

CURRICULUM VITAE

I. Name: Bernard Omokheshi Adele
Department: Physiology
Faculty: Basic Medical Sciences

II. First Academic Appointment:

Present Position: Assistant Lecturer
Date of First Appointment: 10 April, 2019
Date of Last Promotion: Not Applicable
Date Last Considered: Not Applicable

III. University Attended (with dates)

- | | |
|--|-----------|
| a. University of Ibadan, Oyo State, Nigeria | 2015-2021 |
| b. University of Ibadan, Oyo State, Nigeria | 2013-2014 |
| c. Obafemi Awolowo University, Ile-Ife, Osun State | 2005-2010 |

IV. Academic qualifications (with dates)

- | | |
|------------------------|------|
| a. Ph.D. | 2021 |
| b. M. Sc. (Physiology) | 2014 |
| c. B Sc. Ed (Biology) | 2010 |

V. Professional Qualifications and Diploma

- | | |
|--|------|
| a. Proficiency Certificate in Management , Nigerian Institute of Management | 2012 |
| b. Certificate in Graphics , Classic System Infotech, Ondo, Ondo State, Nigeria | 2010 |

VI. Honours, Distinctions and Membership of Learned Societies

- Affiliate Member, The Physiological Society, United Kingdom
- Member, American Physical Society
- Member, Nigerian Institute of Management

VII. Details of Teaching / Work Experience

- a. **Research Assistant**, Applied and Environmental Physiology Laboratory, Department of Physiology, University of Ibadan, Nigeria 2016 - 2018
- b. **Laboratory Scientist**, Bridge Scientific Enterprise, Ilorin, Kwara State, Nigeria 2014-2016
- c. **Subject Teacher**, Adejare International School, Moniya, Ibadan, Nigeria 2012-2013
- d. **Subject Teacher**, Government Day Secondary School, Niger State, Nigeria 2011-2012

Administrative experience

- e. **Financial Secretary**, University of Ibadan Alumni Association, UI Chapter 2016- to date

Community service

- f. Adhoc Staff, Independent National Electoral Commission, Niger State, Nigeria April, 2011

VIII. Scholarship

Nil

IX. Research

a. Completed

- i. Effect of methanol extract of *Musa sapientum* leaves on protein glycation and erythrocyte antioxidant status in alloxan-induced diabetic rats
- ii. Effect of diets on immune response in acrylamide-toxic rats

b. In Progress

c. Project, Dissertation and Thesis

- i. Adele, B. O. (2014). Effect of methanol extract of *Musa sapientum* leaves on protein glycation and erythrocyte antioxidant status in alloxan-induced diabetic rats
- ii. Adele, B. O. (2021). Modulatory Effects Of High Carbohydrate, High Protein, and High Fat Diets on Acrylamide-Induced Toxicity in Wistar Rat

X. Publications

a. Books already published:

1. Adele R. A. and **Adele B. O.** (2015). Dah-Ray Biology Practical for senior secondary schools (WAEC, NECO, GCE and JAMB examinations). Help-Line Foundation International, Nigeria. 2nd Ed. ISBN-9789780736530

b. Chapters in Books:

Nil

c. Articles already appeared in Referred Conference Proceedings

2. Adewoye E.O., Adebayo O. and **Adele B.O.** (2016). Comparative study of piroxicam and nitroglycerin on prostaglandin modulated blood and electrolyte indices during diestrous cycle in female Wistar rats. *Proc Physiol Soc.* 37, PCA203
3. Adewoye E. O., Emediong I. E., Abayomi A. O. and **Adele B. O.** (2017). Lycopene Reverses oxidative, hematological, hepatic and renal damage in Arsenic-toxic Rats. Conference Proceedings of the 38th IUPS Conference, Rio de Janeiro, Brazil
4. Odetola A. O., Ojo G. T., Emediong I. E., **Adele B. O.**, Ige A. O. and Adewoye E. O. (2019). Copper toxicity increases energy metabolism and glutathione in male Wistar rats. *Proc Physiol Soc.* 45, PC52.
5. **Adele B. O.**, Adio K., Ige A. O. and Adewoye E. O. (2021). Period of exposure to ultraviolet radiation during pregnancy influences neonatal immune functions in Wistar rat. Conference proceedings of 4th international Congress of African Society of Physiology and Pathophysiology, Cotonou

6. **Adele B. O.**, Ige A. O., Odetola A. O., Emediong I. E. and Adewoye E. O. (2021). High protein diet mitigates acrylamide-induced haematotoxicity via membrane stabilization, redox balance, export of nitric oxide bioactivity, and glucose regulation in rats. Conference proceedings of 8th Unibadan Conference of Biomedical Research, Ibadan, Nigeria.

d. Patents:

