



## 2022 PROMOTION EXERCISE CURRICULUM VITAE

### I

- a. **Name:** Olugbenga Adeola **Odukanmi**
- b. **Date of Birth:** 05 October, 1978
- c. **Department:** Physiology
- d. **Faculty:** Basic Medical Sciences

### II.

- a. **First Academic Appointment:** Lecturer II
- b. **Present Post(with date):** Senior Lecturer (01 October, 2019)
- c. **Date of Last Promotion:** 01 October, 2019
- d. **Date Last Considered (in cases where promotion was not through):**

### III. **University Education (with dates)**

- a. University of Ilorin, Ilorin, Nigeria 1998 - 2001
- b. University of Ibadan, Ibadan, Nigeria 2004 - 2006
- c. University of Ilorin, Ilorin, Nigeria 2003 - 2009
- d. University of Ibadan, Ibadan, Nigeria 2011 - 2016
- e. University of Washington 2019 - 2019

**IV. Academic Qualifications (with dates and granting bodies)**

- a. B.Sc. (Physiology) 2001  
University of Ilorin, Kwara State, Nigeria
- b. M.Sc. (Physiology) 2006  
University of Ibadan, Ibadan, Nigeria
- c. M.B.B.S. (Medicine and Surgery) 2009  
University of Ilorin, Ilorin, Nigeria
- d. Ph.D. (Physiology) 2016  
University of Ibadan, Ibadan, Nigeria

**V. Professional Qualifications and Diplomas (with dates)**

- a. Certificate Global Health Project Management 2019  
University of Washington

**VI. Scholarships, Fellowships and Prizes (with dates) in respect of Undergraduate and Postgraduate work only**

- a. TETFund–Academic Staff Training and Development (AST and D) Research Grant 2015 to Department of Biotechnology, Maebashi Institute of Technology, Gunma, Japan
- b. Nigeria Field Epidemiology and Laboratory Training Program (NFELTP) 2019 Scholarship
- c. \$ 6,940.00 CDC/TEPHINET Cardiovascular Disease small grant award to 2021 investigate "Quality of Systemic Hypertension Management in Primary Health Centres in Oyo State, Nigeria: A Rural-Urban Comparative Study"

**VII. Honours, Distinctions and Membership of Learned Society:**

- a. President University of Ilorin Physiology Students' Association 2000
- b. Best M.Sc. Graduate Department of Physiology, University of Ibadan 2006
- c. Member- Nigerian Medical Association (NMA) 2009
- d. Federal Medical Centre Ido- Ekiti, Department of Medicine Nominee to the 2010 Vascular Access Surgery Workshop at Krown Hospital Lagos, supported by Fortis Hospital, Bangalore, India
- e. Member- The Physiological Society (TPS), UK 2012
- f. Ekiti State University Nominee to Advanced Digital Appreciation Programme for 2012 Tertiary Institutions (ADAPTI) Training workshop, Digital Bridge Institute, Lagos, Nigeria
- g. Ekiti State University College of Medicine Nominee to the workshop on Proposal 2012 writing and Grant sourcing, Ekiti State University Ado-Ekiti, Nigeria
- h. Member- Physiological Society of Nigeria (PSN) 2013
- i. Department of Physiology, University of Ibadan Nominee on grants writing for early 2013 stage researchers/ training workshop, University of Ibadan and NIH sponsored
- j. The Physiological Society UK travel grant to attend AD Instruments Physiology 2013 Teaching Workshop at the University of Bristol, UK, and 37th IUPS congress in Birmingham

- k. University of Ibadan travel grant to attend The Physiological Society Joint Themed Meeting in Epithelia & Membrane Transport and Vascular & Smooth Muscle Physiology, Dublin 2013
- l. Member-African Association of Physiological Society (AAPS) 2014
- m. Department of Physiology Nominee at the Medical Education Partnership Initiative in Nigeria (MEPIN) training workshop on mentoring, held at College of Medicine, University of Ibadan 2014
- n. Awarded Best Lecturer in the Department of Physiology by University of Ibadan Physiology Students' Association, (UIPSA) 2014
- o. Member- American Neurogastroenterology and Motility Society (ANMS) 2015
- p. The Physiological Society, UK, travel grant to attend a Workshop on "Quantifying nucleic acids by real-time PCR", held at King's College, 2015
- q. Research Associate at the Department of Biotechnology, Maebashi Institute of Technology, Maebashi-City, Gunma Japan 2015
- r. Member – European Society of Neurogastroenterology and Motility (ESNM) 2016
- s. Medical Education Partnership Initiative in Nigeria (MEPIN) Skills laboratory training workshop to Faculty of Medicine Clinical Skills laboratory, University of Zambia, Lusaka 2016
- t. Medical Education Partnership Initiative in Nigeria (MEPIN) Skills laboratory training workshop to College of Medicine, Skills laboratory, University of Ilorin, Ilorin, Nigeria 2016
- u. Awarded Best Male Lecturer in the Department of Physiology by University of Ibadan Physiology Students' Association, (UIPSA) 2016
- v. Member- African Society of Drosophilists 2017
- w. Departmental Nominee to attend CARTA Capacity Development Joint Training Workshop for University Faculty, Administrators and Staff at the College of Medicine, University of Ibadan, Ibadan London 2017

