2020 PROMOTION EXERCISE
CURRICULUM VITAE

I

a.	**Name:**	Sarah Onyenibe **Nwozo**
b.	**Department:**	Biochemistry
c.	**Faculty:**	Basic Medical Sciences

II.

a.	**First Academic Appointment:**	Lecturer II
b.	**Present Post(with date):**	Reader (01 October, 2015)
c.	**Date of Last Promotion:**	01 October, 2015
d.	**Date Last Considered (in cases where promotion was not through):**	Not applicable

III. University Education (with dates)

a.	University of Ibadan	1981 - 1985
b.	University of Ibadan	1987 - 1988
c.	University of Ibadan	1990 - 1999

IV. Academic Qualifications (with dates and granting bodies)

a.	Bachelor of Science (B.Sc Hons) (Chemistry) University of Ibadan	1985
b.	Master of Science (M.Sc) (Bioinorganic Chemistry) University of Ibadan	1998
c.	Doctor of Philosophy (PhD) (Biophysical Chemistry) University of Ibadan	1999

V. Professional Qualifications and Diplomas (with dates)

Nil

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

Nil

VII. Honours, Distinctions and Membership of Learned Society:

a. Member, Third World Organization of Women in Science (TWOS)

b. Member, Gender for Science and Technology (GASAT)

c. Member, Nigerian Chemical Society (NCS)

d. Member, Nigerian Society for Pharmacognosy (NSP)

e. Member, Western African Network of Natural Product Research Scientist (WANNPRESS)

f. Member, International College of Clinical Nutrition (ICCN)

g. Associate member, American Association for Cancer Research (ACCR) **VIII.**

Details of Teaching/Work Experience :

a. **Undergraduate:**

i. Teaching Assistant (1994 – 1997) in Chemistry Department and General Studies Programme) University of Ibadan, Ibadan. Teaching of tutorial classes, grading tutorial assignments for undergraduate students, practical class supervision and marking of practical notebook in Chemistry Department and as GES Teaching Assistant, taking tutorial classes and supervising examinations.

ii. Lecturer II (June – Nov, 1999) in Chemistry Department, Obafemi Awolowo University, Ile-Ife. Demonstrating in 200 & 300 L Practical class, examination supervision and marking of 100L examination in the Department. Teaching 200 and 300 Levels students courses in Physical Chemistry. iii. Lecturer II in Biochemistry Department, University of Ibadan (Nov 1999-Oct 2002)

iv. Lecturer I in Biochemistry Department, University of Ibadan (Oct 2002-2011) Teaching BSc Biochemistry: 1) Cell Biochemistry (BIC 201) 2) Water Equilibria and Biochemical Thermodynamics (BIC 202) 3) Carbohydrate Chemistry and Metabolism (BIC 302) 4) Instrumental and Analytical Methods in Biochemistry (BIC 307) 5) Principles of Food and Nutrition Biochemistry (BIC 309) 6) Comparative Biochemistry
(BIC 401) 7) Advanced Carbohydrate Biochemistry (BIC 403) 8) Comparative Biochemistry (BIC 413) 9) Techniques in protein extraction, protein quality evaluations, food processing and evaluation (BIC 415) 10) Plant biochemistry (BIC 417) Teaching MBBS/BDS: (Amino acids, proteins, carbohydrates, haemoglobin, haemoglobinopathies, blood clotting, prostaglandins, introduction to human nutrition, vitamins and minerals). Practical demonstrating/supervision to MBBS/BDS and BSc Biochemistry students.

v. I have given lectures to the following categories of students: i) 200, 300 and 400 levels BSc Biochemistry ii) 200 and 300 levels MBBS and BDS. iii) 200 and 300 levels Physiology, Microbiology and Human Nutrition iv) 200 level BSc Physiotherapy, Nursing and B. Pharmacy v) Nurse Tutors Certificate Students (Chemistry) (1995 –

2020) vi) Nurse Tutors Certificate Students (Biochemistry) (2002 – 2020) vii) 200 and

300 levels students in Chemistry (OAU, Ile- Ife) viii) 100 and 200 level (tutorials in GES and Chemistry)

vi. Undergraduate Project Supervision i) I have supervised forty (40) BSc projects since 2000. ii) I am presently supervising two (2) BSc projects

b. **Postgraduate:**

i. Postgraduate Teaching (MSc Level): 2004 to date I have given lectures to the following categories of postgraduate students (i) MSc Biochemistry (ii) MSc Human Nutrition Areas of biochemistry taught are as listed below: Teaching MSc Biochemistry students General Biochemistry (BIC 701) and Nutritional and Industrial Biochemistry (BIC 714).