Nil

e. Articles that have already appeared in learned Journals

7. Adewoye, E.O. and **Adele, B.O.** (2015). Effect of methanol extract of *Musa sapientum* leaves on protein glycation and erythrocyte antioxidant status in alloxan-induced diabetic rats. *Afr. J. Med. Med. Sci.* 44:261-268
8. Adewoye, E.O., Okunola, M.A., **Adele, B.O.** and Oyeboode O.T. (2016). Effects of monopotassium glutamate on mitochondrial membrane permeability transition and lipid peroxidation-an *in vitro* study. *Arch Bas Med Sci.*4:33-36
9. A. O. Ige, F. A. Ongele, I. E. Emediong, A. O. Odetola, **B. O. Adele** and E. O. Adewoye (2019). Pathophysiology of iron overload-induced renal injury and dysfunction: Roles of renal oxidative stress and systemic inflammatory mediators. *Pathophysiology.* 26: 175180
10. Emediong I. E., **Adele B. O.**, Odetola A. O., Ige A. O. and Adewoye E. O. (2019). Lycopene Reverses Haematological, Oxidative, Hepatic and Renal Damage in Arsenic - Toxic Male Wistar Rats. *EC Pharmacology and Toxicology* 7 (5): 393-403.
11. A. O. Ige, R. N. Chidi, E. E. Egbeluya, R. O. Jubreel, **B. O. Adele** and E. O. Adewoye (2019). Amelioration of thyroid dysfunction by magnesium in experimental diabetes mellitus and renal impairment. *Heliyon* 5: e01660
12. A. O. Ige, O. M. Onwuka, I. E. Emediong, A. O. Odetola, **B. O. Adele** and E. O. Adewoye (2019). Oral administration of acrylamide compromises gastric mucosal integrity in Wistar rats. *J. Afr. Ass. Physiol. Sci.* 7(1): 7-16
13. A. O. Ige, Fatokun B. P., Emediong I. E., Odetola A. O., **B. O. Adele** and Adewoye E. O. (2020). Selenium supplementation increases hepatic glucose-6-phosphatase and peroxisome

- proliferator activated receptor gamma coactivator-1 α activity in male Wistar rats. *Niger J. Physiol Sci.* 35(1):61-67
14. Ige A. O., Uzuegbu D.C., Adebayo P.O., Emediong I. E., Odetola A. O., **Adele B. O.** and Adewoye E. O. (2020). Comparative effects and Daylight restriction and sleep deprivation and immune and oxidative stress response of male Swiss mice. *Arch. Bas. App. Med.* 8:103-109
 15. Ige A. O., Ayoola O. I., Oladejo E. O., **Adele B. O.**, Ola O. O. and Adewoye E. O. (2022). Gastrointestinal motility and Intestinal structure following oral exposure to acrylamide in Wistar rats. *Res. J Health Sci.* 10(1): 27-34
 16. **Adele BO** *, Alonge AJ, Adewoye EO (2022). Codeine induced haematological, hepatic alterations, lung and brain damage in mice. *Advances in Toxicology and Toxic Effects.* 6(1): 001-007. DOI: <https://dx.doi.org/10.17352/atte.000011>
 17. Ige A. O., Adebayo O. O., **Adele B. O.**, Odetola A. O., Emediong I. E. and Adewoye E. O. (2022). Genistein Mitigates the Gastro-Toxic Effects of Bisphenol A in Male Wistar Rats. *Journal of Biosciences and Medicines.* 10: 60-78

f. Articles already accepted for publication

18. **Adele B. O.**, Adebayo O. O. and Adewoye E. O. (2022). Comparative study of piroxicam and nitroglycerin on prostaglandin modulated blood and electrolyte indices during dioestrous in female Wistar rats. *JBRA Assisted Repro. J.* (Accepted April 17, 2022)

XI. Major Conference attended with papers presented

1. 8th Unibadan Conference of Biomedical Research, Ibadan, Nigeria. September, 2021. Paper presented: High protein diet mitigates acrylamide-induced haematotoxicity via membrane stabilization, redox balance, export of nitric oxide bioactivity, and glucose regulation in rats
2. 4th international Congress of African Society of Physiology and Pathophysiology, Cotonu, 09 – 11 July, 2021. Paper presented: Period of exposure to ultraviolet radiation during pregnancy influences neonatal immune functions in Wstar rat.
3. The Postgraduate College, University of Ibadan Training workshop on Applications of Spectrophotometry in Biological and Biomedical Research, Ibadan, 23 -27 September, 2019.

4. MEPIN Junior and Senior researchers' workshop. Theme: Research Design and Methodology, Ibadan, March, 2017
5. MCRL Scientific training workshop for postgraduate student on HPLC, AAS and UV-VIS spectrophotometry, University of Ibadan, Ibadan, 18-20 October , 2016
6. Biochemical Society and University of Huddersfield, United Kingdom Western Blot workshop, University of Ibadan, Ibadan, July, 2016
7. MEPIN Junior and Senior researchers' workshop. Theme: Bioethics, Ibadan, May, 2016
8. Biochemical Society and University of Huddersfield, United Kingdom Cell culture workshop, University of Ibadan, Ibadan, May, 2016
9. 35th Annual scientific conference of the Physiological Society of Nigeria, Enugu, September, 2015
10. 4th Unibadan Conference of Biomedical Research, Univeristy of Ibadan, Ibadan, 2014
11. 33rdAnnual scientific conference of the Physiological Society of Nigeria, Ibadan, February, 2014

XII. RESEARCH FOCUS

My primary research interests are in the impact of environmental factors especially dietary modifications in terms of nutrient proportion (macro-, micro- and metallo-nutrients) and compounds that are formed during food processing on cell structure-function relationship with specific interest on red blood cell membrane structure-function relationship and its interactions with immune cells in health and pathology. With the current rising tide in diet-related pathologies and/or possible therapeutic potentials; I have completed a research on the impact of diets on acrylamide toxicity with striking findings and currently working on the metallo-nutrient toxicity and red blood cell functions.

B. O. Adele