x) External Examiner for M.Sc Disertation - University of the Witwatersrand, South Africa
- (xi) External Examiner for PhD thesis - University of Ilorin, Nigeria 2017
- (xii) External Examiner for PhD thesis - University of the Witwatersrand, South Africa
- (xiii) External Examiner for PhD thesis - University of the Kwazulu-Natal, South Africa

## 5. Administrative Experience

- a. Coordinator, Departmental Teaching and Practical Time-Table. I was assigned the job of preparing the draft of ALL time tables for both lectures and practical sessions in my department by the head of my Department - 2003 to 2005
- b. Coordinator, continuous Assessment Tests for MBBS/BDS students and PIO Course Examinations 1999 to 2006
- c. Coordinator for the B.Pharm. programme, Department of Physiology - 2001 to 2004
- d. Chairman, Computer committee, Department of Physiology - 1999 to 2007
- e. Member, welfare committee, Department of Physiology - 1999 to 2007
- f. Representative of Department of Physiology on the board of the Faculty of Pharmacy, University of Ibadan - 2003 to 2006
- g. Member, Departmental Finance Committee 1999 to 2005
- h. Senate Representative on University Telephone Committee, University of Ibadan - 2003 to 2006
- i. Faculty of Basic Medical Sciences Representative to Senate Computer Committee 2009 to date
- j. Member, Central ICT committee, University of Ibadan 2009 - date
- k. Elected Member, Academic Board, College of Medicine, University of Ibadan 1998 to date
- l. Elected Member, Senate - University of Ibadan - 2007 to date.
- m. Sub-Dean (Postgraduate), Faculty of Basic Medical Sciences, University of Ibadan - 2010 to 2014
- n. Head, Department of Physiology, Kampala International University, Western campus, Ishaka Uganda - 2014 - 2015

## Organisational ability

Since 2002, I have been involved in organization of many workshops and conferences as follows:

| S/N | Year            | Event  | Role plated          |
|-----|-----------------|--|----------------------|
| 1   | September, 2002 | Pre-conference workshop on Manuscript writing for the Physiological Society of | Workshop facilitator |

|    |                 |  |                                       |
|----|-----------------|--|---------------------------------------|
|    |                 | Nigeria  |                                       |
| 1  | September, 2002 | 23 <sup>rd</sup> Annual conference of the Physiological Society of Nigeria   | Secretary, Local Organizing Committee |
| 2  | June 2008       | Workshop on molecular biology techniques in Biomedical Sciences by the Faculty of Basic Medical Sciences, University of Ibadan | Workshop Secretary                    |
| 3  | July 2008       | First Unibadan Conference of Biomedical Research   | Programme Director                    |
| 4  | August, 2010    | Second Unibadan Conference of Biomedical Research  | Programme Director                    |
| 5  | July 2012       | Medical Education Partnership in Nigeria workshop on Manuscript writing and data analysis                                      | Workshop facilitator                  |
| 6  | July 2012       | Third Unibadan Conference of Biomedical Research   | Programme Director                    |
| 7  | June 2014       | 23 <sup>rd</sup> Annual conference of the Physiological Society of Nigeria   | Chairman, Local Organizing Committee  |
| 8  | November 2014   | Medical Education Partnership in Nigeria workshop on e-Learning and Medical education  | Workshop facilitator                  |
| 9  | February 2016   | Interactive session on Drosophila Models for Biomedical Research   | Facilitator                           |
| 10 | March 2016      | Medical Education Partnership in Nigeria workshop on e-Learning and Medical education  | Speaker                               |
| 11 | June 2016       | PowerLab Training and update workshop (sponsored by the Medical Education Partnership in Nigeria)                              | Workshop facilitator                  |

## IX RESEARCH

### (i.) COMPLETED:

- (a) Dietary and environmental factors in ulcerogenesis
- (b). Involvement of Catecholamines in Thyroid pathophysiology
- (c). Natural products with both anti-inflammatory and antiulcer properties

### (ii.) IN PROGRESS:

#### (a). Cellular mechanisms of Catecholamine action in the stomach

The exact role of the catecholaminergic system in the stomach is being investigated using molecular approach. Results so far obtained has made further investigations on the role of beta-2 and beta-3 adrenoceptors very imperative

#### (b). Mechanism of antiulcerogenic and ulcer healing effects of Kolaviron

Cellular mechanisms are being worked out for the anti-ulcerogenic effect of the flavonoid fraction from the seed of *Garcinia kola*. Specifically, the roles of apoptosis, cell proliferation and cell migration are being investigated.