ii. Postgraduate Project Supervision I have supervised about 30 MSc research projects and dissertations and I am currently supervising 4 MSc students.

iii. Internal Examiner (i) BSc Biochemistry, MBBS/BDS Part I Biochemistry, B. Pharm, BSc Human Nutrition, BSc Microbiology, BSc Physiotherapy, BSc Nursing examinations (2000 - date). (ii) MSc Biochemistry Examinations, University of Ibadan (2004 – date)

iv. Internal-External Examiner (i) MSc and PhD Students, Biosensor, Chemistry Department, University of Western Cape, Cape Town, South Africa (2013 – 2020) (ii) M.Phil., M.Phil./PhD students, (Pharmacognosy and Chemistry departments, University of Ibadan (2014 – date)

c. **Administrative Duties:**

i. 2015 - Date Reader in Biochemistry Department ii. 2011 – 2015 Senior Lecturer in

Biochemistry Department iii. 2002 – 2011 Lecturer I in Biochemistry Department iv.

2008 – 2019 Course Coordinator for non-majors programme

v. 2000 - 2005 Course Coordinator for the MBBS \ BDS programme vi.

2002- 2006 Sub-Dean (BSc programme) Faculty of Basic Medical Sciences vii.

2005 – 2007 Investigator MacArthur Curriculum review project viii. 2004 –

2006 Member Task force on collation of results (1985 -2005)

ix. 2005 – 2006 Investigator on modalities for admission exercise

d. **Community Service:**

IX. Research

a. **Completed**

i. Safety evaluations in animal models and search for health foods.

ii. Hepatoprotection of some common spices extract and rhizome oils in ethanol and carbon tetrachloride induced hepatotoxicity in rats.

iii. Radioprotection of hot aqueous extract of condiments frequently eaten with cola nut or used locally as spice (Aframomum melegueta; and Piper guineense) against liver damage in γ radiated rats.

iv. Heavy metal content in vegetables and spices; eggs from different poultry farms; different brands of tin tomatoes and in some ready to eat snacks we estimated the dietary intake and target hazard quotients.

v. Extraction, characterization of physicochemical properties, identification of fatty acids from seed oils and safety evaluations of oils in rats.

vi. Extraction, purification and characterization of antifungal trypsin protease inhibitor from seeds Blighia sapida.

vii. Antioxidant profiling in common fruits and effect of aquathermal treatment on fresh green leafy vegetables.

viii. Variations in antioxidants and B group of vitamins in cancer patients with treatment duration and in sickle cell patients compared to healthy adults.

ix. Evaluating seed oils for chemical composition, toxicity and radioprotection; antidiabetic, antioxidant, lipid metabolism activity and haemoglobin glycation in STZinduced diabetic animals

x. Evaluating edible seeds, un-common fruits and vegetables for antioxidants, vitamins levels, anti-nutrients content and effect of heat, handling methods, etc on these parameters.

b. **In Progress**

i. Screening all categories of alcoholic beverages for heavy metal contents and bioavailability studies of soils and water samples versus vegetables and fish toxic metal content.

Most alcoholic beverages had toxic metal contents within the tolerable limits, while the variations in fish, soil and vegetables varied with location.

ii. Effect of vitamin supplementation on rats exposed to toxicants and some health foods (comparative studies) as well as impact of nutrient deficiency on growth, vitamins, blood cells profile and toxicity.

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iii. Seed oils were characterized (physicochemical/constituents), evaluated for antimicrobial activity and efforts are ongoing to evaluate the probable effect in reducing spoilage in perishable foods as well as its impact on food characteristics and organol

Seed oils were characterized (physicochemical/constituents), evaluated for antimicrobial activity and efforts are ongoing to evaluate the probable effect in reducing spoilage in perishable foods as well as its impact on food characteristics and organoleptic effects.

iv. Effect of intake of banana on potassium levels in normal healthy rats

Potassium levels in the feed intake and amount excreted in urine and faeces would be determined.

v. Evaluating the efficacy of high pressure acidified steaming on mycotoxin elimination and how this affects nutritional and functional properties of grains

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vi. Isolation, purification, characterization of novel phytochemical from stem bark of common chewing sticks used in Nigeria.

Cell culture, apoptosis experiments with isolated compounds (on-going project from research visit to UWC). Also, evaluation of in-vitro bioactive compounds, fractions and extracts, especially those from chewing sticks and tea on tumors in-vivo in DMN induced rats. Generally, tumor sizes and number were fewer in animals on isolates from our plants.

vii. Protective effects of black grape juice (BGJ) in cancer patients' whole blood exposed ex-vivo to different doses of gamma radiation on antioxidants and blood cells and search for fruit juice in Nigeria which could offer radioprotection in exigencies.

