

CURRICULUM VITAE

A. PERSONAL DATA

1. NAME: ADELEKE Opeyemi Samson
2. DATE AND PLACE OF BIRTH: 26TH MARCH, 1987/ ILE-IFE
3. GENDER: Male
4. NATIONALITY: Nigeria
5. STATE OF ORIGIN: Osun
6. LOCAL GOVERNMENT AREA: Ife-North
7. MARITAL STATUS: Married
8. NAMES AND AGES OF CHILDREN: Moyosoreoluwa Paul/11years;
Moyinoluwa Priscilla/7years;
Morayooluwa Phebe/4years;
Momoreoluwa Paulina/6months
9. NAMES /RELATIONSHIP OF THE NEXT OF KIN: Mrs Adeleke, Justina Kehinde
WITH PHONE NUMBER: Wife (08168228727)
10. PERMANENT ADDRESS: M31 Boredun Community, Osogbo.
11. E-MAIL ADDRESS: opeyemi.adeleke@uniosun.edu.ng
12. REGISTRATION WITH RESEARCHGATES: Yes
13. IF YES, PROVIDE THE LINK: <https://www.researchgate.net/profile/Opeyemi-Adeleke-2>
14. IF NO, WHY: NA
15. REGISTRATION WITH GOOGLE SCHOLAR: Yes

16. IF YES, PROVIDE THE

LINK:<https://scholar.google.com/citations?user=65S31pYAAAAJ&hl=en>

17. IF NO, WHY:

NA

18. CELL PHONE NUMBER:

08131323267

19. COLLEGE/FACULTY/UNIT:

Health Sciences/ Basic Medical Sciences

20. DEPARTMENT:

Anatomy

21. POSITION ON FIRST APPOINTMENT:

Assistant Lecturer

22. PRESENT POSITION AND SALARY:

Senior Lecturer/CONUASS 5 Step2

23. DATE OF PRESENT POSITION:

1ST October, 2025

24. IS YOUR APPOINTMENT CONFIRMED:

Yes

25. IF NO, WHY NOT?

26. DATE OF CONFIRMATION:

4th May, 2023

B. EDUCATIONAL BACKGROUND

1. EDUCATIONAL INSTITUTIONS ATTENDED WITH DATE:

- i. University of Ilorin, Ilorin, Kwara State, Nigeria **2016 - 2021**
- ii. University of Ilorin, Ilorin, Kwara State, Nigeria. **2012 - 2013**
- iii. Ladoke Akintola University of Technology, Ogbomosho, Nigeria. **2005 – 2010**
- iv. Fakunle Comprehensive High School, Osogbo, Osun State, Nigeria. **1998 – 2004**

2. ACADEMIC AND PROFESSIONAL QUALIFICATIONS WITH DATES/ ISSUING

AUTHORITY/CLASS OF DEGREE:

- i. Doctor of Philosophy in Anatomy (Ph.D); University of Ilorin, Ilorin,
Kwara State. **2021**
- ii. Master of Science in Anatomy (M.Sc); University of Ilorin, Ilorin,
Kwara State. **2013**
- iii. Bachelor of Technology in Anatomy (B.Tech); Ladoke Akintola
University of Technology, Ogbomosho (Second Class upper) **2010**
- iv. SSCE O Level/ GCE; West African Senior School Examination Council **2004/2009**

3. OTHER RELEVANT QUALIFICATIONS

- i. Certificate of Basic Bioinformatics **2024**
- ii. Certificate of Annual African emerging and established Researcher training **2023**
- iii. Certificate of Basic Genomics and Bioinformatics **2019**
- iv. Certificate of Energy Medical Applications and Ultrasound Training **2013**
- v. Diploma Certificate in Microsoft Office, Graphic Designs and web designing **2008**

4. HONORS, AWARDS AND DISTINCTIONS:

- i. Co-Author, UNILORIN Tetfund Institutional Based Research Grant **2019/2020**
- ii. UNIOSUN Tetfund Staff Development Grant **2019/2020**

5. RESEARCH FELLOWSHIPS WITH DATES:

None

C. WORK EXPERIENCE OUTSIDE THE UNIVERSITY SYSTEM:

- i. Computer Instructor, Jokodolu Computer Institute, Olope-Marun, Ogbomoso, Oyo State.
March 2014 – August 2014
- ii. X-ray Technician and HIV/AIDS counselor/caregiver, X-ray Department and HCT/ART Clinic, General Hospital Ore, Ondo State, Nigeria. **2011 - 2012**
- iii. Histopathology Laboratory Technician, Morbid-Anatomy and Histopathology Department, LAUTECH Teaching Hospital Osogbo **2009 - 2010**

