

## **Publications:**

### **a. Articles that have Appeared in Learned Journals:**

1. March, D. B., **Akinwande, A. I.** and Song, R. (1972): The effect of feeding antibiotics for different periods on growth rate, feed conversion and metabolizability of dietary energy in growing chickens. *Poultry Sci.* 51, 1409 – 1414.
2. **Akinwande, A. I.**, Bragg, D. B. and Fitzsimmons, R. C. (1973): Influence of the egg formation cycle on changes in protein, RNA, DNA and moisture in the magnum of laying hens. *Poultry Sci.* 52. 2002, 2205.
3. Bragg, D. B. and **Akinwande, A. I.** (1973): The nutritional value of wheat protein for early growth of layer and broiler pullets. *Poultry Sci.* 52, 1646 – 1651.
4. **Akinwande, A. I.** and Bragg, D. B. (1974): Effect of dietary lysine level in wheat protein diets on growth and changes in DNA, RNA and protein composition in the tissue of broiler chicks. *Poultry Sci.* 53. 134-143
5. **Akinwande, A. I.** and Bragg, D. B. (1974): Effect of dietary Amino acid balance on lever nucleic acids and proteins and the reproductive performance of the laying hen. *West Afr. J. Biol. Chem.* 17. 21-26.
6. Akinrimisi, E. O. and **Akinwande, A. I.** (1975): Effect of aqueous extract of *Eugenia carryophyllus* on brain Acetylcholine esterase of rats. *West Afr. J. Pharmac. Drugs Res.* 2 127-131.
7. Akinrimisi, E. O. and **Akinwande, A. I.** (1967): Biochemical studies of acetylcholine esterase inhibitor present in *Eugenia carryophyllus*. *West Afr. J. Pharmac. Drug Res.* 3. 141-148.
8. **Akinwande, A. I.**, Akinrimisi, E. O. and Subramanyam, D. (1980): Nucleic acid and Protein synthesis in rats vaccinated with *Litomosoides carinni* microfilaria, *IRCS Medical Science* 8, 631-632.
9. **Akinwande, A. I.** (1981), Influence of dietary fat on growth and Lipid content, Glucose-6-phosphate and 6-phosphogluconate dehydrogenase and aldolase activities in chick. *Poultry Sci.* 60, 1259 – 1263.
10. **Akinwande, A. I.**, Akinrimisi, E. O. and Iriah. Jssie. I. (1998): Isolation, partial purification and characterization of acid phosphatase in *Culex pipiens fatigans*. *IRCS Med. Sci.* 9, 373- 374.
11. **Akinwande, A. I.**, Akinrimisi, E. O. and Subramanyam, D. (1982): Injection of microfilaria of *Litomosoides carinni* into rats stimulated tissue DNA and protein synthesis. 12 International Congress of Biochemistry Australia POS, 002-146.
12. **Akinwande, A. I.**, Akinrimisi, E. O., E. O. Ogunsusi, O. and Ilemobade A. (1983): An Oligonucleotide isolated from bovine microfilariae. *IRCS Md. Sci.* 11, 791 -792.
13. **Akinwande, A. I.** and Bragg, D. B. (1985). Effect of the level of dietary lysine on turnover of liver protein in the chick. *Poultry Sci.* 64, 1938 -1940.
14. **Akinwande, A. I.** and Olagunju, S. A. (1985). Underfeeding of the mother rat during pregnancy altered concentrations of nucleic acids and precursors in her fetal brain. *West Afr. J. Anatomy* 1. 24-27.
15. **Akinwande, A. I.**, Adeyale, A. I. and Ekundayo, C. O. (1985). Effect of maternal food restriction during pregnancy on neonatal brain lipids. *West Afr. J. Anatomy.* 1.37-41.
16. **Akinwande, A. I.**, Akinrimisi, E. O. (1986). Comparative study of the rates of DNA, RNA and protein synthesis in *Litomosoides carinni* and host tissues. *Nig. J. Pure & Applied Sci.* 4:39-48.
17. **Akinwande, A. I.**, Akinrimisi, E. O. and Subramanyam, D. (1988): DNA, RNA and protein synthesis in rat spleen and liver during *Litomosoides carinni* infection *Nig. Physiol. Sci.* 4: 59-63.