- x. Faculty of Basic Medical Sciences' Nominee at the 3rd Annual Symposium African 2019  
Forum 2019 for Research and Education in Health (AFREhealth) held at Lagos  
Continental Hotels, Victoria Island, Lagos, Nigeria
- y. University of Ibadan, Animal Care, and Use Research Ethics Committee 2021  
(ACUREC) Nominee to attend the 2021 Research Ethics Workshop

**VIII. Details of Teaching/Work Experience:****a. Undergraduate:**

- i. Taught 200 Level Environmental Health Sciences (B.Sc.), University of Ibadan 2019
- ii. Taught 200 and 300 level MBBS (Medicine and Surgery), Ekiti State University, Ado-Ekiti,
- iii. Taught 200 and 300 Level Medicine and Surgery (M.B.B.S.), University of Ibadan 2013 to date
- iv. Taught 200 and 300 Level B. NS, University of Ibadan 2013 to date
- v. Taught 200 Level Physiotherapy (B.Sc.) students, University of Ibadan, 2013 date
- vi. Taught 200 Level Medical Lab (BMLS), University of Ibadan 2015 to date
- vii. Taught 200 Level Pharmacy (B.Pharm), University of Ibadan 2013 to date
- viii. Examination assignments outside the University of Ibadan: External Examiner for MBBS Part I Degree Examinations/ Bowen University, Iwo, Osun State, Nigeria, 2022; External Examiner for MBBS Part I Degree Examinations/ LAUTECH, Ogbomosho, Oyo State, Nigeria, 2022
- ix. I have supervised over 40 B.Sc. Projects to date
- x. I am currently supervising six B.Sc. Projects for the year 2021/2022 session

**b. Postgraduate:**

- i. Taught Nutrition (M.Sc.) Students, University of Ibadan, 2017 to date
- ii. Managing Editor, African Journal of Biomedical Research (AJBR)
- iii. Taught Physiology (M.Sc.) Students, University of Ibadan, Ibadan 2019 to date
- iv. I have co-supervised 6 M.Sc. dissertations
- v. I am currently supervising 2 M.Sc. dissertations
- vi. I have co-supervised 3 Ph.D. theses in the Department of Physiology
- vii. I am currently co-supervising 1 Ph.D. thesis

**c. Administrative Duties:**

- i. Member Department of Physiology Welfare Committee, 2016 to 2022
- ii. Member College of Medicine Education Unit University of Ibadan 2014 to date
- iii. Member Department of Physiology Finance Committee, 2016 to date
- iv. Departmental Coordinator MBBS/BDS programme 2014 to 2016