D. WORK EXPERIENCE IN OTHER UNIVERSITIES:

- i. Anatomy Prosector, Department of Anatomy, University of Ilorin, Kwara State.
2012 – 2013

E. WORK EXPERIENCE IN OSUN STATE UNIVERSITY:

- i. Assistant Lecturer, Department of Anatomy, College of Health Sciences, Osun State University, Osogbo **2015 – 2019**
- ii. Lecturer II, Department of Anatomy, College of Health Sciences, Osun State University, Osogbo **2019 – 2022**
- iii. Lecturer I, Department of Anatomy, College of Health Sciences, Osun State University, Osogbo **2022 – Till date**

F. CO-CURRICULAR PROFESSIONAL EXPERIENCE:

- i. Ultrasonography (Abdominal and Prostate)
- ii. Ultrasonography (Obstetrics and Gynecology)

G. MEMBERSHIP OF PROFESSIONAL BODIES

- i. Member, Anatomical Society of Nigeria (ASN)
- ii. Member, Society of Experimental and Clinical Anatomists of Nigeria (SECAN)
- iii. Member, Red Cross Society of Nigeria.
- iv. Member, International Federation of Fertility Societies (IFFS)
- v. Member, Endocrine and Metabolism Society of Nigeria (EMSON)
- vi. Member, Association for Fertility and Reproductive Health of Nigeria (AFRH)

H. SERVICES:

- i. Department: Lecturing of Anatomy courses
Dissection and Demonstration for practical classes
Member, Department of Anatomy student welfare committee,
Department of Anatomy examination officer, 200L level adviser
- ii. Faculty/College: Member, College of Health Sciences Examination Committee
Member, College of Health Sciences Lectures Committee
- iii. University: College of Health Science GNS Coordinator
- iv. Community: Contributed to the sensitization of the people of Osogbo and her neighboring communities in Osun state on the ways of eradicating the spread of HIV/AIDS and its management. Member, Urban Alert, a civic initiative leveraging technology in amplifying the voices of the suffering masses.
- v. National: National Youth Service Corp.
- vi. International: None

I. COURSES TAUGHT DURING THE CURRENT ACADEMIC SESSION

- | | |
|---|--------|
| i. ANA 203 (General Embryology) | 2units |
| ii. ANA 211 – General Anatomy for Nursing Sciences I | 5units |
| iii. ANA 313 – Gross Anatomy of the lower limb | 2units |
| iv. ANA 403 -Radiological Anatomy and Techniques | 2units |
| v. ANA 407 – Cell and Molecular Biology | 2units |
| vi ANA 411 – Skeletal Biology and Anthropology | 2units |
| vii. ANA 204 - Gross Anatomy of the Abdomen | 2units |
| viii. ANA 212 - General Anatomy for Nursing Sciences II | 5units |
| ix. ANA 304 - Neuroanatomy | 3units |
| x. ANA 406 – Introduction to electron microscope | 2units |
| xi. ANA 408 – Biometry and Human Growth | 2units |
| xii. General Anatomy for 200L Medical Students | |
| xiii. General Anatomy for 300L Medical Students | |

J. GRADUATE STUDIES SUPERVISION (if any): none

K. PUBLICATIONS:

- | | |
|--|------|
| i. Books (authored/co-authored) | None |
| ii. Books (Edited/co-edited) | None |
| iii. Monographs | None |
| iv. Chapters in books | |

1. Abayomi T.A and **Adeleke O.S** (2019). Pathophysiology of Anaemia. Sickle Cell Disease: *In From the Laboratory to Clinical Practice*. Prof Alebiosu C.O (Ed.). pg 26-39. Cambridge Scholars Publishing.

v. **Articles in learned journals**

2. Adeleke, O. S., Bon-Ukwute, T. C., Ajadi, T. O., Adunfe, O. O., Benson, I., & Falana, B. A. (2025). Roles of Quercetin and Omeprazole in Ovotoxicity Induced by Indomethacin in Wistar Rats. *Sierra Leone Journal of Medicine*, 2(1), 73-79. <https://sljm.org/journal/index.php/sljm/article/view/98>

Publisher: University of Sierra Leone Teaching Hospitals Complex

3. Adeleke, O. S., Iyiola, O. B., Johnson, O. F., Adunfe, O. O., Benson, I. O., & Oyewopo, A. O. (2025). Riboceine regimen circumvents reserpine-induced hepatotoxicity via the modulation of key liver function markers in adult male wistar rats. *Archives of Razi Institute*.80(2): 508-15. https://archrazi.areeo.ac.ir/article_132289.html