18. **Akinwande, A. I.** and Bragg, D. B. (1988): Effect of the quantity of lysine, arginine and threonine in the diet on oxidation of the amino acids by chicks *Ife J. Sci* 2: 85-90.
19. **Akinwande, A. I.**, Akinrimisi, E. O. (1988): Effect of aqueous extracts of some Nigerian chewing sticks on saliva amylase activity. *Nig. Dent. J.* 8. 23-28.
20. **Akinwande, A. I.**, Subramanyam, D. Akinrimisi, E. O. and (1989). DNA, RNA and protein synthesis in rat lung and kidney during *Litomosoides carinni* Infection. *Nig. J.. Physiol. Sci.* 7 (1) 27-31.
21. Ebuehi, O. A. and **Akinwande, A. I.** (1991): Effect of dietary protein deficiency on the incorporation of <sup>3</sup>H-glycine into brain S-100 proteins in the rat. *Nig. J. Physiol. Sci.* 7 (1) 27-31.
22. **Akinwande, A. I.** and Opeifa, T. K. (1991): An indirect evaluation of the effect of Diethyl carbamazine on the central serotonergic processes. *Nig. J. Physiol Sci.* 7 (1) 27-31.
23. Ebuehi, O. A. and **Akinwande, A. I.** (1992): Isolation and Purification of S-100 Proteins from rat brain. *Bioscience Res. Commun.* 4: 77-83.
24. Ebuehi, O. A. and **Akinwande, A. I.** (1992): Effect of inadequacy of dietary protein on brain S-100 protein in rats, *Nig. J. Biochem.* 7 100-126.
25. Ebuehi, O. A. and **Akinwande, A. I.** (1993): An indirect evaluation of the effect of maternal and post-weaning protein and tryptophan malnutrition on the central Serotonergic metabolism. *Nig. Quarterly J. Hosp. Med.* 5: 48-55.
26. Ebuehi, O. A. and **Akinwande, A. I.** (1993): Effect of Maternal protein Malnutrition on brain S-100 proteins of the progeny. *Nig. Medical Journal* 24:89-93.
27. Akinwande, A. I., Akinrimisi, E. O. and Subramanyam, D. (1993): Vaccination of rats with *Litomosoides Carinni* Microfilariae stimulated Nucleic acid and Protein Synthesis in tissues. *Nig. Qt. J. Hosp. Med.* 5: 39-43.
28. Ebuehi, O. A. and **Akinwande, A. I.** (1994): Effect of Protein and Tryptophan Malnutrition on the Blood-baaub varruer *J. Pharmacu. Sci. & Pharmacy Practice* 2: 19-25.
29. Ebuehi, O. A. and **Akinwande, A. I.** (1994): Diurnal variation and the effect of age of the concentration of tryptophan and nicotinic acid in ploasma and brain of the rat. *Nig. \J. Physiol. Sci.* 10:57-64.
30. Ebuehi, O. A. and **Akinwande, A. I.** (1994): Effect of dietary tryptophan and protein deficiency on some biochemical parameters and physiological responses in rats. *Biochemistry* 4(1): 25-39.
31. Chukwumah, E. I., **Akinwande, A. I.**, Akinrimisi, E. O. and Odugbemi Tolu (1995). Isolation and Characterization of the Endo enterotoxin of *Vibrio cholera* strarin. 110 *Cal. West Afr. J. Md.* 4(1): 1-5.
32. Akinwande, A. I. and Ekenobi, E. E. (1996): Comparative analysis of the lipid Composition of *Dirofilaria immitis.*, its host and vector. *Nig. Qt. J. Hosp. Md.* 6:27-30.
33. Ebuehi, O. A. and Akinwande, A. I. (1996): Maternal and Post-Weaning Protein and Tryptophan Malnutrition on Serotonin Concentration in rats Platelts. *West Afr. J. Boil. Sci.* 4:122-134.
34. **Akinwande, A. I.** and Ikea. J. K. (1996): Effect of Excess dietary vitamin A on tissue Vitamin A concentration in the mother, weanings and young. *Nig. Quarterly J. Hosp. Med.* 6:207-212.
35. **Akinwande, A. I.**, Hassan O. B. and Ebuehi, O. A. (1996): Effect of protein deficiency during pregnancy on Tissue Mitochondrial Cytochromes and Protein concentration. *Nig. Quarterly J. Hosp. Med.* 6:207-212.
36. **Akinwande, A.I.** and Kusimo, E. O. (1996): Isolation, Purification and Characterization of Beta galactosidase from seeds of *Citrullus vulgaris*. *Nig. Quarterly J. Hosp. Med.* 6:189- 195.