The preliminary study with sixty patients should that intake of the juice caused over 100% increase in most antioxidant enzymes after 30 minutes compared to base line data but this gradually decreased after 3 hours.

c. **Project, Dissertation and Thesis**

i. Synthesis, reactivities and salt effect on the hydrolysis of 3-(4 methoxy phenyl azo) - 5 methylisoxazole.(BSc project)

ii. Studies on non-organometallic model complexes of vitamin B12 Diphenylglyoximate cobalt (III) complexes. (MSc. dissertation)

iii. Influence of Allosteric effectors on the reactivities of the F9[93]β and B5[23]β sulphydryl groups of chicken and pigeon hemoglobins. (PhD 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. Okonjo, K.O. , Aken'Ova, Y.A. , Aboluwoye, C.O. , **Nwozo, S.O. ,** Akhigbe, F.U. , Babalola, J.O. and Babarinde, N.A. (1996). Effect of A3[6] βGlu-val mutation on reactivity of the CysF9(93) Sulphydryl group of human haemoglobin S.*Journal of Chemical Society (Faraaday Transaaction* Vol.92.No.10:1739-1746pp (United States Of America) (Contribution : 20%)

2. Okonjo, K.O. and **Nwozo, S.O.** (1997). Ligand –dependent reactivity of the Cys B5(23)β .*Journal of Chemical Society (Faraaday Transaaction* Vol.93.No.7:1361-1366pp (United States Of America) (Contribution : 50%)

3. Babalola, J.O. and **Nwozo, S.O.** (2002). A new structure in the vicinity of HIS -HC3[146]β of pigeon haemoglobin induced by inositol hexakisphosphate.*Scientia Iranica* Vol.9.No.2:1-9pp (Iran) (Contribution : 50%)

4. Ajaiyeoba, E.O. , Onocha, P.A. , **Nwozo, S.O.** and Sama, W (2003). Antimicrobial and Cytotoxicity evaluation of Buchhozia coriacea stem bark.*Fitoterapia* Vol.74.No.0:706-709pp (Italy) (Contribution : 25%)

5. **Nwozo, S.O. ,** Adaramoye, O.A. and Ajaiyeoba, E.O. (2004). Anti-diabetic and hypolipidemic studies of Telifairia occidentalis on alloxan induced diabetic rabbits.*Nigerian Journal of Natural products and Medicine.* Vol.8.No.0:37-39pp (Nigeria) (Contribution : 60%)

6. Iwegbue, C.M.A. , **Nwozo, S.O. ,** Ossai, E.K. and Nwajei, G.E. (2008). Heavy metal composition of some imported canned fruit drinks in Nigeria.*American Journal of Food Technology* Vol.3.No.3:163-171pp (United States Of America) (Contribution : 40%)

7. Iwegbue, C.M.A. , Arimoro, F.O. and **Nwozo, S.O.** (2007). Study of heavy metal speciation in sediments impacted with crude oil in the Niger Delta, Nigeria. .*Anali di Chimica* Vol.97.No.-1:1143-1155pp (Italy) (Contribution : 30%)

8. Wansi, J.D. , **Nwozo, S.O. ,** Mbaze, L. , Devkota, K.P. , Moladje, S.M.D. , Fomum,Z.T.
and Sewald N. (2009). Amides from the stem bark of Fagara macrophylla .*Planta Medica* Vol.75.No.0:1-5pp (Germany) (Contribution : 30%)

9. Iwegbue, C.M.A. , **Nwozo, S.O. ,** Overah, L.C. and Nwajie, G.E. (2010). Survey of trace elements composition of commercial infant formulas in the Nigerian market.*food Additives and Contaminants* Vol.3.No.3:163-171pp (United Kingdom) (Contribution : 40%)

10. **Nwozo, S.O. ,** Ajayi, A.I. and Obadare, M. (2010). Phytochemical screening and antimicrobial activity of 10 medicinal seeds from Nigeria. .*Medicinal and Aromatic Plant Science and Biotechnology* Vol.4.No.1:73-75pp (Japan) (Contribution : 50%)

11. Ajayi, A. I. , **Nwozo, S.O.** and Adewuyi A. (2010). Antimicrobial activity and phytochemical screening of five selected seeds from Nigeria. .*International Journal of Biomedical and Pharmaceutical Sciences* Vol.4.No.2:104-106pp (Japan) (Contribution : 40%)