**(c). Trace elements' interference with gastric ulcer healing**

This is an ongoing study to elucidate the role of trace elements like Lead and Cadmium on the gastrointestinal ulcer healing processes using macroscopic, *microscopic*, biochemical and molecular approaches

**(d). Malaria and Anti-malarial drugs and ulcer healing**

The findings from previous studies by Bolarinwa (1975) that gastric acid secretion is increased in rats parasitized with *Plasmodium* prompted a series of investigations on how malaria and the drugs commonly used in its management affects ulcer healing processes. Results obtained so far have yielded interesting results.

**(e) Thyroid status and ulcer healing processes in the gastrointestinal tract**

This is a follow up study to an earlier finding that altered thyroid states affect a number of gastrointestinal functions. The response of hypothyroid and hyperthyroid rats to gastrointestinal inflammation induced by known agents are being investigated.

**(iii). Dissertation and Thesis**

- (a) Effects of alpha and beta adrenoceptor blocking agents on indomethacin-induced peptic ulceration in albino rats.

*B.Sc. Physiology dissertation, University of Ibadan (1990)*

- (b) The role of thyroid gland in blastocyst implantation in albino rats.

*M. Sc.. (Physiology) dissertation, University of Ibadan (1992)*

- (c) Thyroid Hormone-Catecholamine interaction in the gastrointestinal tract of laboratory mammals. *Ph.D. thesis, University of Ibadan (1999)*

## **X PUBLICATIONS**

- (a) (i) Books or chapters in books already published:** Nil

- (ii) Patents:** Nil

**(iii) Articles that have already appeared in learned journals.**

1. Akinniyi, J.A; **Olaleye, S.B.**; Salami, H.A; Hussainy, A.Y and Moses, F.M. (1995). Gastric acid Secretory Response of Aqueous Extract of the Root of *Securidaca longipedunculata*. Bioscience Research Communications. Volume 7 (2): 169-173 (Nigeria)
2. Ibrinke, G.F and **Olaleye, S.B.** (1996): Mechanism of Antiulcerogenic Effect of Propranolol on gastric lesions: The Role of Histamine and Alpha Adrenoceptor Blockade in the Rat. Bioscience Research Communications. Volume 8 (2): 255-258. (Nigeria)
3. Ibrinke, G.F; **Olaleye, S.B.**; Balogun, O and Aremu, D.A (1997): Effect of Diets Containing Seeds of *Garcina Kola* (Herckel) On Gastric acidity and Experimental Ulceration in Rats. Phytotherapy Research, Volume 11, 312-313. (United Kingdom).
4. Bolarinwa, A.F and **Olaleye, S.B.** (1997). Blastocyst implantation – Effects of thyroidectomy and Thyroxine Replacement in the Rat. African Journal of Medicine and Medical Sciences, Volume 26 (3 & 4): 135-137. (Nigeria).
5. **Olaleye, S.B.** and Salami, H.A (1997): Predictors of Academic Performance In The Pre-Clinical Sciences: Effects Of Age, Sex, And Mode Of Admission At The Maiduguri Medical School. African Journal of Medicine and Medical Sciences, Volume 26 (3 & 4): 19. (Nigeria)