37. **Akinwande, A. I.** and Chukwumah (1996): Effect of Prenatal Protein Deficiency on brain acid phosphatases activities. *Nig. Quarterly J. Hosp. Med.* 6 315-319.
38. **Akinwande, A. I.** and Akindiji (1996): Effect of plasma vitamin C level on Plasma glutathione concentration, vitamin C transport into erythrocytes and Fragility of erythrocytes of undergraduate students. *Nig. Quarterly J. Med.* 6:299-304.
39. **Akinwande, A. I.** and Iseghohi, P. A. (1997): A study of the extent of pollution of Lagos Lagoon coastal waters. *Nig. Quarterly J. Hosp. Med.* 7:74-77.
40. **Akinwande, A. I.** and 1995/96 M.Sc. Biochemistry students (1997): Weight for Height charts of Nigerians from different states of origin living in Lagos, *Nig. Quarterly J. Hosp. Med.* 7: 142-147.
41. **Akinwande, A. I.** and Hassan, B. O. (1997): Effect of dietary deficiency on the concentrations of liver and heart mitochondrial cytochromes, protein, iron and calcium. *Nig. Quarterly J. Hosp. Med.* 7:168-171.
42. **Akinwande, A. I.,** Ebuehi, O. A., Akinwunmi, A. E. (1997): Effect of a staple Nigerian Diet inadequate in protein fed to pregnant and lactating rats on bones and skin composition of the sucklings. *Nig. Dental J.* 10:12-18.
43. **Akinwande, A. I.,** Ebuehi, O. A. T., (1997): Effect of post-partum malnutrition on tryptophan utilization, *Nig. Quarterly J. Hosp. Med.* 404-407.
44. **Akinwande, A. I.,** Ebuehi, O. A. T. and Akoro, O. (1998): Effect of the sap of *Jatropha curcas* 1. On rat muscle, brain and erythrocyte ghost acetylcholine esterase activity, *Nig. Quarterly J. Hosp. Med.* 8:143-147.
45. **Akinwande, A. I.** and Twelve 1996/97 M.Sc. Biochemistry Students (1998): Physical growth in the fingers arms and head of secondary school students in Lagos, Nigeria. *Quarterly J. Hosp. Med.* 8:225-233.
46. **Akinwande, A. I.,** Ebuehi, O. A. T. and Akinsola, D. W. (1998): In vitro and in vivo effect of diethyl carbamazepine on the activity of acetylcholinesterase in the Rat. *J. Pharmaceut Sci. & Pharm.* 4:60-65.
47. Ebuehi, O. A. T., Oputa, E. E. and **Akinwande, A. I.** (1999): Effect of Nicotine and Tobacco consumption on brain acetylcholinesterase and serum alkaline phosphatase in rat. *Nig. Qt. J. Hosp. Med.* 9: 153-157.
48. Ebuehi, O. A. T., Salawu, M. O. and **Akinwande, A. I.** (1999): Effect of post-weaning protein malnutrition on organ growth, protein and lipid composition in rats, *Nig. J. Med. Res.* 4: 84-88.
49. Odesanmi, O. S. Magbagbeola, O. A. and **Akinwande A. I.** (2000): Metabolic Effects of Extracts of *Musanga cecropioidis* as compared to that of combined oral Contraceptive – Neogynion – ED/FE in the mature female rat. *Nig. Sci. Endo. Met. Scientific Conference.*
50. **Akinwande, A. I.,** Ebuehi, O. A. T. and Akinwande A. I. (2000): A comparison of the effects of extracts of *Musanga cecropioidis* on serum lipids to that of combined Oral Contraceptive – Neogynion – ED/FE in Female rats. *Nig. J. Rat Prod. Med.* 4:52-56.
51. Odesanmi, O. S. Magbagbeola, O. A. and **Akinwande, A. I.** (2000): Antifertility Effect of Extracts of *Musanga cecropioidis* Buddsheath in the mature female Sprague-Dawley Rat *Nig. Qt. J. Hosp. Med.* 10: 44-49.
52. Ebuehi, O. A. T., Bishop, S. A., Famuyiwa, O. O., **Akinwande, A. I.** and Ladenegan, O. A. (2000): Biogenic amines metabolism and blood chemistry of psychiatric patients. *African Medicine & Medical Sci.* 30:269-273.
53. Elemo, B. O. and **Akinwande, A. I.** (2000): Effect of osmotic diarrhea on the Nutritional status of rat. *Nig. Qt. J. Hosp. Med.* 10:113-117.