Publisher: Razi Vaccine & Serum Research Institute

4. Adunfe, O. O., Ubulu, L. U., Tokunbo, O. S., Adeleke, O. S., Iyiola, O. B., Oguntade, A. A., & Duru, F. (2025). Testicular Rescue Following D-ribose L-cysteine Administration on Torsion-detorsion Injury. *Fountain Journal of Basic Medical and Health Sciences*, 1(1), 91-100. <https://www.fountainjournals.com/index.php/FUJBMHES/article/view/656>

Publisher: Fountain University Journal of Basic Medical and Health Sciences

5. Adeleke, O.S, Oke, C., Oni, T., Adeeyo, O., Dare, B., Benson, I., & Ogungbe, L. (2024). Therapeutic Effects of Ginseng and Doxorubicin on DMBA-Induced Ovarian Cancer in Wistar Rats. *Sierra Leone Journal of Medicine*, 1(2), 113-117. <https://sljm.org/journal/index.php/sljm/article/view/88>

Publisher: University of Sierra Leone Teaching Hospitals Complex

6. Gbadamosi I, Yawson EO, Akesinro J, Adeleke O.S, Tokunbo O, Bamisi O, Ibrahim-Abdulkareem R, Awoniran P, Gbadamosi R, Lambe E, Atoyebi A, Bayo-Olugbami AA, Abayomi TA, Arogundade TT (2024). Vitamin D attenuates monosodium glutamate-induced behavioural anomalies, metabolic dysregulation, cholinergic impairment,

oxidative stress, and astrogliosis in rats. *Neurotoxicology*. 103:297-309.
<https://pubmed.ncbi.nlm.nih.gov/38964510/>

Publisher: Elsevier, Netherlands.

7. Benson, I. O., Ayoka, A. A., Dare, B. J., Bayo-Olugbami, A. A., **Adeleke, O. S.**, Tokumbo, O. S., Saka, O. S. (2024). Myocardial integrity in citicoline-treated middle cerebral artery occlusion-induced hypoperfusion in Wistar rats; the relationship between the insular and heart. *Journal of Experimental and Clinical Anatomy*, 21(1), 122-133.
<https://www.ajol.info/index.php/jeca/article/view/272883>

Publisher: Official publication of Experimental and Clinical Anatomists of Nigeria.

8. Opeyemi Osuntokun, Gbola Olayiwola, Taiwo Adekemi Abayomi, Alimat Toyin Lawal, **Adeleke O.S**, Abiodun Oladele Ayoka (2023). Mucuna pruriens seed reveals the hypothalamic-pituitary-testicular axis disruption following carbamazepine treatment in male Wistar rats. *Nigerian Journal of Physiological Sciences*. 38(1). 113 – 119.
<https://pubmed.ncbi.nlm.nih.gov/38243374/>

Publisher: Physiological Society of Nigeria.

9. **Adeleke, O.S**, Thomas, G., Atere, T., Taiwo, C., Omotosho, R., & Ajibade, A. (2023). Co-administration of Zinc and Ascorbate Attenuates Germ Cell mRNA Androgen Receptor in Valorphin Induced Testicular-Toxicity in Wistar Rats. *Western Nigeria Journal of Medical Sciences*, 6(2), 110–118.
<https://wnjms.com.ng/journal/index.php/wnjms/article/view/185>

Publisher: UNIOSUN Teaching Hospital, Osogbo, Nigeria.

10. Adunmo GO., Lawal AZ ., Oyewopo AO., Oyewopo CI., Stephen DA., Akindehin OA., Adunfe OO., **Adeleke O.S.**, Hamzat FO., Ashamu EA (2023). Cryptorchidism and Hyperthermia-Induced Testicular Injury in Adult Male Rats; Intervention of Alpha Tocopherol. *BIOKEMISTRI* 35(1): 34610 – 34616.

Publisher: Society for Experimental Biology of Nigeria

11. Lawal A.Z., Adunmo G.O., Oyewopo AO., Oyewopo CI., Stephen DA., Akindehin OA., Adunfe OO., **Adeleke OS.**, Hamzat FO., Ashamu EA (2023). Therapeutic Effect of Quercetin on The Hypothalamus of Stz- Nicotinamide Induced Diabetic Rats. *BIOKEMISTRI* 35(1): 34610 – 34616.

Publisher: Society for Experimental Biology of Nigeria

12. Dare BJ , Obembe OO , Azeez DJ, Abiodun BI, Dare AP, Fatoki OJ, **Adeleke O.S** (2022). Ivermectin and *Allium cepa* Protect against Cadmium-Induced Ovarian and Uterine Damage in Adult Wistar Rats. *Pan African Journal of Life Sciences*: 6(2): 437-446. <https://pajols.org/volume-6-issue-2/584-2/>

Publisher: Publication of Faculty of Basic Medical Sciences, LAUTECH, Ogbomoso, Nigeria.

