



CURRICULUM VITAE

A. PERSONAL DATA

1. **Name (underline Surname):** AVWIOROKO, OGHENETEGA JONATHAN
2. **Date of Birth:** 31st July, 1982
3. **Marital Status:** Married
4. **Postal Address:** Department of Biochemistry, Faculty of Basic Medical Sciences, Redeemer's University, Ede, Osun State, Nigeria.
5. **E-mail Address:** avwiorokoo@run.edu.ng or joavwioroko@gmail.com
6. **Mobile Phone Number:** +2347038485516
7. **No. of Children and their Ages:** Three (8, 5 and <3 year)
8. **Name and Address of Spouse:** Mrs Ejiroghene D. Avwioroko, No 12 Dar Salaam Street, Ededimeji-Ede, Osun State, Nigeria.
9. **Name and Address of Next of Kin:** Mrs Ejiroghene D. Avwioroko (Wife), No 12 Dar Salam Street, Near Ededimeji junction, Ede, Osun State, Nigeria.
10. **Nationality:** Nigeria
11. **If Nigerian, indicate State of Origin:** Delta

B. EDUCATIONAL BACKGROUND

1. Higher Educational Institutions Attended with Dates

- (i) Delta State University, Abraka, Nigeria. 2010-2015
- (ii) University of Ibadan, Ibadan, Oyo State, Nigeria. 2007-2009
- (iii) Delta State University, Abraka, Nigeria. 2002-2005
- (iv) Microsurgeon Computer Technology and Training Institute, Warri, Delta State. 2001
- (v) Ovu Grammar School, Ovu Inland, Delta State. 1993-1999

2. Academic and Professional Qualifications

(i) Doctor of Philosophy (Ph.D) degree in Biochemistry	2015
(ii) Master of Science (M.Sc) degree in Biochemistry (Ph.D Grade)	2009
(iii) B.Sc (Hons) degree in Biochemistry (Second Class Upper Division)	2005
(iv) Certificate in Computer Proficiency and skills (ICT certified)	2001
(v) Senior Secondary School Cert: West African Examination Council (WAEC GCE)	1999

3. Other Distinctions and Awards

- (i) Redeemer's University Senate's Commendation to me (communicated via a Letter) on June 29, 2018, for spending extra hours to teach 2017/2018 Batch B students and appreciation of the sacrificial effort put in towards ensuring that the students were well groomed academically.
- (ii) African Research Laboratories PhD Scholarship Award (Tuition Assistant Scheme) 2011, 2012.
- (iii) University of Ibadan Baptist Church Postgraduate (M.Sc) Scholarship Scheme Award 2009.

C. EMPLOYMENT RECORD

1. Previous Working Experience outside the University System

- a) **Research Fellow/ Manager:** Dr. Avwioroko has more than five years' experience in postgraduate and undergraduate researches in Biochemistry, Molecular Biology and Biotechnology at the African Research Laboratories, Otorho-Agbon, Ethiope East, Delta State, Nigeria where he served as a Research Fellow and Manager. November 2009 – September 2016.
- b) **Peer Reviewer:** Dr. Avwioroko had served as a peer-reviewer for a number of national and international scholarly journals. Namely; Heliyon (Elsevier B.V., Netherlands); Scientific African (Elsevier B.V., Netherlands); BioEnergy Research (Springer Nature, New York, USA); Waste and Biomass Valorization (Springer Nature, New York, USA); Jordan Journal of Biological Sciences (Hashemite University, Jordan); Journal of Scientific Research (Rajshahi University, Bangladesh); International Journal of Basic Science and Technology (IJBST, University Journal, Nigeria); Nigerian Journal of Science and Environment (NJSE, University Journal, Nigeria); Biotechnology and Molecular Biology Reviews (BMBR, Nigeria), African Journal of Biochemistry Research (AJBR, Nigeria), African Journal of Biotechnology (AJB, Nigeria) etc.
- c) **Chemistry teacher (NYSC):** He taught Chemistry during his time as a National Youth Service Corps member at the City Comprehensive Secondary School (CCSS), Nkeref, Nkanu East LGA, Enugu State. June 2006 – July 2007.
- d) **Biology/Chemistry Teacher and Laboratory Scientist:** Itu Royal College, Udu road, Warri, Delta State. January – May 2006.
- e) **Laboratory assistant,** Medical Diagnostic Laboratory, Baptist Medical Centre, Eku, Delta State: Student Industrial Work Experience Scheme (2003/2004).