6. **Olaleye, S.B.;** Akinniyi, J.A; Salami, H.A.; Mbajiorgu, F.E and Ameh J.A (1998). Preliminary Study on the Toxicity and Antimicrobial Effects of Extract of *Securidaca longipedunculata*. African Journal of Biomedical Research Volume 1 (1): 39-44. (Nigeria).
7. **Olaleye, S. B.,** Soyannwo, O. A.; Ibironke, G.F; Elegbe, M.C and Elegbe, R.A (1998). Environmental Temperature and Pain Perception in Albino rats. African Journal of Biomedical Research Volume 1 (1): 69-72. (Nigeria).
8. Iranloye, B.O; **Olaleye, S. B.;** Oshatimi, M. A and Ojo, M.O (1999). Effect of Cow's Urine Concoction with or without Garlic On blood glucose level in fasted rats. African Journal of Biomedical Research Volume 2 (2): 99 – 102 (Nigeria). (Percentage contribution: 40%)
9. **Olaleye S.B,** Ajisafe, B. O, Balogun,E.A. and Soladoye, A.O (1998): Effect of Propranolol on the intestinal transport of glucose in thyroidectomised and thyroxine-treated rats. Bioscience Research Communications Volume 10 (4): 277 – 281 (Nigeria).
10. **Olaleye, S.B.;** Iranloye, B.O, Salami, H.A. and Elegbe, R.A (1999). Erythrocyte Osmotic Fragility And other Blood Parameters in Rats Fed with Diets Containing raw and Processed Soybeans (*Glycine Max*). Bioscience Research Communications, Volume 11, No 2: 107-112. (Nigeria).
11. Iranloye, B.O; **Olaleye, S. B.;** Oshatimi, M. A and Ojo, M.O (1999). Effect of Cow's Urine Concoction with or without Garlic On blood glucose level in fasted rats. African Journal of Biomedical Research Volume 2 (2): 99 – 102 (Nigeria).
12. Onwuka, S.K, Avwioro, O.G, Olaifa, A.K and **Olaleye, S.B.** (2000): The distribution of magnesium, zinc and copper in the skin and hair of West African Dwarf sheep. Tropical Journal of Animal Sciences Volume 3 (2): 85 – 91. (Nigeria).
13. **Olaleye, S. B,** Farombi, E.O, Adewoye, E. A, Owoyele, B.V, Onasanwo, S. A and Elegbe, R.A. (2000): Analgesic and anti-inflammatory effects of Kolaviron (A *Garcinia kola* seed extract). African Journal of Biomedical Research 3 (3): 171 – 174 (Nigeria).
14. Ibironke, G.F, **Olaleye, S.B,** Onasanwo, S.A (2001): Effect of extract of *Occimum gratissimum* on gastric acid secretion and indomethacin induced ulceration in rats. Bioscience Research Communications. Volume 13 (6): 689 – 692 (Nigeria)
15. Abu, O.A, Ekpeyong, T.E, **Olaleye, S.B,** Joseph, J.K and Abu, A.O (2001): Performance, organ weights and blood composition of rabbits fed dietary levels of Palm oil Mill Effluent (POME). Tropical Journal of Animal Sciences 4(1): Volume 15 – 24. (Nigeria)
16. Owoyele B.V., **Olaleye S.B,** Oke J.M and Elegbe R.A. (2001). Anti-inflammatory and analgesic activities of leaf extracts of *Landolphia owarensis*. African Journal of Biomedical Research Volume 4 (3): 131 – 134 (Nigeria)
17. **Olaleye, S.B.,** Onasanwo S.A and Elegbe R.A (2002): Analgesic and anti-inflammatory activities of the root extracts of *Securidaca longipedunculata*(Fres). NISEB Journal (the official publication of the Nigerian Society for Experimental Biology): Volume 2 (1): 157 – 164(Nigeria)
18. Owoyele V.B, Wuraola C. O, Soladoye A.O and **Olaleye S.B.** (2003) Studies on the anti-inflammatory and analgesic properties of *Tithonia diversifolia* leaf extract. Journal of Ethnopharmacology. Volume. 90 (2): 317-321(5). (United Kingdom)
19. Anetor, JI, Adeniyi, FAA, **Olaleye, S.B** (2003): Molecular epidemiology: A better approach for the early detection of pathophysiologic response to environmental toxicants and disease. African Journal of Biomedical Research Volume 6 (3):143 – 146 (Nigeria)

20. Owoyele, B.V., **Olaleye, S.B.**, Oke, J.M and Elegbe R.A. (2004). Anti-inflammatory and analgesic activities of *Northospondia staudtii*. Nigerian Journal of Physiological Sciences Volume 19 (1& 2): 102 – 105 (Nigeria)
21. **Olaleye, S.B.**, Etu, A.K, Oke, J.M Omotosho, I.O and Elegbe, R.A. (2004). Anti-oxidant and Anti-inflammatory properties of a flavonoid fraction from the leaves of *Voacanga africana* .Nigerian Journal of Physiological Sciences Volume 18 19 (1&2): 69 – 76 (Nigeria)
22. Owoyele, B.V., Toki, T.O., Etu, A.K., **Olaleye, S.B.** and Soladoye, A.O. (2004): Antinociception produced by Caffeine. The Tropical Journal of Health Sciences Volume 11 (1): 41 – 46 (Nigeria).
23. **Olaleye, S. B.** and Elegbe,R.A. (2005): Acid secretion in isolated and intact stomach of thyroidectomised and thyroxine-treated mice. The Tropical Journal of Health Sciences Volume 12 (2): 35 – 39(Nigeria)
24. **Olaleye, S.B** and Elegbe, R.A. (2005): Catecholamines potentiate the effect of thyroid hormone on intestinal absorption of glucose in the rat. African Journal of Medicine and Medical Sciences, Volume 34 (4), 177 – 183. (Nigeria)
25. **Olaleye, S.B** (2005): Gastroprotective effects of a methanol extract of *Garcinia kola* (*Heckel*) in rats. African Journal of Biomedical Research. Volume 8 (3): 207 - 212(Nigeria)
26. Onasanwo, S.A., **Olaleye, S.B**, Falokun, O.P, Bello-Imam, S.A and Oloyo, A.K. (2005): Antinociceptive and anti-inflammatory properties of *Ocimum gratissimum* in albino rats. Journal of Medicinal and aromatic Plant Research Volume 27(2): 265-271 (India)
27. **Olaleye, S. B** and Farombi, E. O. (2006): Attenuation of Indomethacin- and HCl/Ethanol-induced oxidative Gastric Mucosa Damage in rats by Kolaviron, A natural biflavonoid of *Garcinia kola* seed. Phytotherapy Research Volume 20, 14 - 20 (United Kingdom)
28. **Olaleye, S.B.**, Raji, Y, Onasanwo, S.A, Erigbali, P, Oyesola, S.O, Odukanmi, A, Omotosho, I.O, and Elegbe, R.A (2006): Potentiation of Gastric Ulceration by Experimental Lead Exposure in Rats. Journal of Biological Sciences Volume 6 (3): 480 - 484 (Pakistan)
29. Adeniyi, B.A.; Odufowoke, R. O. and **Olaleye, S.B.** (2006): Antimicrobial and Gastroprotective Properties Of *Eucalyptus Torelliana* [Myrtaceae] Crude Extracts. International Journal of Pharmacology Volume 2 (3): 362 – 365 (Pakistan)
30. Adeniyi, B.A.; Odufowoke, R. O. and **Olaleye, S. B.** (2006): Antimicrobial and Gastroprotective Properties Of *Eucalyptus Camouldulensis* [Myrtaceae] Crude Extracts. Journal of Biological Sciences Volume 6 (6): 1141 – 1145 (Pakistan)
31. Raji, Y., Osonuga, O.A, **Olaleye, S. B.**, Adedokun K.I., Akinsomisoye S. and Mewoyeka O.O. (2006): Comparative Activities of Chloroquine, Mefloquine and Sulphadoxine-pyrimethamine on *in vivo* and *ex vivo* Male Reproductive Functions in Mammalian Models. Journal of Medical Sciences., Volume 6 (3): 410-415 (Pakistan)
32. **Olaleye, S.B**, Adaramoye, O. A., Erigbali, P. P., Adeniyi, O. S. (2007): Lead exposure increases oxidative stress in the gastric mucosa of HCl/ethanol-exposed rats. World Journal of Gastroenterology. Volume 13(38): 5121 -5126 (China)
33. Raji Y, Kunle-Alabi O T., **Olaleye S.B.**, Gbadegesin M.A., Awobajo F.O, Osonuga O.A., Odukanmi A.O, Salami S.A and Bolarinwa A. F. (2007): Impact of a-tocopherol on

