
ADEMUJIWA Oladipo

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Department: Biochemistry

Academic Rank: Professor

Current position:

Research Interest: Biochemical Toxicology



DETAILED RESUME

ACADEMIC DEGREES WITH DATE

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|---|---------------------|---|------|
| * | Ph.D. (Toxicology) | - | 1995 |
| * | M.Sc.(Biochemistry) | - | 1988 |
| * | B.Sc.(Biochemistry) | - | 1983 |

INSTITUTIONS ATTENDED WITH DATE

- Ludwig-Maximilians-University (University of Munich), Munich, Germany 1991 - 1995
- Obafemi Awolowo University, Ile-Ife, Nigeria - 1985 - 1988
- University of Ife, Ile-Ife, Nigeria (Now Obafemi Awolowo University) - 1979 - 1983

MEMBERSHIP OF PROFESSIONAL BODIES

- Member – Nigerian Society of Biochemistry and Molecular Biology
- Member – Society of Toxicology, U.S.A

PRIZES, HONOURS, NATIONAL AND INTERNATIONAL RECOGNITIONS.

- * Obafemi Awolowo University Postgraduate Fellowship Award 1987/1988.
- * German Academic Exchange Service (DAAD) Scholarship Award - April 1991- May 1995.
- * German Academic Exchange Service (DAAD) Fellowship Award - April 2003- June 2003.
- * CSIR-TWAS Postdoctoral Fellowship Award - August 2006 – July 2007.

COURSES TAUGHT

RESEARCH CONDUCTED

PUBLICATIONS

(a) Thesis/Dissertation:

- (i) Determination of hemagglutinating activity of concanavalin A and its interaction with serum glycoproteins. (B.Sc. Thesis, 1983).
- (ii) The role of anti-oxidants in gentamicin-induced renal damage in the rat. (M.Sc. Thesis, 1988).
- (iii) Zur Toxikologie der Arsen-Kupfer-Wechselwirkung im Säugetierorganismus. Untersuchungen an Ratten. (Toxicology of Arsenic-Copper Interaction in Mammals. Studies in the Rat (Ph.D. Thesis, 1995).

(b) Published Journal Articles:

1. **Ademuyiwa O.**, Ngaha E. O. and Ubah F.O.(1990). Vitamin E and selenium in gentamicin nephrotoxicity. Human Exp. Toxicol. 9: 281 - 288.
2. Elsenhans B., **Ademuyiwa O.**, Schmolke G., Scharper J and Hunder G. (1993). Arsenic-copper interactions in the kidneys of laboratory animals. In '*Metal-metal interactions*', B. Elsenhans, W. Forth and K. Schümann, eds. Bertelsmann Foundation Publishers Gütersloh, Germany. pp. 110 – 128.

3. **Ademuyiwa O.**, Adesanya O and Ajuwon O.R. (1994). Vitamin C in CCl₄ hepatotoxicity - A preliminary report. *Human Exp. Toxicol.* 13: 107 - 109.
4. **Ademuyiwa O.**, Elsenhans B. and Forth W. (1996). Arsenic-copper interaction in the kidney of the rat : Influence of arsenic metabolites. *Pharmacol. Toxicol.* 78: 154 -160.
5. **Ademuyiwa O.**, Akinlatun W., Bakare A., Ayannuga O., Adegboyega O., Onitilo O. and Ogunyemi E. O. (1997). Effect of Zinc Supplementation on Some Markers of Nephrotoxicity and Hepatotoxicity in the Rat. *Nig. J. Nutr. Sci.* 18 (1): 16 - 21.
6. **Ademuyiwa O.**, Ajuwon O. R. and Adesanya O. (1997). Carbon tetrachloride hepatotoxicity - Effect of zinc chloride pretreatment. *Nig. J. Nutr. Sci.* 18 (2): 11 - 15.
7. **Ademuyiwa O.**, Elsenhans B. and Forth W. (1999). Arsenic-copper interaction in the kidney of the rat: Effect of arsenic on some renal parameters. *Biokemistri* 9 (1): 49 - 65.
8. Hunder G., Schaper J., **Ademuyiwa O.** and Elsenhans B. (1999). Species differences in arsenic-mediated renal copper accumulation: A comparison between rats, mice and guinea-pigs. *Human and Experimental Toxicol.* 18: 699 - 705.
9. **Ademuyiwa O.** and Elsenhans B. (2000). Time course of arsenite-induced copper accumulation in rat kidney. *Biol. Trace Element Res.* 74: 81 - 92.
10. **Ademuyiwa O.**, Arowolo T., Ojo D. A., Odukoya O. O., Yusuf A. A. and Akinhanmi T. F. (2002). Lead levels in blood and urine of some residents of Abeokuta, Nigeria. *Trace Elem. Electro.* 19 (2): 63 - 69.
11. **Ademuyiwa O.**, Onitilo O., Dosumu O., Ayannuga O., Bakare A., Akinlatun W. and Ogunyemi E. O. (2002). Zinc in CCl₄ toxicity. *Biomed. Env. Sci.* 15: 187 - 195.