2. Previous Working Experience in other Universities

- a) **PhD Teaching Assistant (Unofficial):** Dr. Avwioroko had been privileged to acquire initial lecturing and project supervision experiences at the Department of Biochemistry, Faculty of Science, Delta State University, Abraka, Nigeria wherein he taught undergraduates (unofficially) during his PhD studentship and was also involved in supervision of B.Sc and M.Sc students' projects. November 2010 – September 2015.
- b) **L.O.C. (Local Organizing Committee) Member:** He actively served as one of the L.O.C members of the First Regional Conference on 'IMPACT OF CRUDE OIL EXPLORATION IN THE NIGER DELTA', organised by the African Research Institute in conjunction with the Centre for Research and International Programmes, Delta State University, Abraka; October 31st - November 3rd, 2012.

3. Working Experience at the Redeemer's University

- (i) Departmental Examination Officer, Department of Biochemistry, Faculty of Basic Medical Sciences, Redeemer's University, Ede, Nigeria (Nov. 2019- till date).
- (ii) Departmental Time Table Officer, Department of Biochemistry, Faculty of Basic Medical Sciences, Redeemer's University, Ede, Nigeria (Nov. 2019- till date).
- (iii) Level Adviser, 100 and 400+ Levels Students, Department of Biochemistry, Faculty of Basic Medical Sciences, Redeemer's University, Ede, Nigeria (Sept. 2020- till date).
- (iv) Member, Quality Assurance (QA) Team, Faculty of Basic Medical Sciences, Redeemer's University, Ede, Nigeria (June 2021- till date).
- (v) Ad hoc Pioneer Departmental Meeting Secretary, Department of Biochemistry, Faculty of Basic Medical Sciences, Redeemer's University, Ede, Nigeria (Nov. 2019- Dec. 2019).
- (vi) Level Adviser, 400 and 400+ Levels Students, Department of Biochemistry, Faculty of Basic Medical Sciences, Redeemer's University, Ede, Nigeria (Nov. 2019- Aug. 2020).
- (vii) Active member, Departmental Board of Examiners, Department of Biochemistry, Faculty of Basic Medical Sciences, Redeemer's University, Ede, Nigeria.
- (viii) Active member, Faculty Board of Examiners, Department of Biochemistry, Faculty of Basic Medical Sciences, Redeemer's University, Ede, Nigeria.
- (ix) Lecturer I, Department of Biochemistry, Faculty of Basic Medical Sciences, Redeemer's University, Ede, Nigeria (3rd Oct., 2019 – till date).
- (x) Assistant Departmental Examination Officer, Department of Chemical Sciences (Biochemistry and Industrial Chemistry Programmes), Redeemer's University, Ede, Nigeria (April. 2019- Oct. 2019).
- (xi) Acting Departmental Examination Officer, Department of Chemical Sciences (Biochemistry and Industrial Chemistry Programmes), Redeemer's University, Ede, Nigeria (Jan. 2019- March. 2019).
- (xii) Level Adviser, 200 Level Students, Department of Chemical Sciences (Biochemistry Programme), Redeemer's University, Ede, Nigeria (Oct., 2018- Oct. 2019).