- v. Member Department of Physiology Committee on the use of Exercise Physiology and Performance Laboratory, 2016 to 2022
  - vi. Assistant Departmental Coordinator MBBS/BDS programme 2016 to date
  - vii. Assistant Coordinator, M.Sc. Biomedical Education Programme, Faculty of Clinical Science, University of Ibadan, 2019 to date
  - viii. Member, College of Medicine Curriculum Review Committee 2021 to date
  - ix. Member, Faculty of Basic Medical Sciences Lecture Committee 2021 to date
  - x. Coordinator, Department of Physiology Seminars 2021- 2022
  - xi. Departmental Coordinator for PIO 205, 206 and 207 for B.Pharm.; B.Ns., B. Physiotherapy, B. MLS, B. Environmental Science 2021 to date
  - xii. Member, College of Medicine COVID-19 Committee 2020 to date
- d. Community Service:**
- i. Resource Personnel to West African College of Surgeons-Faculty of Dentistry Revision Course (Physiology), 2016 to date
  - ii. Associate Editor, Archives of Basic and Applied Medicine (ABAM), 2019 to date
  - iii. Editorial Assistant, African Journal of Biomedical Research (AJBR), 2015 to date
  - iv. Resource Personnel to West African College of Physicians, Faculty of Pathology, Revision Course (Physiology) 2019 to date
  - v. Scientific content and Production Manager, Nigerian Journal of Physiological Sciences (NJPS)
  - vi. Federal Government / Nigeria Centre for Disease Control and Prevention - Deployment as a member of the Rapid Response Team that responded to COVID-19 pandemic in Lagos State, Nigeria, February to August 2020
  - vii. Federal Government / Nigeria Centre for Disease Control and Prevention (NCDC) - Deployment as a member of the National Rapid Response Team to support the upsurge of COVID-19 cases in Rivers State, Nigeria, August 2021
  - viii. US-CDC/NSTOP - Deployment as member of a Management Support Team (MST) to Oyo State for measles vaccine campaign and other integrated SIAs, 2022
  - ix. US-CDC/NSTOP - Deployment as member of a Management Support Team (MST) to Lagos, Osun, Oyo, Cross River, Akwa-Ibom, Delta on outbreak response (OBR) to Circulating Vaccine-Derived Polio Virus 2 (cVDPV2), 2020 to 2022

## **IX**      **Research**

### **a.      Completed**

- i. Serum protein in Health and Diseases.
- ii. Effects of trivalent chromium on normal and injured gastrointestinal tract in laboratory rodents
- iii. Intestinal handling of glucose in normal and diabetic rats in the presence of anti-hyperglycemic agents.

### **b.      In Progress**

- i. Effect of environmental factors and physiological alterations on glucose uptake and intestinal motility
- ii. Effect of alterations of certain physiological situations and the subsequent effect on intestinal motility and intestinal absorptive properties in such conditions.

### **c.      Project, Dissertation and Thesis**

- i. Serum protein in Health and Diseases, B.Sc. Dissertation
- ii. Intestinal handling of glucose in normal and diabetic rats in the presence of anti-hyperglycemic agents, M.Sc. Dissertation
- iii. Effects of trivalent chromium on normal and injured gastrointestinal tract in laboratory rodents, Ph.D. Thesis



## X. Publications

a. **Books already published: Nil**

b. **Chapters in books already published: Nil**

c. **Articles that have already appeared in Refereed Conference Proceeding: Nil**

d. **Patents and Copyrights: Nil**

e. **Articles that have already appeared in learned journals:**

1. Adebisi, S.A., Soladoye, A.O., Adekoya, A. and **Odukanmi, O.A.** (2001). Serum protein pattern in health, diabetes, and malaria. *Tropical Journal of Health Sciences* Vol.8. No.1:11-13pp (Nigeria) (Contribution: 20%)
2. Adebisi, S.A., Soladoye, A.O., Adekoya, D. and **Odukanmi, O.A.** (2002). Serum protein fractions of Nigerians with plasmodium infections: Ilorin experience. *African Journal of Clinical and Experimental Microbiology* Vol.3. No.2:82 - 84pp (Nigeria) (Contribution: 20%)
3. Olaleye, S.B., Raji, Y., Onasanwo, S.A., Erigbali, P., Oyesola, S.O., **Odukanmi, O.A.**, Omotosho, I.O. and Elegbe, R.A. (2006). Potentiation of gastric ulceration in experimental lead exposure in rats. *Journal of Biological Science* Vol.6.No.3:480 -484pp (Pakistan) (Contribution: 20%)
4. Raji, Y., Kunle-Alabi, O.T., Olaleye, S.B., Gbedegesin, M.A., Awobajo, F.O., **Odukanmi, O.A.**, Salami, S.A. and Bolarinwa, A.F. (2007). Impact of  $\alpha$  tocopherol on metronidazole and tetracycline – induced alterations in reproductive activities of male albino rats. *Journal of Biological Science* Vol.7. No.1:41 - 46pp (Pakistan) (Contribution: 20%)
5. Olaleye, S.B., Owoyele, B.V. and **Odukanmi, O.A.** (2008). Antiulcer and gastric antisecretory effects of *Landolphia owariensis* extracts in rats. *Nigerian Journal of Physiological Sciences* Vol.23. No.-1:23 - 26pp (Nigeria) (Contribution: 30%)