13. Atere T.G., Adewumi O. E., Fatoki J.O., Osuntokun O. S., Oladokun O.O., Adedokun K.I., Tokunbo O.S., Adekunle O. C. and **Adeleke O.S.** (2022). Proanthocyanidin from *Vitis vinifera* Modulates Testicular Dysfunction Associated with Manganese Toxicity in Wistar Rats via Suppression of DNA Degradation, Inflammation and Oxidative Stress. *FUOYE Journal of Pure and Applied Sciences*. 7(2): 26 – 37. <https://fjpas.fuoye.edu.ng/index.php/fjpas/article/view/230>

Publisher: Faculty of Science Federal University Oye-Ekiti, Ekiti State, Nigeria.

14. **Adeleke O.S.**, Oyewopo AO, Falana BA, Akinyemi BR, Dare BJ, Adegoke AA, Ibiam V, Adeyemi BS, Ilesanmi DO (2022). Immunohistochemical Expression of Ki-67, cytokeratin-18 and BCL-2 in Wistar rats testes treated with *Rauwolfia vomitoria*, Chlorpromazine and Co-administration of Reserpine. *Research Journal of Health Sciences*. 10(3). 177-189. <https://www.ajol.info/index.php/rejhs/article/view/232707>

Publisher: UNIOSUN Research Journal of Health Sciences, Nigeria.

15. **Adeleke O.S.**, Gideon Thomas, Benedict Falana, Yinka Afolabi, Joseph Dare, Adewale Ajibade (2022). Comparative effect of Nifedipine and Garlic (*Allium sativum*) on Renal

toxicity induced by Hypertension in Wistar rats. *Western Nigeria Journal of Medical Sciences*. 5(2). 44-54. <https://wnjms.com.ng/journal/index.php/wnjms/article/view/94>

Publisher: UNIOSUN Teaching Hospital, Osogbo, Nigeria.

16. Babatunde, D. J., Femi, F. A., Anifat, A. T., Peter, D. A., Fatoki, J. O., **Adeleke O.S**, Olawale, O. O. (2022). Testicular Histoarchitecture in Adrenalectomized Rat Model Treated with Dexamethasone. *Journal of Morphological Sciences*, 39:379 – 388. <https://www.jms-sba.com/2022>

Publisher: Brazilian Society of Anatomy

17. Oyewopo A.O, **Adeleke O.S**, Johnson O, Akingbade A, Olaniyi K.S, Areola E.D, Tokunbo O .E (2021). Regulatory effects of quercetin on testicular histopathology induced by cyanide in Wistar rats. *Heliyon* 7; e07662. <https://www.sciencedirect.com/science/article/pii/S2405844021017655>

Publisher: Elsevier, Netherlands.

18. **Adeleke O.S**, Oyewopo A.O, Akingbade A, Johnson O (2021). CREM, PRM I and II genes expression in Wistar rats testes treated with antipsychotic drugs: Chlorpromazine, *Rauwolfia vomitoria* and co-administration of reserpine, zinc and ascorbic acid. *Jornal Brasileiro de Reproducao Assistida Assisted Reproduction*. 25(1):97-103. <https://pmc.ncbi.nlm.nih.gov/articles/PMC7863111/>

Publisher: Brazilian Society of Assisted Reproduction, Brazil.

19. Oyewopo A.O, **Adeleke O.S**, Johnson O, Akingbade A (2021). Quercetin upregulates CREM gene expression in cyanide-induced endocrine dysfunction. *Heliyon* 7; e06901. <https://pubmed.ncbi.nlm.nih.gov/34027151/>

Publisher: Elsevier, Netherlands.

20. Bakare AA , Abdulkareem OT , Falana BA , **Adeleke O.S** (2021). Assessment of Vaginal Smear Cytology Procedure in South Western Nigeria Institutions. *Journal of Experimental Research*. 9 (3): 59-66. <https://er-journal.com/articles.php?id=607>

Publisher: Official Publication of Enugu State University of Science & Technology, Nigeria.

21. Falana BA , **Adeleke O.S**, Okoko IE, Alabi OK , Tokunbo OS , Akinyemi BR , Adeyemi BS (2021). D-Ribose-L-Cysteine Regimen Corrects Formaldehyde-Induced Testicular Perturbation In Swiss Albino Mice. Journal of Experimental Research. 9 (3): 14-20. <https://er-journal.com/articles.php?id=612>

Publisher: Official Publication of Enugu State University of Science & Technology, Nigeria.