- (xiii) Departmental Time Table Officer, Department of Chemical Sciences, Redeemer's University, Ede, Nigeria (Jan. 2017- Oct. 2019).
- (xiv) Assistant Departmental Examination Officer, Department of Chemical Sciences (Biochemistry Programme), Redeemer's University, Ede, Nigeria (Oct. 2017- Dec. 2018).
- (xv) Assistant Departmental Meeting Secretary, Department of Chemical Sciences, Redeemer's University, Ede, Nigeria (Oct., 2017- Oct. 2019).
- (xvi) Level Adviser, 100 Level Students, Department of Chemical Sciences (Biochemistry Programme), Redeemer's University, Ede, Nigeria (Oct., 2017- Aug. 2018).
- (xvii) Pioneer Level Adviser (Interim), 100 Level Students, Department of Nursing Science, College of Basic Medical Sciences, Redeemer's University, Ede, Nigeria (Oct., 2017- Dec. 2018).
- (xviii) Level Adviser, 400+ Level Students, Department of Chemical Sciences (Biochemistry Programme), Redeemer's University, Ede, Nigeria (Oct., 2016- Sept. 2017).
- (xix) Active member, Departmental Board of Examiners, Department of Chemical Sciences, Redeemer's University, Ede, Nigeria.
- (xx) Active member, College Board of Examiners, Redeemer's University, Ede, Nigeria.
- (xxi) Lecturer II, Biochemistry Programme, Department of Chemical Sciences, Redeemer's University, Ede, Nigeria (3rd Oct., 2016 – Sept. 2019).

D. DEPARTMENT/ FACULTY OF CANDIDATE

**Department of Biochemistry/
Faculty of Basic Medical Sciences.**

E. DATE OF FIRST APPOINTMENT AT THE REDEEMER'S UNIVERSITY

October 3, 2016

F. DATE OF CONFIRMATION OF APPOINTMENT AT THE REDEEMER'S UNIVERSITY

G. CURRENT SALARY AND GRADE LEVEL:

N 2,629,706.4 (RUASS 4 Step 2)

H. CURRENT POSITION AND DATE OF LAST PROMOTION/APPOINTMENT/REGRAIDING

Lecturer I (October 3, 2019)

I. MEMBERSHIP OF PROFESSIONAL BODIES

- i. Post-doctoral Member, American Society for Pharmacology and Experimental Therapeutics (ASPET), USA. (ID: 00055797)
- ii. Post-doctoral Member, Society of Toxicology (SOT), USA.
- iii. Member, Nigerian Society of Biochemistry and Molecular Biology (NSBMB).

J. IMPORTANT ADMINISTRATIVE POSITIONS HELD AT THE REDEEMER'S UNIVERSITY

K. OTHER POSITIONS WITHIN THE REDEEMER'S UNIVERSITY

- (i) **Departmental Examination Officer:** Dr Avwioroko currently serves as the departmental examination officer (DOE) at the Department of Biochemistry, Redeemer's University, Ede, Nigeria (Nov. 2019- till date).
- (ii) **Member, Departmental & Faculty QA Teams:** Dr Avwioroko is presently a member of both the departmental and faculty Quality Assurance (QA) Committees, Department of Biochemistry, Faculty of Basic Medical Sciences, Redeemer's University, Ede, Nigeria from whence he also contributes to the growth of the institution (Jun. 2021- till date).
- (iii) **Assistant Departmental Examination Officer:** Dr Avwioroko served as an assistant departmental examination officer (AgDOE) for both Biochemistry and Industrial Chemistry programs at the Department of Chemical Sciences, Redeemer's University, Ede, Nigeria (Oct. 2017- Oct. 2019).
- (iv) **Level Adviser, 100/ 400+ Level Biochemistry Students:** Dr Avwioroko is the current Level Adviser for 100/400+ Levels undergraduate students at the Department of Biochemistry, Redeemer's University, Ede, Nigeria (Aug. 2020 – till date).
- (v) **Level Adviser, 400/ 400+ Level Biochemistry Students:** Dr Avwioroko served as the Adviser for 400/400+ Levels undergraduate students at the Department of Biochemistry, Redeemer's University, Ede, Nigeria (Nov. 2019- Aug. 2020).
- (vi) **Level Adviser, 200 Level Biochemistry Students:** Dr Avwioroko served as the Level Adviser for 200 Level undergraduate students at the Department of Chemical Sciences (Biochemistry Programme), Redeemer's University, Ede, Nigeria (Sept., 2018- Oct. 2019).
- (vii) **Departmental Time-Table Officer:** It has been a privilege that Dr Avwioroko, who was endowed with the responsibility of a Time-Table Officer at the Department of Chemical Sciences (both Industrial Chemistry and Biochemistry Programmes) (Jan. 2017- Oct. 2019), is also given the mandate to continue in the same capacity as Time Table Officer in the maiden Department of Biochemistry, Redeemer's University, Ede, Nigeria (Nov. 2019- till date).
- (viii) **Ad hoc Pioneer Departmental Meeting Secretary:** Dr O.J. Avwioroko was also privileged to serve as an *Ad hoc* pioneer Departmental Meeting Secretary for the maiden Department of Biochemistry, Faculty of Basic Medical Sciences, Redeemer's University, Ede, Nigeria before handing over the responsibility of the departmental meeting secretary office to a newly employed member of staff (Miss T. Abiola) (Nov. 2019- Dec. 2019).
- (ix) **Assistant Departmental Meeting Secretary:** Dr Avwioroko had also served as an assistant Departmental Meeting Secretary, Department of Chemical Sciences (for