- Metronidazole and Tetracycline-induced Alterations in Reproductive Activities of Male Albino Rats. *Journal of Biological Sciences* Volume 7 (1): 41-46. (Pakistan)
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**STATEMENT OF RESEARCH FOCUS AND CONTRIBUTION TO SCHOLARSHIP**

The major forte of my research activities has been in the area of dietary and environmental factors in gastrointestinal inflammation and secretion. Although stress has been implicated as a possible factor responsible for the observation that the incidence of gastrointestinal ulceration and inflammation is increasing across the globe, the possibility of the involvement of other factors such as exposure to potential ulcerogens such as diets and environmental toxicants may not be ruled out.

I have been involved in the screening of natural products from the tropical environment for combined anti-inflammatory and antiulcer activities. This interest came out of the fact that most of the readily available drugs for the management of pain and inflammation (such as the non-steroidal anti-inflammatory drugs) have a major side effect- they are ulcerogenic and pro-apoptotic in the stomach. Plants such as *Garcinia kola*, *Landolphia owarensis*, *Securidaca longipedunculata*, *Tithonia diversifolia*, *Voacanga Africana* and *Occimum grattisimum* have been shown to have potent anti-inflammatory activities. However, only *Garcinia kola* and *Landolphia owarensis* have proven to have great potential as combined anti-inflammatory and antiulcer agents. Attempt was made to look for the active principle in *G. kola* responsible for the anti-inflammatory and antiulcer properties. The flavonoid fraction – Kolaviron was found to be a very potent antiulcer agent which reduces the pro-oxidative action of ulcerogenic agents such as indomethacin and ethanol. A number of other natural products like those from *Eucalyptus torrelliana*, *Eucalyptus camouldulensis* and *Bryophyllum pinnatum* have been shown to have potent antiulcer activities, but the active compounds in these extracts are still been investigated. It is also worthy of note that most of the candidate products found to be antiulcerogenic also possess antimicrobial activities. The possibility that the ability of these agents to inhibit *helicobacter pylori* (another important ulcerogenic factor) is under investigation in my laboratory.

Based on studies reporting high content of heavy metals in meat consumed in tropical climate, I started work on the role of some of the heavy metals in ulcerogenesis. Results obtained so far showed that Lead increases the incidence of ulceration induced by stress, indomethacin and ethanol. One of the likely mechanisms by which lead exposure increases incidence of gastric ulcer is via induction of oxidative stress in the stomach.

In recent times, we have developed interest in the use of *Drosophilla* as a model for studying gastrointestinal functions and we await the initial results



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Signature

12<sup>th</sup> September 2019

Date