22. Sanni A.M., Idaguko C.A., Abdulazeez D.O., **Adeleke O.S.** and Falana B.A (2020). Naringen Ameliorates Cyanide-induced Testicular and Epididymal Changes in Swiss Albino Mice (Mus musculus). Research Journal of Health Sciences Vol 8 (4): 291 – 302. <https://www.ajol.info/index.php/rejhs/article/view/200595>

Publisher: UNIOSUN Research Journal of Health Sciences, Nigeria.

23. Falana B.A, Adekeye W.M, **Adeleke O.S** (2019). Amelioration of lead induced changes in the testes of sprague-dawley rats, by methanol extract of *Telfaria occidentalis*. Anatomy Journal of Africa. 8 (2):1606 – 1613. <https://www.ajol.info/index.php/aja/article/view/189705>

Publisher: Association of Anatomical Societies of Africa, Kenya.

24. Falana B.A., Tokunbo O.S., Durosinmi O.M., **Adeleke O.S.**, Fadare M.U. Ibiam V.O (2019). Reversal of aluminium trichloride-induced nephrotoxicity by D-Ribose-L-Cysteine regime in adult Sprague-Dawley rats involves the modulation of renal function markers. Adeleke University Journal of Health Sciences and Biomedical Research Vol 1 (1): 32 – 41.

Publisher: Faculty of Basic Medical Sciences, Adeleke University, Ede, Nigeria.

25. **Adeleke O.S.**, Omotosho R.A. , Adeleke A.M. , Abayomi T.A. , Tokunbo O.S. , Falana B.A., Ogungbe L.G., Fadare M.U., Busari M.O. (2019). Assessment of andrological parameters, histopathology, and expression of ki-67 protein in wistar rat testes after exposure to different ranges of electromagnetic radiation from smartphone. *Adeleke University Journal of Health Sciences and Biomedical Research* Vol 1 (1): 48 – 60.

Publisher: Faculty of Basic Medical Sciences, Adeleke University, Ede, Nigeria.

26. Falana BA, Bakare AA, Adekunle OE, **Adeleke O.S** (2019). Histomorphological studies of Methanolic and Aqueous Leaf Extract of *Annona Squamosa* on the testis and Epididymis of male Sprague Dawley rats. *Journal of Anatomical Science* 10 (1):17-22. <https://www.asn-ng.com/journal/article/1586346950>

Publisher: Anatomical Society of Nigeria, Nigeria.

27. Alabi A.S, Ogungbesan A.A, Lewu F.S, Kareem S.B, Oyewopo A.O, **Adeleke O.S**, Aigbogun Eric Junior (2019). Relationship between Foot Length, Body Mass Index, and Height In Comparison With Phallus Length Among Healthy Young Nigerian Men. *Era's Journal of Medical Research*. 6(1): 22-25.

https://www.ejmr.org/articals/pdf/1678871438_66db5d7bb931a93d37ab.pdf

Publisher: Official publication of Era's Lucknow Medical College and Hospital, India.

28. Abayomi TA, Tokunbo OS, Atere TG, **Adeleke O.S** (2018). Role of Vitamin C and E in Sodium Azide Induced Oxidative Stress in Prefrontal Cortex. *Journal of Anatomical Science*. 9 (1):88-94.

Publisher: Anatomical Society of Nigeria, Nigeria.

29. Falana B.A, **Adeleke O.S**, Orenolu M, Osinubi A, Oyewopo A.O (2017). Effect of D-ribose-L-cysteine on aluminum induced testicular damage in male Sprague-Dawley rats. *JBRA Assist. Repro*. 21(2): 94-100. <https://pmc.ncbi.nlm.nih.gov/articles/PMC5473701/>

Publisher: Brazilian Society of Assisted Reproduction, Brazil.

30. Dare BJ, Chukwu RO, Olaniyan TO, Adegoke AA, **Adeleke O.S**, Ibiyemi VT (2017). Garcinia Kola enhance metabolic and hormonal parameters in lead induced testicular damage in Rat Model (*Rattus Norvergicus*). UNIOSUN Journal of Science. 2(1): 30-35.

Publisher: UNIOSUN Journal of Science, Nigeria.

31. **Adeleke O.S**, Falana B.A, Babawale G, Atere T, Abayomi T, Tokunbo O (2017). Evaluation of the comparative effects of Antihypertensive drugs: Methyldopa and *Moringa oleifera* leaves on the hypothalamic- pituitary-gonadal axis in male wistar rat. Journal of Experimental and Clinical Anatomy. 16(1): 71-76. <https://jecajournal.com/index.php/home/issue/view/9>

Publisher: Official publication of Experimental and Clinical Anatomists of Nigeria.