12. **Nwozo, S.O. ,** Orojobi, F. and Adaramoye, O.A. (2011). Hypolipidemic and antioxidant potentials of Xylopia aethiopica seed extract in hypercholesterolaemic rats. .*Journal of Medicinal Food* Vol.14.No.0:114-119pp (Korea) (Contribution : 60%)

13. **Nwozo, S.O.** and Orojobi, F.B. (2011). Hypolipidemic and antioxidant effects of Tetrapleura tetraptera fruits, including seeds in hypercholesterolaemic rats. .*Seed Science and Biotechnology* Vol.4.No.1:73-78pp (Japan) (Contribution : 80%)

14. Iwegbue, C.M.A. , Overah, C.L. , Ebigwai, J.K. , **Nwozo, S.O. ,** Nwajie, G.E. and Eguavoen O. (2011). Heavy metal contamination of some vegetables and spices in Nigeria..*International Journal of Biological and Chemical Sciences* Vol.5.No.2:766-773pp (Cameroon) (Contribution : 20%)

15. **Nwozo, S.O.** and Oyinloye, B.E. (2011). Hepatoprotective effect of aqueous extract of Aframomum melegueta on ethanol induced toxicity in rats..*Acta Biochimica Polonica* Vol.58.No.3:355-358pp (Poland) (Contribution : 80%)

16. **Nwozo, S.O. ,** Okameme, P. E. and Oyinloye, B. E. (2012). Potential of Piper guineense and Aframomum longiscapum to reduce radiation induced hepatic damage in male wistar rats..*Radiats Biol Radioecol* Vol.52.No.4:363-369pp (Japan) (Contribution : 70%)

17. Iwegbue, C.M.A. , **Nwozo, S.O. ,** Overah, C.L. , Ossai, E.K. , Mkpado, C.I. , Osazuwa, O. and Nwajei, G.E. (2012). Concentrations of selected metals in chicken eggs from commercial farms in southern Nigeria..*Toxicol Environ Chem* Vol.94.No.6:1152-1163pp (United States Of America) (Contribution : 30%)

18. Iwegbue, C.M.A. , Overah, L.C. , **Nwozo, S.O.** and Nwajei, G.E. (2012). Trace metal contents in some brands of canned tomato paste in Nigerian market.*American Journal of Food Technology* Vol.7.No.9:577-581pp (United States Of America) (Contribution : 30%)

19. **Nwozo, S.O. ,** Ajayi, I.A. and Iorliam, B.E. (2013). Preliminary toxicological evaluation of some biochemical parameters and lipid profile in Thevetia nerifolia seed oil supplemented diet in albino rats..*Leonardo Journal of Practices and Technology* Vol.12.No.22:43-58pp (Romania) (Contribution : 60%)

20. **Nwozo, S.O. ,** Osunmadewa, D.A. and Oyinloye, B.E. (2014). Anti-fatty liver effect of oils from Zingiber officinal and Curcuma longa on ethanol-induced fatty liver in rats..*Journal of Integrative Medicine* Vol.12.No.1:59-65pp (Singapore) (Contribution : 70%)

21. Iwegbue, C.M.A. , **Nwozo, S.O. ,** Overah, C.L. , Bassey, F.I. and Nwajie, G.E. (2013). Concentration of selected metals in some ready-to-eat-foods consumed in Southern

Nigeria: Estimation of dietary intakes and target hazard quotients.*Turkish Journal of Agriculture – Food Science and Technology* Vol.1.No.1:1-7pp (Turkey) (Contribution : 30%)

22. Oyinloye, B.E. , **Nwozo, S.O. ,** Amah, G.H. , Awoyinka, A.O. , Ojo, O.A. , Ajiboye, B.O. and Tijani, H.A. (2014). Prophylatic effect of aqueous extract of Sesamum indicum seeds on ethanol-induced toxicity in male rats..*Nutrition Research and Practice* Vol.8.No.1:54-58pp (South Korean) (Contribution : 30%)

23. **Nwozo, S.O. ,** Waryo, T. , Kgaribe, B. and Iwuoha, E. (2014). Isolation, partial purification and characterization of antifungal trypsin inhibitor protease from the seed of Blighia sapida K. Koenig (Ackee ackee)..*African Journal of Biotechnology* Vol.29.No.0:2996-3007pp (Kenya) (Contribution : 60%)

24. **Nwozo, S.O. ,** Awe, S. and Oyinloye, B.E. (2014). In-vitro antioxidant activity of extracts from leaves of ten commonly used medicinal plants – a comparative study..*Oxid Antioxid Med Sci.* Vol.3.No.3:211-215pp (Turkey) (Contribution : 70%)