54. Elemo, B. O. Abaelu, A. M. and **Akinwande, A. I.** (2001): Effect of Secretory Diarrhoea on the protein Nutritional status of the rat. *Nig. J. Biochem and Mol. Biol.* 16:191-199.
55. **Akinwande, A. I.** (2002): Maternal and Post-Weaning malnutrition: Low protein Nigerian Diets hurt the brain. Inaugural Lecturer, University of Lagos.
56. Oladimeji, O. S., Magbagbeola, O. A, Peters, S. S., Odewole, T. A. and **Akinwande, A. I.** (2002) Serum Vitamin E. Cholesterol and Triglyceride levels of Nigerian women with unexplained infertility and recurrent miscarriage. *Nig. J. Health and Biomed. Sci.* 2:71- 75.
57. Odesanmi, O. S. Elesha, S. O., Magbegbeola, O. A. and **Akinwande, A. I.** (2003): Metabolic and Histopathological Effects of extracts of *Musanga cecropioidis* and Neogynon-EDFe in mature Female Sprague-Dawley rats. *Nig. Qt. J. Hosp. Med.* 13:52-57.
58. **Akinwande, A. I.** and Adebule, A. O. A. (2003): Ascorbic Acid and Beta-carotene alleviate oxidative Effect of London King Size ® cigarette smoke on tissue Lipids *Nig. J. Health and Biomed. Sci.* 2:12-15.
59. Ebuehi, O. M., Ebuehi, O. A. T. and **Akinwande, A. I.** (2004): Human Serum Protein- Bound Iodine and protein fractions at different physiological and Narciotic states. *Nig. Qt. J. Hosp. Med.* 14:257-261.
60. **Akinwande, A. I.**, Adekoya, N., Akande, G, Eyinna, E., Ogunkoya, B., Ososanya, S. and Essaba. I. D. (2005). Effect of dietary protein quality and quantity on Albino rat tissue and serum protein, erythrocyte fragility and Bone mineral content. *Nig. J. Health and Biomed Sc.* (in press).
61. **Akinwande, A. I.**, Okudo, O. E. and Chidolue, C. U. (2004) Haemoglobin and lungs total and lysosomal phosphatase activity response to passive cigarette smoking in the albino rat. *Nig. J. Health and Biomed. Sci.* 3: 123-130.
62. Oladimeji, O. S., Magbagbeola, O. A., Adewale, T. A., Vanderpuye, O. A. and **Akinwande, A. I.** (2004): The prevalence of antithyroglobulin and microsoma autoantibodies in euthyroid fertile and infertile Nigerian women with recurrent spontaneous abortion and unexpected infertility, *Nig. J. Health and Biomed Sci.* 3:96-99.
63. Iwalokun, B. A., Adelakun, O. M., Magbegbeola, O. A., Afolabi, A. S. and **Akinwande, A. I.** (2004): Effect of aqueous extracts of *Allium Sativum* on some parameters of oxidative stress in mice brain. *Nig. J. Natural Prod. And Med.* 18: 13-18.
64. Odesanmi, O. S. Magbagbeola, O. A, Osituga, G. M. and **Akinwande, A. I.** (2005): A comparison of the hormonal and metabolic effects of *Montandra guineensis* seed extracts and menstrogen on medgestational pregnant rabbits. *Nig. J. Health and Biomed. Sci.* 4:134- 138.
65. Olukosi, Y. A., Iwalokun, B. A., Magbagbeola, O. A., **Akinwande, A. I.**, Adewole, T. A., Agomo, P. U., Awolola, T. S.. (2005): Pattern of rural-urban acquisition of pfert allele among Nigerian children with acute uncomplicated *Plasmodium falciparum* malaria. *Afr. J. Biotech.* 4:361-366.
66. Olukosi, Y. A., Iwalokun, B. A., Magbagbeola, O. A., **Akinwande, A. I.**, Awolola, T. S., Agomo, P. U., (2005): Acquisition of pfert 76 and pfmdr – IY86 alleles by Pf isolates is associated with reduced efficacy of cq-cp in Nigerian children with acute malaria Abstract/Acta Tropica 95S (MIM – YO – 193312.
67. Adu, O. B., Omale, H. U., Salisu, O., Adeale, B., Magbagbeola, A. O. **Akinwande, A. I.** (2006): Effect of *Onchocerca guttorosa* infection on some enzymes and metabolites in mice, *J. Malaria Afr. And the Tropics* 2: 69-74.
68. Oladimeji, S. O., Laleye, F. O., Dsco, D. O. Magbegbeola, A. O. and **Akiwande, A. I.** (2007): In vitro Heparin precipitation in the Plasma of Euthyroid women with Recurrent Miscarriage and unexplained Infertility. *Nig. J. Health Biomed. Sci.* 6:14.