32. Ajao MS, **Adeleke O.S**, Imam A, Adama MS, Olawepo A, Olayaki LA, Ajape AA, Atata JA, (2017). Testicular responses to selected Antipsychotic drugs; Chlorpromazine and Swizzle stick (*Rauwolfia vomitoria*). Journal of Anatomical Science 8(1): 9-17.

Publisher: Anatomical Society of Nigeria, Nigeria.

33. Oyewopo A, Ndace A, Biliaminu S, Morakinyo A, **Adeleke O.S** (2017). Studies of Estrogen and Progesterone on Testicular Functions in Male Wistar Rats (*Rattus Novergicus*). Era's Journal of Medical Research. 4(2): 16-21. <https://www.ejmr.org/archive>

Publisher: Official publication of Era's Lucknow Medical College and Hospital, India.

vi. Review Articles

34. Falana BA, Obembe OO, **Adeleke O.S**, Adefolaju GA, Tokunbo OS (2023). Impact of Coronavirus disease (COVID-19) on reproductive health. International Journal of Medicine and Health Development, 28 (2). 93-98. https://journals.lww.com/ijmh/fulltext/2023/28020/impact_of_coronavirus_disease__covid_19__on.3.aspx

Publisher: College of Medicine University of Nigeria

35. **Adeleke, O. S.**, Oyewopo, A. O., & Johnson, O. F. (2022). Review on medicinal plants used in the management of male infertility. *Journal of Morphological Sciences*. 39:486-493. <https://www.jms-sba.com/2022>

Publisher: Brazilian Society of Anatomy

36. Oyewopo AA, **Adeleke O.S**, Tokunbo OS, Falana BA, Johnson O (2018). Plastination: a novel approach to Cadavar scarcity in Nigeria. *Anatomy Journal of Africa*. 7 (1):1175 – 1180. <https://www.ajol.info/index.php/aja/article/view/169491>

Publisher: Association of Anatomical Societies of Africa, Kenya.

37. Oyewopo A, Johnson O, **Adeleke O.S**, Oyewopo C (2018). Review on the role of Glutathione on Oxidative Stress and Infertility. *Jornal Brasileiro de Reproducao Assistida Assisted Reproduction*. 22(1):61-66. <https://pubmed.ncbi.nlm.nih.gov/29266896/>

Publisher: Brazilian Society of Assisted Reproduction, Brazil.

L. CURRENT RESEARCH ACTIVITIES:

i. Funded Research

ii. Non-Funded/Self-Sponsored Research -

1. Chemotherapy and fertility roles of Doxorubicin and Ginsenosoides in 7,12-Dimethylbenz(a) anthracene induced breast cancer in Wistar rats.
2. Characterization and evaluation of heavy metals present in Osun river and their effects on endocrine and reproductive organs in Wistar rats.
3. Chemotherapy and fertility roles of Doxorubicin and Ginsenosoides in co-administration of testosterone propionate and N-methyl-N-nitroso urea induced prostate cancer in Wistar rats.

M. CONFERENCES ATTENDED:

- i. 20th Annual Conference of the Anatomical Society of Nigeria, Ibadan 2024, University of Ibadan, Oyo State.
- ii. Bioinformatic course Training, 2024, Genomic Institute Incorporation, USA
- iii. Annual African Emerging and Established Researcher Training Academy 2023, The Human Sciences Research Council (HSRC) in partnership with the University of Pretoria, South Africa
- iv. 19th Annual Conference of the Anatomical Society of Nigeria, Abuja 2023, Baze University Abuja, FCT.
- v. 17th Annual Conference of the Anatomical Society of Nigeria, Ilorin 2021, University of Ilorin, Kwara State.
- vi. 16th Annual Conference of the Anatomical Society of Nigeria, Calabar 2019, University of Calabar, Cross River State.
- vii. Basic Genomics and Bioinformatic Workshop (Training) 8th-12, April, 2019. African Biosciences Limited, Adegbayi, Ibadan.
- viii. Stereology Workshop (Training) 20th-22th June, 2017. Department of Anatomy, Obafemi Awolowo University, Ile-Ife.
- ix. 16th Annual Conference and Scientific sessions, Society of Experimental and Clinical Anatomists of Nigeria, Osogbo 2017, Osun State University, Osogbo, Osun State.
- x. 13th Annual Conference of the Anatomical Society of Nigeria, Ekiti 2016, Ekiti State University, Ado-Ekiti, Ekiti State.
- xi. 12th Annual Conference and Scientific sessions, Society of Experimental and Clinical Anatomists of Nigeria, Ilorin 2012, University of Ilorin, Ilorin, Kwara State.