6. Ajayi, S.A., **Odukanmi, O.A.** and Ojo, G.B. (2012). The protective effect of kolaviron on renal function of female wistar rats treated with clomiphene citrate. *Journal of Pharmaceutical and Scientific Innovation* Vol.1. No.3:102 - 107pp (India) (Contribution: 40%)
7. Ojewale, A.O., Adekoya, A.O., **Odukanmi, O.A.**, Olaniyan, O.T., Ogunmodede, O.S. and Dare, B.J. (2013). The protective effect of ethanolic roots extract of *Pseudocedrela kotschy* on some hematological and biochemical parameters in alloxan-induced diabetic rats. *World Journal of Pharmacy and Pharmaceutical Sciences* Vol.2. No.2:852 - 866pp (Afghanistan) (Contribution: 20%)
8. Ojewale, A.O., Olaniyan, O.T., Yemitan, O.K., **Odukanmi, O.A.**, Dare, B.J., Nnaemeka, W.S., Omoaghe, O., Akingbade, A.M. and Ogunmodede, O.S. Adebari, A.O. (2013). Hypoglycemic and hypolipidemic activities of ethanolic roots extract of *Crossopteryx febrifuga* in alloxan-induced diabetic rats. *Mintage Journal of Pharmaceutical and Medical Sciences* Vol.2. No.3:1 - 4pp (India) (Contribution: 20%)
9. Ojewale, A.O., Olaniyan, O.T., Faduyile, F.A., **Odukanmi, O.A.**, Oguntola, J.A. and Dare, B.J. (2014). Testiculo-Protective effects of ethanolic extract of *Pseudocedrela kotschy* on alloxan induced testicular damage in diabetic rats. *British Journal of Medicine and Medical Research* Vol.4. No.1:548 - 563pp (India) (Contribution: 20%)
10. Ojewale, A.O., Adekoya, A.O., Faduyile, F.A., Yemitan, O.K. and **Odukanmi, O.A.** (2014). Nephroprotective activities of ethanolic roots extract of *Pseudocedrela kotschy* against oxidative stress and nephrotoxicity in alloxan-induced diabetic albino rats. *British Journal of Medicine and Medical Research* Vol.5. No. 2: 26 - 34pp (India) (Contribution: 20%)
11. **Odukanmi, O.A.**, Oluwole, F.S. and Olaleye, S.B. (2014). Effects of kolaviron, a *Garcinia kola* biflavonoid, on rats' intestinal glucose absorption and alpha amylase inhibitory activities. *Archives of Basic and Applied Medicine* Vol.2.No.2:161 - 167pp (Nigeria) (Contribution: 60%)

12. Owonikoko, M., Salami, A.T., **Odukanmi, O.A.** and Olaleye, S.B. (2015). Gastric ulcer-healing properties of diets containing seeds of *Buchholzia coriacea* in rats. *Archives of Basic and Applied Medicine* Vol.3. No.0:113-118pp (Nigeria) (Contribution: 30%)
13. Afolabi, S., Alli-Oluwafuyi, A., Olorundare, O., Olaleye, S.B., Adeyemi, O., **Odukanmi, O.A.**, Njan, A. and Aigbe, F. (2016). Antisecretory and spasmolytic potential of ethanolic leaf extract of *Datura stramonium* linn in albino Wistar rat and guinea pig ileum models. *West African Journal of Pharmacology and Drug Research* Vol.31. No.1:1-7pp (Nigeria) (Contribution: 20%)
14. Salami, A.T., **Odukanmi, O.A.**, Olagoke, C.O., Iyiola, T.O. and Olaleye, S.B. (2016). Role of nitric oxide and endogenous antioxidants in thyroxine facilitated healing of ischemia- reperfusion induced gastric ulcers. *Nigerian Journal of Pharmaceutical Research* Vol.12. No.2:189-206pp (Nigeria) (Contribution: 30%)
15. Salami, A.T., **Odukanmi, O.A.**, Duduyemi, B.M. and Ajeigbe, K.O. (2016). Chloroquine delays healing of acetic acid induced mucosal damage in the rat stomach. *Archives of Basic and Applied Medicine* Vol.4. No.4:129-135pp (Nigeria) (Contribution: 30%)
16. **Odukanmi, O.A.**, Kazuya, T., Seki, S., Homma, T. and Olaleye, S.B. (2017). In vitro inhibition of glucose transport across the intestinal membrane of mice exposed to trivalent chromium. *African Journal of Medicine and Medical Sciences* Vol.46. No. 1:103 - 112pp (Nigeria) (Contribution: 50%)
17. **Odukanmi, O.A.**, Salami, A.T., Koda, K., Morakinyo, O.L. and Olaleye, S.B. (2017). Trivalent Chromium promotes healing of experimental colitis in mice by suppression of inflammatory and oxidative stress. *Journal of Biosciences and Medicines* Vol.5. No. 8:108-126pp (United States of America) (Contribution: 50%)