both Industrial Chemistry and Biochemistry Programmes), Redeemer's University, Ede, Nigeria (Oct., 2017- Oct. 2019).

- (x) **Level Adviser, 100 Level Biochemistry Students:** Dr Avwioroko had served in the capacity of a Level Adviser for 100 Level undergraduate students at the Department of Chemical Sciences (Biochemistry Programme), Redeemer's University, Ede, Nigeria (Oct., 2017- Aug. 2018).
- (xi) **Pioneer Level Adviser, 100 Level Nursing Students (Interim):** Dr Avwioroko was also privileged to serve as the pioneer Level Adviser for 100 Level undergraduate students for the then newly established Department of Nursing Science, College of Basic Medical Sciences, Redeemer's University, Ede, Nigeria (Oct., 2017- Dec. 2018).
- (xii) **Level Adviser, 400+ Level Biochemistry Students:** Dr Avwioroko served as the Level Adviser for 400+ undergraduate students, Department of Chemical Sciences (Biochemistry Programme), Redeemer's University, Ede, Nigeria (Oct., 2016- Sept. 2017).

L. RESEARCH ACTIVITIES

Dr Avwioroko is currently involved in a number of researches some of which include the following:

- (i) Discovery and description of pharmacological/therapeutic agents from medicinal plants and simulation of their mechanisms of action using molecular docking.
- (ii) Investigation of novel enzyme-inhibitor intermolecular interactions of clinical relevance using various arrays of spectroscopic methods including fluorescence quenching, UV-VIS spectra, Fourier transformed Infrared (FTIR) spectroscopy etc and traditional kinetic models.
- (iii) Enzyme production from microbial and non-microbial sources, molecular/biochemical characterisation and modern-day biotechnological applications.
- (iv) Characterisation of industrial and diagnostic enzymes using biochemical, molecular and bioinformatics approaches.
- (v) Utilization of the kinetics and enzyme inhibition pattern of some traditional medicinal plants in management of some non-communicable diseases including type 2 diabetes.

M. ATTRACTION OF RESEARCH GRANTS

N. POSTGRADUATE SUPERVISION

Dr O.J. Avwioroko presently co-supervises the research project of Mr Kelly Ushedu, a postgraduate (M.Sc) student at the Department of Biochemistry, Faculty of Basic Medical Sciences, Redeemer's University, Ede, with Dr O.O. Olukanni and the research work is near completion.

O. HONOURS/DISTINCTIONS AND AWARDS

P. MAJOR ACADEMIC-RELATED SERVICES TO THE NATION OUTSIDE THE UNIVERSITY SYSTEM

- (i) Dr O.J. Avwioroko does voluntary Peer-review of research manuscripts for both international and national well-indexed journals of high-rated publishers such as Elsevier B.V. (Netherlands), Springer Nature (New York, USA), and several University journals etc.
- (ii) He is also involved in Youth Career Talks, especially those relating to Education Drive, Young Professionalism and Premarital Counseling.
- (iii) Counseling of NYSC members on early M.Sc pursuit and effective time-engagement during the service year, e.g via Rural Evangelism etc.
- (iv) Extending a hand of Support/Charity to Undergraduate, ND and postgraduate students, and also to Evangelism-oriented Bodies and needy ones in his immediate environment.
- (v) Dr O.J. Avwioroko is also involved in playing of musical instruments (Piano and Bass guitar) for gospel songs within and outside his church, Redeemed Christian Church of God, Bethel Place Paris, Ede, Osun State, Nigeria, for the edification of God's people and salvation of souls.