25. **Nwozo, S.O. ,** Akpodono, E. and Oyinloye, B.E. (2015). Plasma, erythrocyte membrane bound enzymes and tissue histopathology in male wistar rats exposed to common insecticides..*Journal of Pesticide Science* Vol.40.No.1:13-18pp (Japan) (Contribution : 70%)

26. **Nwozo, S.O.** and Oyinloye, B.E. (2015). Ameliorative effect of stem bark extract of Piptadenia africana on ethanol-induced toxicity in male Wistar rats..*Der Pharmacia Lettre* Vol.7.No.4:40-46pp (India) (Contribution : 70%)

27. **Nwozo, S.O. ,** Kasumu, T.F. and Oyinloye, B.E. (2015). African nutmeg (Monodora myristica) lowers cholesterol and modulates lipid peroxidation in experimentally induced hypercholesterolemic male Wistar rats..*International Journal of Biomedical Science* Vol.11.No.2:86-92pp (United States Of America) (Contribution : 70%)

28. **Nwozo, S.O. ,** Oso, B.J. and Oyinloye, B.E. (2015). Effect of heat on antioxidant activity of some tropical leafy vegetables. .*Nigerian Journal of Basic Clinical Sciences* Vol.23.No.2:93-101pp (Nigeria) (Contribution : 70%)

29. *Oyinloye, B. , Adenowo, A.F. , Osunsanmi, F.O. , Ogunyinka, B.I. , **Nwozo, S.O.** and Kappo, A.P. (2016). Aqueous extract of Monodora myristica ameliorates cadmiuminduced hepatotoxicity in male rats. .*SpringerPlus* Vol.5.No.0:641-648pp (United States Of America) (Contribution : 20%)

30. *Oyinloye, B.E. , Ajiboye, B.O. , Ojo, O.A. , **Nwozo, S.O.** and Kappo, A.P (2016). Cardioprotective and antioxidative influence of aqueous extracts from Sesamum indicum seeds on oxidative stress induced by cadmium in Wistar rats.*Pharmacognosy Magazine* Vol.12.No.0:170-174pp (India) (Contribution : 20%)

31. ***Nwozo, S.O. ,** Adebowale, T.L. and Oyinloye, B.E. (2016). Defatted Detarium senegalense seed-based diet alters lipid profile, antioxidants level and sperm morphology in male albino rats..*International Journal of Biological and Chemical Sciences* Vol.10.No.3:928-943pp (Cameroon) (Contribution : 70%)

32. *Edem, V.F. , Akintunde, K. , Adelaja, A. , **Nwozo, S.O.** and Charles Davies, M.A. (2016). Zinc, Lead and cadmium levels in serum and milk of lactating women in Ibadan North.*Toxicology and Industrial Health* Vol.33.No.1:28-35pp (United States Of America) (Contribution : 20%)

33. ***Nwozo, S.O.** and Afolabi, A.B. (2016). Antioxidant, lipid modulating and hypoglyceamic effects of aqueous extract of Anarcardium occidentale leaves in streptozotocin-induced diabetic rats..*Journal of Molecular Pathophysiology* Vol.5.No.4:59-65pp (Turkey) (Contribution : 80%)

34. ***Nwozo, S.O. ,** Lewis, Y.T. and Oyinlioye, B.E. (2017). The effects of Piper guineese versus Sesamum indicum aqueous extracts on lipid metabolism and antioxidants in hypercholesterolemic rats. .*Iran Journal of Medical Sciences* Vol.42.No.5:449-456pp (Iran) (Contribution : 70%)

35. *Bello, K.O. , **Nwozo, S.O. ,** Oladele, J. , Mustapha, K.K. and Quadri, L.A. (2017). Methanolic extracts of Cochorous olitorous (L.) and Adansonia digitata (L.) leaves against irradiation induce atherosclerosis in male Wistar rats. .*Notulae Scientia Biologicae* Vol.9.No.2:182-187pp (Romania) (Contribution : 30%)

36. ***Nwozo, S.O. ,** Aladesuru, O.O. and Hammed, W.A. (2017). Evaluation of proximate, mineral and vitamin content of juices produced from imported and local lesser known fruits in Nigeria..*Annals. Food Science and Technology* Vol.18.No.3:402-412pp (Romania) (Contribution : 70%)

37. ***Nwozo, S.O. ,** Nwokocha, L.M. , Itigbiri, F. and Jimoh, Z. (2017). The impact of hydroxylpropylated cassava starch substitution in feed on growth, nutrition, biochemical and toxicological parameters in rat..*Leonardo Journal of Practices and Technology* Vol.40.No.30:59-74pp (Romania) (Contribution : 0%)