18. **Odukanmi, O.A.**, Salami, A.T., Ogunwole, K.J., Homma, T. and Olaleye, S.B. (2017). Oral trivalent chromium exposure reduces gastrointestinal motility and secretion in experimentally altered gut homeostasis in rodents. *The Journal of Bioscience and Medicine* Vol.7. No. 3:1 - 9pp (United States of America) (Contribution: 50%)
19. Salami, A.T., **Odukanmi, O.A.**, Oshode, O.O. and Olaleye, S.B. (2018). Modulatory activities of *Chrysophyllum albidum* and its fractions on microflora and colonic pump activities during inflammatory phase of colitis healing in experimental Swiss mice. *Food Bioscience* Vol.22. No. 0:38-49pp (United Kingdom) (Contribution: 30%)
20. Salami, A.T., **Odukanmi, O.A.**, Faniyan, O.F., Omayone, T.P., Olaleye, S.B. (2018). Seeds of *Buchholzia coriacea* in diet mitigates ischemic reperfusion induced gastric ulceration in experimental rats. *Journal of Dietary Supplements* Vol.19. No. 6:842-859pp (United Kingdom) (Contribution: 30%)
21. **Odukanmi, O.A.**, Salami, A.T., Ashaolu, O.P., Adegoke, A.G. and Olaleye, S.B. (2017). Kolaviron attenuates ischemia reperfusion injury in the stomach of rats. *Applied Physiology Nutrition and Metabolism* Vol.43. No.1:30-37pp (Canada) (Contribution: 40%)
22. Adebayo-Gege G., Salami, A.T., **Odukanmi, O.A.**, Omotosho, I.O. and Olaleye, S.B. (2018). Pro-Ulcerogenic activity of sodium arsenite in the gastric mucosa of male wistar rats. *Journal of African Association of Physiological Sciences* Vol.6. No. 2:95-103pp (Nigeria) (Contribution: 20%)
23. **Odukanmi, O.A.**, Salami, A.T., Morakinyo, O.L., Yelotan, O.E. and Olaleye, S.B. (2018). Kolaviron modulates intestinal motility and secretion in experimentally altered gut functions of Wistar rats. *Journal of Complementary Medicine Research* Vol.9. No.2:55 - 62pp (United States of America ) (Contribution: 50%)
24. Olugbesan, A., Salami, A.T., **Odukanmi, O.A.**, Omayone, T., Iyiola, T.O. and Olaleye, S.B. (2018). Effects of Diets Containing Seeds of Soybean (*Glycine max*) on Healing of Acetic Acid Induced Gastric Ulcers in Rats. *Archives of Basic and Applied Medicine* Vol.6. No.0:159 -165pp (Nigeria) (Contribution: 20%)