Q. IMPORTANT LEARNED CONFERENCES/ WORKSHOPS/ COURSES ATTENDED WITH DETAILS ON PAPER PRESENTATION

- (i) O. J. Avwioroko, A. A. Anigboro, C. A. Otuechere, F. A. Atanu, A. M. Adefope and E. U. Durugbo (2020). Antioxidant, α -amylase and arginase inhibitory capacities of *Tacca leontopetaloides* stem and leaves phenolic extracts: An *in vitro* assessment. A paper presented at the 5th National Conference on Environment and Health by the LivingScience Foundation, Ile-Ife, Nigeria on the theme: 'Combating Environmental and Occupational Cancers in Nigeria'. Venue: Redeemer's University, Ede, Osun State, Nigeria. Date: Tue.13th –Wed. 14th October, 2020.
- (ii) A webinar organized via Zoom by the University Research Grant and Staff Development Committee (URG&SDC), Redeemer's University, Ede, Nigeria on the Theme: "How to write a grant winning proposal". Date: Friday July 10, 2020. Time: 10:00 am. (Participant)
- (iii) A webinar organized via Zoom by Moodley Daneshree (ELS) and Mary Ann Zimmerman (Harare, Pretoria) in conjunction with the Elsevier Services & Support (Netherlands) on the Theme: "The Article Publishing Process: An Elsevier Author Workshop". Date: Monday June 1, 2020. Time: 1:00 PM (Pretoria time). (Participant)
- (iv) **O.J. Avwioroko**, A. Ekozin, O.M. Alfred, A.A. Anigboro, T.A. Adebayo, G.G. Daramola, J.N. Abugo and F.O. Atanu (2019). *Chrysophyllum albidum* (African cherry) seed methanolic extract and its green synthesized silver nanoparticle inhibit key enzyme associated with postprandial glucose regulation in type 2 diabetes and oxidative stress in rats' pancreatic tissues. A paper presented at the 4th National Conference on Environment and Health by the LivingScience Foundation, Ile-Ife, Nigeria on the theme: 'Managing the Environment-Nutrition Nexus for optimal Public Health'. Venue: Redeemer's University, Ede, Osun State, Nigeria. Date: Tue.9th – Wed. 10th April, 2019.