38. ***Nwozo, S.O. ,** Ozegbe, P.C. and Olusanya, O. (2017). Carbendazim alters kidney morphology, kidney function test, tissue markers of oxidative stress and serum microelements in rats fed protein-energy malnourished diet. .*International Journal of Biological and Chemical Sciences* Vol.11.No.3:1046-1055pp (Cameroon) (Contribution : 50%)

39. ***Nwozo, S.O.** and Oyinloye, B.E. (2017). Piptadenia africana: enhances weight gain, oxidative stress, and hyperlipidemia in normal and hypercholesterolemic male Wistar rats. .*Journal of Food and Pharmaceutical Sciences* Vol.5.No.0:20-24pp (Indonesia) (Contribution : 80%)

40. ***Nwozo, S.O. ,** Adeneye, D.A. and Nwawuba, S.U. (2018). Effect of Solanum melongena fruits supplemented diet on hyperglecemia, overweight, liver function and dyslipidemia in male New Zealand rabbits fed fat and sucrose diet. .*Integrative Obesity and Diabetes* Vol.4.No.3:1-5pp (United States Of America) (Contribution : 70%)

41. ***Nwozo, S.O. ,** Fajimeye, I. and Oyinloye, B (2018). Moringa oleifera leaves modulate blood glucose concentration, lipid profile and carbohydrate metabolizing enzymes in streptozotocin diabetic rats. .*World Heart Journal* Vol.10.No.3:214-222pp (United States Of America) (Contribution : 70%)

42. *Saliu, M. and **Nwozo, S.O.** (2018). Nutritional potential of Zingiber officianale, Allium sativum and Malus domestica dried fleshy portion as additives in diet. .*International Journal of Basic and Applied Sciences* Vol.42.No.1:32-39pp (Jordan) (Contribution : 50%)
43. ***Nwozo, S.O. ,** Bajehson, J.R. , Waryo, T. and Iwuoha, E.I. (2018). Characterization and nutritional evaluation of Detarium senegalense seed oil-based diet in male Wistar rats..*Nutrition and Food Science International Journal* Vol.7.No.4:1-8pp (India) (Contribution : 60%)

44. ***Nwozo, S.O. ,** Modeme, T.E. and Nwawuba, S.U. (2018). Evaluation of Mormodica charantia, Boerhaavia diffusa and cotreatment on streptozotocin induced diabetes in male Wistar rats. .*International Journal of Biomedical Science* Vol.4.No.2:66-73pp (United States Of America) (Contribution : 70%)

45. *Owumi, S.E. , **Nwozo, S.O. ,** Akinade, Q.E. and Akinwumi, O.A. (2019). Piptadenia africana and Nauclea latifolia protects against diethylnitrosamine-induced hepatic tumours in Wistar rats. .*Archives of Basic and Applied Medicine* Vol.6.No.0:141-150pp (Nigeria) (Contribution : 40%)

46. *Owumi, S.E. , **Nwozo, S.O.** and Najophe, S. (2019). Quercetin abates induction of hepatic and renal oxidative, inflammation and apoptosis in Carbendazim treated rats. .*Toxicology Research and Application* Vol.3.No.0:1-8pp (United States Of America) (Contribution : 30%)

47. ***Nwozo, S.O. ,** Daramola, O.V. and Nwawuba, S.U. (2019). Ameliorative effect of fermented Pentaclethra macrophylla (African oil bean seed) on high fat diet and sucrose induced metabolic syndrome in male New Zealand rabbits..*Journal of Basic Applied Research in Biomedicine* Vol.5.No.1:42-48pp (Jordan) (Contribution : 70%)

48. ***Nwozo, S.O. ,** Ikpeme, G.F. and Nwawuba, S.U. (2019). Functional dietary supplementation of Okara (Soybean residue) on streptozotocin induced diabetes mellitus in male Wistar rats. .*Global Journal of Medical Research:K Interndisciplinary* Vol.19.No.5:17-28pp (United States Of America) (Contribution : 70%)

49. *Owumi, S.E. , **Nwozo, S.O. ,** Igbokwe, C.O. and Akinwumi, O.A. (2019). Cissampelos capensis and Pleiocarpa pycantha extracts protect against N-nitrosodiethylamine-induced hepatotoxicity in Wistar rats. .*Archives of Basic and Applied Medicine* Vol.7.No.0:57-65pp (Nigeria) (Contribution : 30%)