25. Omayone, T.P., Salami, A.T., **Odukanmi, O.A.** and Olaleye, S.B. (2018). Diet containing seeds of *Buchholzia coriacea* accelerates healing of acetic acid induced colitis in rats. *Asian Pacific Journal of Tropical Biomedicine* Vol.8. No.3:166-172pp (China) (Contribution: 25%)
26. Nwafor, P.C., **Odukanmi, O.A.**, Salami, A.T. and Owonikoko, M. Olaleye, S.B. (2019). Evaluation of a Cement Dust Generation and Exposure Chamber for Rodents: Blood Heavy Metal Status, Haematological Variables and Gastrointestinal Motility in Rats. *Africa Journal of Biomedical Research* Vol.22. No.1:79 - 87pp (Nigeria) (Contribution: 30%)
27. **Odukanmi, O.A.**, Olusegun, Q.B., and Olaleye, S.B. (2019). Intestinal Handling of Glucose in *Buchholzia coriacea* Treated Male Wistar Rats. *Journal of Biosciences and Medicines* Vol.7. No.0:87 - 98pp (United States of America) (Contribution: 70%)
28. **Odukanmi, O.A.**, Owoeye, O., Salami, A.T., Morakinyo, O.L., Iyiola, T.O. and Olaleye, S.B. (2019). Effect of oral trivalent chromium ( $\text{Cr}_2\text{O}_3$ ) on stomach morphometry and some vital organs in male wistar rats. *African Journal of Medicine and Medical Sciences* Vol.48. No.0:329- 337pp (Nigeria) (Contribution: 40%)
29. **Odukanmi, O.A.**, Salami, A.T., Isa, M.O. and Olaleye, S.B. (2019). Crude ethanolic extract and fractions of *Buchholzia coriacea* modifies salivary secretion and electrolyte compositions in rat. *American Journal of Physiology, Biochemistry and Pharmacology* Vol.9. No.3:45-51pp (United States of America) (Contribution: 50%)
30. Salami, A.T., **Odukanmi, O.A.**, Akerele, M.E., Omayone, T.P. and Olaleye, S.B. (2019). Manganese chloride attenuates osteoporosis in rats with experimental ulcerative colitis. *Archives of Basic and Applied Medicine* Vol.7. No.1:21-34pp (Nigeria) (Contribution: 30%)
31. \*\*Omayone, T.P., Salami, A.T., **Odukanmi, O.A.**, Olopade, J.O. and Olaleye, S.B. (2020). Dose dependent changes in haematological and serum biochemical variables in male wistar rats exposed to sodium metavanadate. *Nigerian Journal of Physiological Sciences* Vol.35. No.0:147- 153pp (Nigeria) (Contribution: 25%)

32. \*\*Omolaso, B.O., Oluwole, F.S., **Odukanmi, O.A.**, Adesanwo, J.K., Ishola, A.A. and Adewole, K.E. (2021). Evaluation of the gastrointestinal anti-motility effect of *Anacardium occidentale* stem bark extract: A mechanistic study of antidiarrheal activity. *Journal of Pharmaceutical Analysis* Vol.11. No.0:776-782pp (China) (Contribution: 20%)
33. \*\***Odukanmi, O.A.**, Salami, A.T., Olanrewaju, T.R. and Olaleye, S.B. (2020). Exposure to mosquito coil smoke delays healing of acetic acid induced gastric ulcer in male wistar rats. *Nigerian Journal of Physiological Science* Vol.35. No.0:77-87pp (Nigeria) (Contribution: 50%)
34. \*\*Kolapo, A. E., Ilesanmi, O. S., Omoju, T. O., **Odukanmi, O.A.**, Akanbi, D. O., Okediran, J. O. and Balogun, M. S. (2021). Knowledge, Perception, and Sources of Information on COVID-19 among Nigerian Youths in the First Month of the Pandemic. *Journal of Health Sciences and Surveillance System* Vol.9. No.2:89-96pp (Iran) (Contribution: 20%)
35. \*\*Salami, A.T., **Odukanmi, O.A.**, Adeola, B., Iyiola, T. and Olaleye, S.B. (2021). Artesunate, with or without Mefloquine, alters activities of Mast cells, Anti-inflammatory markers and Antioxidants in Rats with Acetic acid induced Gastric ulcers. *Archives of Basic and Applied Medicine* Vol.9. No.0:45-57pp (Nigeria) (Contribution: 30%)
36. \*\* **Odukanmi, O.A.**, Balogun, M., Ilesanmi, O., Adebayo, B., Adenekan, A., Onasanya, O., Okunromade, O., Madubueze, U., Umeokonkwo, C., Nguku, P. (2021). Exposure to known COVID-19 infection risk factors among healthcare workers responding to COVID-19 outbreak in Lagos State, Nigeria-2020. *Journal of Interventional Epidemiology and Public Health*. 2021: 4 (2):1-10pp (Uganda) (Contribution: 30%)
37. \*\*Owonikoko, M.W., Salami, A.T., **Odukanmi, O.A.**, Emikpe, B.O. and Olaleye, S.B. (2022). Hematopoietic toxicity in Wistar rats experimentally exposed to cement dust. *Comparative Clinical Pathology* Vol.31. No. 0:181-199pp (United Kingdom) (Contribution: 25%)