12. Onunkwor B., Dosumu O., Odukoya O. O., Arowolo T. and **Ademuyiwa O.** (2004). Bio-markers of lead exposure in petrol station attendants and auto-mechanics in Abeokuta, Nigeria: effect of 2-week ascorbic acid supplementation. *Environ. Toxicol. Pharmacol.* 17 (3): 169 - 176.
13. **Ademuyiwa O.**, Akinlatun W., Bakare A., Ayannuga O., Adegboyega O., Onitilo O. and Ogunyemi E. O. (2004). The biochemical toxicology of mosquito coil in the rat - a preliminary report. *Res. Update Med. Sci.* 1: 1-5.
14. Dosumu O., Onunkwor B., Odukoya O. O., Arowolo T. and **Ademuyiwa O.** (2005). Bio-markers of lead exposure in auto-mechanics in Abeokuta, Nigeria. *Trace Elem. Electro.* 22 (3): 185 - 191.
15. **Ademuyiwa O.**, Ugbaja R. N., Ojo D. A., Owoigbe A. O. and Adeokun S. E. (2005). Reversal of aminolevulinic acid dehydratase (ALAD) inhibition and reduction of erythrocyte protoporphyrin levels by vitamin C in occupational lead exposure in Abeokuta, Nigeria. *Environ. Toxicol. Pharmacol.* 20 (3): 404 - 411.
16. **Ademuyiwa O.**, Ugbaja R. N., Idumebor F. and Adebawo O. (2005). Plasma lipid profiles and risk of cardiovascular disease in occupational lead exposure in Abeokuta, Nigeria. *Lipids Health Dis.* 4: 19
17. **Ademuyiwa O.**, Ugbaja R. N., Rotimi S. O., Abam E., Okediran B. S., Dosumu O. A. and Onunkwor B. O. (2007). Erythrocyte acetylcholinesterase activity as a surrogate indicator of lead-induced neurotoxicity in occupational lead exposure in Abeokuta, Nigeria. *Environ. Toxicol. Pharmacol.* 24: 183 -188.

18. **Ademuyiwa O.**, Okanlawon O. L., Adebawo O. O. and Ugbaja R. N. (2007). Endogenous antioxidant defenses in plasma and erythrocytes of pregnant women during different trimesters of pregnancy. *Acta Obstet. Gynecol. Scand.* 86 (10): 1175 -1180.
19. Eromosele C. O., Arogundade L. A., Eromosele I. C. and **Ademuyiwa O.** (2008). Extractability of African yam bean (*Sphenostylis stenocarpa*) protein in acid, salt and alkaline aqueous media. *Food Hydrocolloids* 22: 1622 – 1628.
20. Abam E., Okediran B. S., Odukoya O. O., Adamson I. and **Ademuyiwa O.** (2008). Reversal of ionoregulatory disruptions in occupational lead exposure by vitamin C. *Environ. Toxicol. Pharmacol.* 26 (3): 297 – 304.
21. **Ademuyiwa O.**, Dosumu O., Ayannuga A. O. , Onitilo O., Akinlatun W., Bakare A., and Ogunyemi O. (2008). Vitamin C in gentamicin toxicity. *Nig. J. Nutri. Sci.* 29 (1): 195 – 202.
22. **Ademuyiwa O.**, Ugbaja R. N. and Rotimi S. O. (2008). Plasma lipid profile, atherogenic and coronary risk indices in some residents of Abeokuta in south-western Nigeria. *Biokemistri* 20 (2): 85 – 91.
23. Okediran B. S., Abam E., Odukoya O. O., Adamson I. and **Ademuyiwa O.** (2009). Membrane, intracellular, plasma and urinary sodium and potassium in occupational lead exposure: Effects of vitamin C supplementation. *Trace Elem. Electro.* 26 (2): 49 - 59
24. **Ademuyiwa O.**, Agarwal R., Chandra R. and Behari J. R. (2009). Lead-induced phospholipidosis and cholesterologenesis in rat tissues. *Chem.-Biol. Interact.* 179 (2-3): 314 - 320.

(c) **Conference Papers**

- (i) **Ademuyiwa O.**, Elsenhans B. and Forth W. (1994). Arsenic-copper interaction in the kidney of the rat : Time course of renal copper accumulation. *Toxicol. Letters* 74 (Supplement 1) : 1 - 2. (Presented at the 33rd European Congress of Toxicology, Basel, Switzerland. 21 - 24 August 1994)
- (ii) **Ademuyiwa O.**, Elsenhans B. and Forth W. (1994). Arsenic-copper interaction in the kidney of the rat : Effect of arsenic metabolites. *Naunyn-Schmiedeberg's Arch. Pharmacol.* 349 (Supplement): R117 (Presented at the 35th Spring Meeting of German Society for Experimental and Clinical Pharmacology and Toxicology, Mainz, FRG 15 - 17 March 1994)
- (iii) **Ademuyiwa O.**, Kuforiji O., Oni A., Adegboyega O. and Akinleye A. (1999). Further studies on the renal effects of mosquito coil in the female rat. Presented at the Nigerian Society of Biochemistry and Molecular Biology 19th Annual Conference, Benin City, Nigeria 30 - 31 March 1999 (Book of Abstracts pp. 34).

(d) **Books/Monographs**

- (i) Osilesi O., Olowookere J.O., Daini O.A., Adenuga G.A., Olagunju J.O., Adebawo O.O., Okegbile E., Ademuyiwa O., Odunuga O. (1996). "Biochemistry Practical Textbook" (Internal Press)

MANUSCRIPTS SUBMITTED FOR PUBLICATION

1. Paraoxonase activity in sub-chronic low level lead exposure (Submitted to Archives of Biochemistry and Biophysics).
2. Effects of subchronic low level lead exposure on the homeostasis of copper and zinc and copper:zinc ratios in the tissues of the rat (Submitted to Journal of Trace Elements in Medicine and Biology).
3. The impact of malaria co-morbidly occurring with typhoid on some aspects of lipid metabolism in humans (Submitted to Malaria Journal).