50. ***Nwozo, S.O. ,** Nyam, A.N. , Nwawuba, S.U. and Olukotun, O.I. (2019). Hypoglycemic and antioxidant capacity of Curcuma longa and Viscum album in alloxan induced diabetic male Wistar rats. .*International Journal of Diabetes and Endocrinology* Vol.4.No.1:26-34pp (United States Of America) (Contribution : 60%)

51. ***Nwozo, S.O.** and Nwawuba, S.U. (2019).) Evaluation of antidiabetic role of Bridelia ferruginea methanol leaf extract in Streptozocin induced diabetic male rats..*Pharmacy Pharmacology International Journal* Vol.7.No.6:264-26pp (United States Of America) (Contribution : 80%)

52. ***Nwozo, S.O.** and Effiong, M.E. (2019). Phytochemical composition, mineral content and antioxidant activities of methanol extract of Curcuma longa and Viscum

album..*Journal of Food and Pharmaceutical Sciences* Vol.7.No.1:45-54pp (Indonesia) (Contribution : 80%)

53. ***Nwozo, S.O. ,** Julius, O.O. and Nwawuba, S.U. (2019). The effect of processing methods on the nutritional quality of African breadfruits (Treculia africana) seeds..*Journal of Indonesian Food and Nutrition Progress.* Vol.16.No.2:60-66pp (Indonesia) (Contribution : 70%)

54. ***Nwozo, S.O. ,** Ukeje, O.M. and Ifie, E.J, (2020). The radio-protective effect of nHexane extracts of Telifaria occidentalis (Hook.F.) and Cucumeropsis mannii (Naud) seed oils on the liver of irradiated male Wistar rats..*Plant Science Today* Vol.7.No.3:1-9pp (India) (Contribution : 70%)

55. *Owumi, S.E. , Danso, O.F. and **Nwozo, S.O.** (2020). Gallic acid and omega-3-fatty acids mitigate epididymal and testicular toxicity in manganese treated rats. .*Andrologia* Vol.52.No.7:e13630pp (United Kingdom) (Contribution : 30%)

56. *Owumi. S.E. , **Nwozo, S.O. ,** Effiong, M.E. and Najophe, E.S. (2020). Gallic and Omega-3-fatty acids decrease inflammatory and oxidative damage in manganesetreated rats..*Experimental Biology and Medicine* Vol.245.No.0:835-844pp (United States Of America) (Contribution : 30%)

57. ***Nwozo, S.O. ,** Hammed, W.A. and Nwawuba, S.U. (2020). Ameliorative effects of Cajanus cajan on high-fat diet and streptozotocin-induced diabetes in male New Zealand rabbits..*World Heart Journal* Vol.12.No.2:109-117pp (United States Of America) (Contribution : 70%)

58. *Aninye, I.I. , Olawale, F. , Ajaja, U.T. and **Nwozo, S.O.** (2020). Long-term hyperglycaemia impairs hormonal balance and induces oxidative damage in ovaries of streptozotocin-induced diabetic Wistar rats. .*Nigerian Journal of Physiological Sciences* Vol.35.No.1:46-51pp (Nigeria) (Contribution : 30%)

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. Fourth American Association for Cancer Research (AACR) International Conference: Frontiers in Basic Cancer Research Pennysylvannia Convention Center Philadelphia, American Association for Cancer Research (AACR), Philadelphia, United States of America . 23-26 October 2015.

   Paper Read: Piptadenia africana protects against N-Nitrosodiethylamine induced hepatic tumors in Wistar rats

2. 10th FASBMB CONGRESS/ 34th NSBMB Conference. Biochemistry and Molecular Biology: Challenges and prospects for Africa,s sustainable development in the 21st century., FASBMB, Minna, Nigeria . 2-6 November 2015.

Paper Read: Cissampelos capensis and Pleiocarpa pycantha extracts protect against N-nitrosodiethylamine-induced hepatotoxicity in Wistar rats

3. 23rd World Congress on Clinical Nutrition, International College of Clinical Nutrition , Makhachkala, Russia . 16-21 November 2019.