38. **\*\*Odukanmi, O.A.** (2022). Self-quarantine in responding to COVID-19 outbreak in Lagos, Nigeria: A case report. *Journal of Medical Case Reports and Case Series* Vol.3. No.4:1-3pp (United States of America) (Contribution: 100%)
39. **\*\*Odukanmi, O.A.,** Salami, A.T., Essiet, E.U. and Olaleye, S.B. (2022). Alteration of Gastric and Salivary Secretions Due to Mosquito Coil in Male Wistar Rats. *American Journal of Physiology, Biochemistry and Pharmacology* Vol.12. No.4:1-6pp (United States of America) (Contribution: 50%)
40. **\*\*Odukanmi, O.A.,** Ajala, O. A., and Olaleye, S.B. (2022). Short-term acute constipation and not short-term acute diarrhea altered cardiovascular variables in male Wistar rats: Short-term acute constipation affects cardiovascular variables. *Nigerian Journal of Physiological Sciences* Vol.37. No.1:43-48pp (Nigeria) (Contribution: 70%)
41. **\*\*Odukanmi, O.A.,** Anyagwa, O.E., Adewunmi, O.S., Okechukwu, K.I. and Olaleye, S.B. (2022). Extended Fasting Durations Delayed Gastric Emptying and Colonic Motility in Normal Male Rats. *Journal of Biosciences and Medicines* Vol.10. No.0:146-154pp (United States of America) (Contribution: 50%)
42. **\*\*Odukanmi, O.A.,** Salami, A.T., Oluwafemi, T.S. and Olaleye, S.B. (2022). Exposure to oral cadmium increases in vitro intestinal contraction in male Wistar rats. *Tropical Veterinarian* Vol.40. No.0:65-77pp (Nigeria) (Contribution: 60%)

**f. Books, Chapters in Books and Articles already accepted for Publication: Nil**

**g. Technical Reports and Monographs: Nil**

**h. Chapters in Edited Books/Revised Chapters in Edited Books: Nil**

**XI. Major Conferences Attended with Papers Read (in the last 5 years):**

1. 3rd Annual Symposium African Forum for Research and Education in Health (AFREhealth), African Forum for Research and Education in Health, Lagos, Nigeria. 6th - 9th August 2019.

**Paper Read:** Intestinal Handling of Glucose in *Bucchozia coriacea* Treated Male Wistar Rats

**Paper Read:** Exposure to trivalent chromium inhibits glucose transport across mice intestinal membrane in vitro. membrane in vit

2. 7th Unibadan Conference of Biomedical Research (UCBR-7), University of Ibadan, Nigeria, Faculty of Basic Medical Sciences, University of Ibadan, Ibadan, Nigeria. 13th - 18th September 2021.

**Paper Read:** Exposure to oral cadmium reduces in vitro intestinal contraction in rats

3. First Nigeria Conference of Applied Field Epidemiology (NiCAFE), Nigeria Conference of Applied Field Epidemiology, Abuja, Nigeria. 26th - 28th July 2021.

**Paper Read:** Motives for Conducting COVID-19 Test, Treatment, and Blood Pressure Changes among Confirmed COVID -19 Cases in Lagos, 2020

4. 39th Congress of International Union of Physiological Sciences Congress (IUPS), International Union of Physiological Sciences, Beijing, China. 7th - 11th May 2022.

**Paper Read:** Cardiovascular changes associated with some experimental gastrointestinal dysmotility in male Wistar rats.