69. **Akinwande, A. I.**, Adeyemi, O. A. and Odiri, B. O. (2007): Effect of Aqueous Extract of *Alstonia congensis* on Glucose Transport and Na<sup>+</sup>K<sup>+</sup>ATpase Activity in the Everted and Non-Everted Guinea Pig Intestine and Erythrocyte Fragility Nig. J. Health Biomed. Sci. 6;5-9.
70. Oladimeji. O. S.: Bankole, H. A., Magbagbeola A. O: **Akinwande, A. I** (2007): Evaluation of Serum Testosterone levels as Immuno-Enhancer in Nigerian women Positive to Autoanti-Microsomal Antibodies and Experiencing Secondary Infertility and Spontaneous Abortion, Nig. J Health Biomed. Sci. 6: 21-24
71. Iwalokun, B. A., Efedede, B.U., Alabi-Sofunde, J.A Oduala, T. Magbagbeola, **Akinwande, A. I** (2006). Hepatoprotective and antioxidant activities of vernoniaamygdalina on acetaminophen induced Hepatic damage in Mice J Medicinal Food 9(4) 524-530
72. Adu, O.B., Magbagbeola, O.A and **Akinwande, A. I** (2008) Effect of Zinc on haematological parameters and serum mineral concentration in mice infected with *Onchocercavolvulus microfilaria*. Proceedings of International Conference on Research and Development 1 (25): 25-28.
73. Adu, O.B.,Magbagbeola, O. A and **Akinwande, A. I** (2009) Effect of Zinic on Haematological parameters and serum mineral concentrations in mice infected with *Onchocercavolvulus microfilaria*. Int J. Malaria and Tropical Diseases 5: 245-255
74. Bakare, R. I., Magbagbeola, O. A., **Akinwande A. I** and Ebuehi, O.A.T (2010) Effect of aqueous leaf extract of *Momordicacharantia* on Intestinal Enzyme Activities in Diarrhoeagenic mice. Nig. Quart J. Hosp. Med. 20: 24 – 28.
75. Bakare, R. I., Magbagbeola, O. A., **Akinwande A. I.**, Okunowo O. W and Green M (2011). Antidiarrhoeal activity of aqueous leaf extract of *Momordicacharantia* in rats Journal of Pharmacognosy and Phytotherapy. Vol. 3(1). Pp. 1-7
76. Bakare, R. I., Magbagbeola, O. A., **Akinwande A. I.**, and Okunowo O. W(2010). Nutitional and Chemical evaluation of *Momordicacharantia*. Journal of Medical Plants research. Vol. 4 (21) pp. 2189 – 2193.

**b. Articles that have appeared in referred Conference Proceedings**

1. **Akinwande, A. I** Undergraduate Courses leading to B.Sc Degree in Biochemistry- Review and future plans. Read at the Science Association of Nigeria and Biochemistry Section Workshop on Biomedical Education in Nigeria held at Ahmadu Bello University, Zaria, Decemeber, 1975.
2. **Akinwande, A. I** Postnatal Development of the body and Acetylcholine esterase in the brain of rats malnourished during lactation. Read at the First Scientific Conference of the Biochemical Society of Nigeria and the Biochemistry Section of SAN at the College of Medicine, University of Lagos, December, 1977.
3. **Akinwande, A. I.**, Chukwumah E. I., Iyoha. C. D and Solabi. A. O 1985. Cassava flour-Spinach Soup with small meat as maternal diet from mid-pregnancy to term influenced newborn baby composition and brain protein. 10th Annual Scientific Conference of Biochemical Society of Nigeria held in College of Medicine, University of Lagos, November 1985.
4. **Akinwande, A. I** Olaniyan R. O and Akinrimsi E. O 1985. Type of oil in gari-based maternal diet changed the profile of brain lipid fatty acids of the sucklings. 10thh Annual Scientific Conference of Biochemical Society of Nigeria held in College of Medicine, University of Lagos, November 1985.