- xii. 8th Annual Conference of the Anatomical Society of Nigeria, Remo 2010, Olabisi Onabanjo University, Ogun State.
- xiii. 6th Annual Conference of the Anatomical Society of Nigeria, Zauzau 2008, Ahmadu Bello University, Zaria.

N. EXTRA CURRICULAR ACTIVITIES:

Surfing the internet, Researching, Playing with Kids and Music

O. ANY OTHER RELEVANT INFORMATION: None

P. SUMMARY OF CONTRIBUTION TO KNOWLEDGE:

Paper 1 - Pathophysiology of Anaemia in Sickle Cell Disease, sheds light on the complex molecular and physiological mechanisms that contribute to anaemia in individuals with sickle cell disease. By unraveling these underlying processes, it offers valuable insights that could inform the development of more effective therapeutic interventions.

Paper 2 contributes to scientific knowledge by investigating the protective roles of quercetin and omeprazole against ovotoxicity induced by indomethacin in Wistar rats. The study demonstrates that both agents, particularly quercetin, mitigate the harmful effects of indomethacin on ovarian tissue by reducing oxidative stress and inflammation. This research advances understanding of potential therapeutic strategies for preserving female reproductive health in the context of NSAID-induced ovarian damage.

The 3rd paper - Riboceine and Reserpine-Induced Hepatotoxicity highlighted the hepatoprotective effects of riboceine, this research contributes to the field of gastroenterology and drug toxicity while the 4th paper - Testicular Rescue Following Torsion-Detorsion Injury demonstrated the ability of D-Ribose-L-Cysteine to aid in the recovery of testicular tissue following torsion-detorsion injury.

Effects of Ginseng and Doxorubicin in Ovarian Cancer (Paper 5) provides evidence for the potential benefits of combining herbal remedies with chemotherapy in ovarian cancer treatment. Paper 6 which is

Vitamin D and MSG-Induced Neurotoxicity investigated the protective effects of Vitamin D, this study highlights its potential in mitigating excitotoxic damage in the brain caused by MSG. Myocardial Integrity in Stroke-Induced Hypoperfusion which is the 7th paper established the link between cerebral ischemia and cardiac health, emphasizing the importance of cardiovascular monitoring in stroke patients

Paper 8 - *Mucuna pruriens* and HPG Axis Disruption by Carbamazepine highlights the potential of *Mucuna pruriens* in counteracting reproductive dysfunction caused by the anticonvulsant drug carbamazepine. By examining the role of essential micronutrients, paper 9 “Zinc and Ascorbate in Valorphin-Induced Testicular Toxicity” contributes to knowledge on nutrient-based interventions in reproductive health. Cryptorchidism and Hyperthermia-Induced Testicular Injury has revealed in paper 10 explored the therapeutic potential of alpha-tocopherol in protecting against testicular dysfunction caused by elevated temperatures while paper 11 - Quercetin’s Effect on the Hypothalamus in Diabetic Rats expands understanding of neuroprotective interventions in diabetes, particularly the role of quercetin in safeguarding hypothalamic function.

Paper 12 demonstrated the protective role of *Allium cepa* and Ivermectin against cadmium toxicity on the reproductive organs in female adult Wistar rats. Paper 13 revealed the role of grape seed (*Vitis vinifera*) proanthocyanidin extract has a potential therapy for testicular dysfunction in wistar rats exposed to manganese. Paper 14 revealed the reproductive toxicity of synthetic antipsychotic drugs Chlorpromazine and Reserpine and also unveiled the fertility potential of antipsychotic herb *Rauwolfia vomitoria* extract alongside co-administration of Reserpine, ascorbate and zinc by reducing the reproductive toxicity that is commonly associated with antipsychotic drugs. In addition, paper 15 shows that hypertension induced by sodium chloride salt caused reduced efficiency in kidney function (renal dysfunction) in Wistar rats and Garlic was effective in attenuating the effect of the hypertension on the kidney better than the administration of antihypertensive drug (Nipeditipine). Testicular Histoarchitecture in Adrenalectomized Rats (Paper 16) enhances understanding of how adrenal hormones influence testicular morphology and function.

Regulatory Effects of Quercetin on Testicular Histopathology, paper 17 highlight the potential of flavonoids like quercetin in mitigating cyanide-induced reproductive toxicity, advancing our understanding of natural protective agents. Paper 18 clarified the reproductive toxicity induced by chlorpromazine and reserpine and also gives credit to the activity of the compounds present in

Rauwolfia vomitoria (reserpine, zinc, and ascorbate) to improve the menace of infertility associated with antipsychotic drugs by upregulating CREM, PRM I, and II signaling pathways.