Paper Read: Ameliorative effects of Cajanus cajan on high-fat diet and streptozotocininduced diabetes in male New Zealand rabbits

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

1. **Nwozo, S.O. ,** Adaramoye, O.A. and Ajaiyeoba, E.O. (2004). Anti-diabetic and hypolipidemic studies of Telifairia occidentalis on alloxan induced diabetic rabbits, Nigerian Journal of Natural Products and Medicine. Vol. 8.0. pp 37-39 (Nigeria) (Contribution : 60%)

2. **Nwozo, S.O. ,** Orojobi, F. and Adaramoye, O.A. (2011). Hypolipidemic and antioxidant potentials of Xylopia aethiopica seed extract in hypercholesterolaemic rats. , Journal of Medicinal Food Vol. 14.0. pp 114-119 (Korea) (Contribution : 60%)

3. **Nwozo, S.O.** and Oyinloye, B.E. (2011). Hepatoprotective effect of aqueous extract of Aframomum melegueta on ethanol induced toxicity in rats., Acta Biochimica Polonica Vol. 58.3. pp 355-358 (Poland) (Contribution : 80%)

4. **Nwozo, S.O. ,** Okameme, P. E. and Oyinloye, B. E. (2012). Potential of Piper guineense and Aframomum longiscapum to reduce radiation induced hepatic damage in male wistar rats., Radiats Biol Radioecol Vol. 52.4. pp 363-369 (Japan) (Contribution : 70%)

5. (). , Vol. .. pp () (Contribution : %)

6. **Nwozo, S.O. ,** Osunmadewa, D.A. and Oyinloye, B.E. (2014). Anti-fatty liver effect of oils from Zingiber officinal and Curcuma longa on ethanol-induced fatty liver in rats., Journal of Integrative Medicine Vol. 12.1. pp 59-65 (Singapore) (Contribution : 70%)

7. **Nwozo, S.O. ,** Lewis, Y.T. and Oyinlioye, B.E. (2017). The effects of Piper guineese versus Sesamum indicum aqueous extracts on lipid metabolism and antioxidants in hypercholesterolemic rats. , Iran Journal of Medical Sciences Vol. 42.5. pp 449-456 (Iran) (Contribution : 70%)

8. **Nwozo, S.O. ,** Aladesuru, O.O. and Hammed, W.A. (2017). Evaluation of proximate, mineral and vitamin content of juices produced from imported and local lesser known fruits in Nigeria., Annals. Food Science and Technology Vol. 18.3. pp 402-412 (Romania) (Contribution : 70%)

9. **Nwozo, S.O. ,** Waryo, T. , Kgaribe, B. and Iwuoha, E. (2014). Isolation, partial purification and characterization of antifungal trypsin inhibitor protease from the seed of Blighia sapida K. Koenig (Ackee ackee)., African Journal of Biotechnology Vol. 29.0.
pp 2996-3007 (Kenya) (Contribution : 60%)

10. **Nwozo, S.O. ,** Ozegbe, P.C. and Olusanya, O. (2017). Carbendazim alters kidney morphology, kidney function test, tissue markers of oxidative stress and serum microelements in rats fed protein-energy malnourished diet. , International Journal of Biological and Chemical Sciences Vol. 11.3. pp 1046-1055 (Cameroon) (Contribution :
50%)

Research Focus :

My research interest is primarily in the area of health foods; search for novel bioactive food components especially from seeds and fruits; assessment of their efficacy in disease condition; determining the suitable quantity for consumption and their possible side effects. Lifestyle changes, consumption of food from outlets, greater sedentary lifestyle and diseases of improved affluence has made it mandatory to look inward for medicinal foods. My research has made contributions to the management of elevated serum lipids using Eastern Nigerian pepper soup species, especially those used after birth. Furthermore, other food condiments which have proved to be effective in the management of liver tissue toxicity have been identified. I have been able to show that exposure to some exogenous substances such as gamma radiation, chemical toxins, excessive intake of ethanol could produce deleterious reactions in animals and by extension man; but some of the seeds I have researched could play modulatory roles. I have also shown through my research that sugars from dates mesocarp, antioxidant-rich oils from Zanthoxylum species, oils from ginger and curry rhizome have hepatoprotective properties, and could help maintain a healthy lipid profile. I have also demonstrated that some seeds which are left to waste annually could be put to useful purposes as a substitute for vegetable oil in animal feed formulation with minimal toxic effects as in yellow oleander. With Bligha sapida, another seed left to waste, I was able to extract, purify and characterize an antifungal protease from it which could be put into use for pathogen control, especially as its activity was comparable with reference antifungal drugs. Heavy metals (essential and toxic types) which I have been able to quantify in different foods will contribute to building the database of composition and daily allowed requirement intake of such foods (fruit drinks, eggs, vegetables, tomatoes, spices, baby milk, etc.). In summary, my research work spans nutrient level evaluations, medicinal foods and safety levels of heavy metals in foods locally available in our markets. I have identified some environmental hazardous substances in foods and drinks which could prove toxic with uncontrolled consumption and health foods which could protect against these chemical challenges. My work continues in this area of interest.

Names **Signature** **D**