**XII. Ten Best Publications that Reflect the Totality of my Contributions to Scholarship:**

1. **Odukanmi, O.A.**, Oluwole, F.S. and Olaleye, S.B. (2014). Effects of kolaviron, a *Garcinia kola* biflavonoid, on rats' intestinal glucose absorption and alpha amylase inhibitory activities, *Archives of Basic and applied Medicine* Vol. 2.2. pp 161 - 167 (Nigeria) (Contribution: 60%)
2. Olaleye, S.B., Owoyele, B.V. and **Odukanmi, O.A.** (2008). Antiulcer and gastric antisecretory effects of *Landolphia owariensis* extracts in rats, *Nigerian Journal of Physiological Sciences* Vol. 23.-1. pp 23 - 26 (Nigeria) (Contribution: 30%)
3. Salami, A.T., **Odukanmi, O.A.**, Olagoke, C.O., Iyiola, T.O. and Olaleye, S.B. (2016). Role of nitric oxide and endogenous antioxidants in thyroxine facilitated healing of ischemia- reperfusion induced gastric ulcers, *Nigerian Journal of Pharmaceutical Research* Vol. 12.2. pp 189-206 (Nigeria) (Contribution: 30%)
4. **Odukanmi, O.A.**, Kazuya, T., Seki, S., Homma, T. and Olaleye, S.B. (2017). In vitro inhibition of glucose transport across the intestinal membrane of mice exposed to trivalent chromium, *African Journal of Medicine, and Medical Sciences* Vol. 46.1. pp 103 - 112 (Nigeria) (Contribution: 50%)
5. **Odukanmi, O.A.**, Salami, A.T., Koda, K., Morakinyo, O.L. and Olaleye, S.B. (2017). Trivalent Chromium promotes healing of experimental colitis in mice by suppression of inflammatory and oxidative stress, *Journal of Biosciences and Medicines* Vol. 5.8. pp 108-126 (United States of America) (Contribution: 50%)
6. **Odukanmi, O.A.**, Salami, A.T., Ogunwole, K.J., Homma, T., and Olaleye, S.B. (2017). Oral trivalent chromium exposure reduces gastrointestinal motility and secretion in experimentally altered gut homeostasis in rodents, *The Journal of Bioscience and Medicine* Vol. 7.3. pp 1 - 9 (United States of America) (Contribution: 50%)
7. **Odukanmi, O.A.**, Salami, A.T., Ashaolu, O.P., Adegoke, A.G. and Olaleye, S.B. (2017). Kolaviron attenuates ischemia reperfusion injury in the stomach of rats, *Applied Physiology Nutrition and Metabolism* Vol. 43.1. pp 30-37 (Canada) (Contribution: 40%)

8. **Odukanmi, O.A.**, Olusegun, Q.B., and Olaleye, S.B. (2019). Intestinal Handling of Glucose in *Bucchozia coriacea* Treated Male Wistar Rats, *Journal of Biosciences and Medicines* Vol. 7.0. pp 87 - 98 (United States of America) (Contribution: 70%)
  
9. **Odukanmi, O.A.**, Salami, A.T., Olanrewaju, T.R. and Olaleye, S.B. (2020). Exposure to mosquito coil smoke delays healing of acetic acid induced gastric ulcer in male wistar rats., *Nigerian Journal of Physiological Science* Vol. 35.0. pp 77-87 (Nigeria) (Contribution: 50%)
  
10. **Odukanmi, O.A.**, Ajala, O. A., and Olaleye, S.B. (2022). Short-term acute constipation and not short-term acute diarrhea altered cardiovascular variables in male Wistar rats: Short-term acute constipation affects cardiovascular variables. *Nigerian Journal of Physiological Sciences* Vol.37. No.1:43-48pp (Nigeria) (Contribution: 70%)

**Research Focus:**

My research focus is hinged on gastrointestinal functions and inflammation. The thrust is in experimental gastric ulcer, colitis formation and gastrointestinal motility and secretions.

I have conducted research to study the effects of phytochemicals, heavy metals, drugs, and dietary supplements on either mechanically – or chemically-induced gastric ulcerations and colitis in rodents to investigate the effect of these entities on gastric and colonic structural architecture even before induction of injury. While with the induction, the mechanism of either ameliorative or aggravative effect is studied via the possible mechanism of ulcer healing and inflammation that are well established. The emphasis has been on the reactive oxygen species, inflammatory pathways, and role of internally and externally generated antioxidants.

Similarly, the gastrointestinal function of motility has been studied extensively looking at different forms of gastrointestinal dysmotility that were induced in the lab such as diarrhoea, constipation, as well as motility even in the certain intact gut when it was exposed to dietary supplementations, heavy metals, phytochemicals, or chemicals, fasting periods. These studies have compared the mechanism of dysmotility which could be in the form of reduced or increased responses to the agent of exposure. The mechanism of these interactions was usually assessed in rodents. These motility studies have been conducted within the animal tissues (in vivo) and sometimes experiments were conducted outside the animal's body within Physiologic approved protocols and environment outside the animal's body (ex-vivo).

I have examined the gastrointestinal secretions with emphasis on the gastric and salivary secretions. Gastric secretions have helped to delineate the certain mechanism of ulcer healing in rodents. The activities of the different ionic channels that are necessary have been studied as well. Effect of these exposure agents such as exposure to mosquito coil, dietary supplementations, phytochemicals on the salivary glands, composition, salivary lag time, ionic channels, and electrolytes compositions following exposure to those substances.

Currently, I have started linking some gastrointestinal conditions (e.g., diarrhoea and constipation) to cardiovascular responses following diarrhoea and constipation. These conditions are tweaked in terms of the duration of each to assess the cardiovascular responses following the induction period and the recovery phase.

---

**Names****Signature****Date**