Paper 19 revealed that cyanide-induced endocrine dysfunction is attributable to down-regulation of CREM gene expression and a decrease in selected endocrine hormones (FSH, LH, and testosterone). The study also suggests the ameliorative effects of quercetin on endocrine dysfunction by improving the expression of CREM and endocrine hormones. While post-treating cyanide toxicity by quercetin proved effective in this study, taking quercetin-rich supplements concomitantly when someone is exposed to cyanide is the best therapeutic way of mitigating the endocrine dysfunction that may be induced by cyanide.

Furthermore, Paper 20 looked at the various techniques people used in carrying out vaginal smear cytology, a common method used in studying the estrous cycle. There are multiple conflicting references regarding the vaginal smear cytology procedure, many of which lack comprehensive illustrations with undesired outcomes. Thus, this paper assessed the procedure, factors considered, and outcome of new procedure for vaginal smear cytology. The 21st paper investigated the potential dangers of formaldehyde and the therapeutic potential of D-Ribose-L-Cysteine on key reproductive indices and the cyto-architecture of male mice testes

Naringin and Cyanide-Induced Testicular Changes which is paper 22 demonstrated the protective role of Naringin in counteracting the toxic effects of cyanide, contributing to the field of toxicology and reproductive health. Paper 23 - Amelioration of Lead-Induced Testicular Changes by *Telfairia occidentalis* demonstrated the protective effects of plant extracts against heavy metal toxicity, this study offers a scientific basis for the use of *Telfairia occidentalis* in reproductive health. Reversal of Aluminum Trichloride-Induced Nephrotoxicity which is paper 24 enhances the understanding of renal toxicity caused by aluminum exposure and explores the therapeutic potential of D-Ribose-L-Cysteine in reversing kidney damage.

Paper 25 investigated the connection between Smartphone Radiation and Andrological Parameters. The research revealed the impact of electromagnetic radiation from smartphones on male fertility, this study provides valuable public health insights into the potential risks associated with prolonged exposure. Paper 26 - Histomorphological Effects of *Annona Squamosa* on Testis and Epididymis contributes to the

growing knowledge of how plant extracts influence fertility, particularly their potential role in modulating testicular and epididymal function. Paper 27 revealed the correlation among the Foot Length, BMI, and Phallus Length by analyzing anthropometric data, this study provides information relevant to medical assessments and forensic sciences.

The roles of Vitamins C and E in Sodium Azide-Induced Oxidative Stress has shown in paper 28 highlights the neuroprotective benefits of vitamins C and E in preventing oxidative damage to the prefrontal cortex, reinforcing their potential therapeutic role in neuroprotection. Paper 29 which revealed the effect of D-ribose-L-cysteine on Aluminum-Induced Testicular Damage examined the antioxidative properties of D-ribose-L-cysteine, this study advances knowledge on potential protective strategies against testicular toxicity caused by aluminum exposure. *Garcinia Kola* and Lead-Induced Testicular Damage which is paper 30 highlights the potential of *Garcinia Kola* in mitigating reproductive toxicity caused by lead exposure, adding to the growing body of evidence supporting the use of plant-based therapies in reproductive health.

Comparative Effects of Antihypertensive Drugs and *Moringa oleifera* on the HPG Axis (Paper 31) revealed how methyldopa, a common antihypertensive drug, affects reproductive function while also exploring the potential protective effects of *Moringa oleifera*, offering valuable insights into medication-induced reproductive side effects. Published paper 32 - Testicular Responses to Antipsychotic Drugs examined the effects of Chlorpromazine and *Rauwolfia vomitoria* on testicular function, this study contributes to the understanding of drug-induced reproductive dysfunction and its implications for long-term health.

Published paper 33 studied the effects of Estrogen and Progesterone on Testicular Functions. This research delves into the hormonal regulation of testicular function in male rats, providing key insights relevant to the field of reproductive endocrinology.

Paper 34 revealed the impact of COVID-19 on Reproductive Health. This paper provides critical insights into the long-term effects of the COVID-19 pandemic on reproductive function and overall health. Paper 35 reviewed the role of Medicinal Plants in Male Infertility Management, this paper offered an extensive review of ethnobotanical approaches, the paper explored how different medicinal plants can aid in treating male infertility. More also, paper 36 “Plastination as a Solution to Cadaver Scarcity” which is a review article explored plastination as a viable approach to addressing the shortage

of cadavers for medical education and research. Lastly, the review article “Role of Glutathione in Oxidative Stress and Infertility” (Paper 37) revealed the role of glutathione, this study enhances understanding of antioxidant-based therapies in reproductive health.

Adeleke Opeyemi S. (Dr)
Name



.....
Signature

.....
Date