- (v) Advanced Appreciation Programme for Tertiary Institutions (ADAPTI) Statistical Package for Social Sciences (SPSS); a 4-day workshop organized by the Digital Bridge Institute, Abuja and Nigeria Communications Commission (NCC), in collaboration with Redeemer's University; held at the ICT Centre, Redeemer's University, Ede, Osun State, Nigeria. Date: 11 - 14th June, 2018.
- (vi) **O.J. Avwioroko**, A.A. Anigboro, S.A. Ejoh, A.M. Okeke, and N.J. Tonukari (2018). Biochemical characterisation of alpha amylases isolated from fresh and dried *Cyperus esculentus*: Kinetics and thermodynamics studies. A paper presented at the 3rd National Conference on Environment and Health by the LivingScience Foundation, Ile-Ife, Nigeria on the theme: 'One Health: A multi-sectoral approach to sustainable development'. Venue: Redeemer's University, Ede, Osun State, Nigeria. Date: 16th -17th May, 2018.
- (vii) Maxwell Leadership Training (EQUIP Leadership Development Series) organized by the Directorate of General Studies, Redeemer's University, Ede, Osun State. Venue: Senate Chamber, Redeemer's University, Ede, Nigeria. Date: 13 - 15th September, 2017.
- (viii) The 2nd National Conference on Environment and Health organized by the LivingScience Foundation, Ile-Ife, Nigeria on the theme: 'Managing the Environment to protect our Vulnerable populations'. Venue: Redeemer's University, Ede, Osun State, Nigeria. Date: 4th -5th April, 2017 (Registered Participant).
- (ix) E.O. Egbune, N.J. Tonukari, **O.J. Avwioroko** and O.C. Orororo (2015). Pig feed formulation with fungi degraded cassava peels: effect on body weights and biochemical parameters of pigs. A paper presented at the Delta State University, Abraka, Faculty of Science Conference (DELSUFOS2015) held in June 30th - July 3rd, 2015.
- (x) B.O. Onyeukwu, N.J. Tonukari and **O.J. Avwioroko** (2015). Effect of fermentation on the nutritional, antioxidant and sensory properties of *Raphia hookeri* (raffia) wine and *Hibiscus sabdariffa* (zobo) aqueous extract. A paper presented at the Delta State University, Abraka, Faculty of Science Conference (DELSUFOS2015) held in June 30th - July 3rd, 2015.
- (xi) **O.J. Avwioroko** and N.J. Tonukari (2012). Biochemical characterization of α -amylases isolated from fungi growing on cassava (*Manihot esculenta* Crantz) tubers/cassava product. A paper presented at the Delta State University, Abraka, Faculty of Science Conference (DELSUFOS2012) held in April 30th - May 3rd, 2012.
- (xii) Nigeria Society for Biochemistry and Molecular Biology (NSBMB) Conference held in University of Nigeria, Nsukka, October 1st-4th, 2011.
- (xiii) N.J. Tonukari, U. Uwerhiavwe, **O.J. Avwioroko**, T. Ehwerhemuepha and A.A. Anigboro (2010). Glucose content after acid hydrolysis of cassava, palm kernel, water hyacinth and guinea grass. Nigeria society of Biochemistry and Molecular Biology (NSBMB), 30th Annual Scientific conference, Kebbi State University of Science and Technology, Aliero, Nigeria, October 24-27th, 2010.
- (xiv) The 1st Faculty of Science Conference (FOS2010) held on the theme: 'Investing in Science: Growth and Sustainable Development of Delta State' in June 2010 at the Pre-Degree Auditorium, Campus III, Delta State University, Abraka, Nigeria. (Registered Participant).
- (xv) The 1st Unibadan Biomedical Research Conference held at the International Conference Centre, University of Ibadan, Ibadan, Oyo State, Nigeria in August 2008. (Registered Participant).

R. PUBLICATIONS

1. Books/Chapters in Books
2. Monographs
3. On-line Publications
4. Published Conference Proceedings
5. Articles Published in Learned Journals

Note:

A single asterisk was used for publications which have appeared/been accepted since last promotion or appointment and double asterisk for publications which have appeared/been accepted since last consideration for promotion.

- i. **A.A. Anigboro, **O.J. Avwioroko**, O. Akeghware, and N.J. Tonukari (2021). Anti-obesity, antioxidant and in silico evaluation of *Justicia carnea* bioactive compounds as potential inhibitors of an enzyme linked with obesity: Insights from kinetics, semi-empirical quantum mechanics and molecular docking analysis. *Biophysical Chemistry*, 274: 106607.
- ii. **F.O. Atanu, **O.J. Avwioroko**, O.B. Ilesanmi, and O.E. Yakubu (2021). Metformin Potentiates the Antidiabetic Properties of *Annona muricata* and *Tapinanthus globiferus* Leaf Extracts in Diabetic Rats. *Pharmacognosy Journal*, 13 (3): 614 - 619.
- iii. **A.A. Anigboro, **O.J. Avwioroko**, O.A. Ohwokevwo, B. Pessu, and N.J. Tonukari (2021). Phytochemical profile, antioxidant, α -amylase inhibition, binding interaction and docking studies of *Justicia carnea* bioactive compounds with α -amylase. *Biophysical Chemistry*, 269: 106529.
- iv. **C.A. Otuechere, A. Adewuyi, **O.J. Avwioroko**, E.P. Olajide and B.O. Fadoju (2021). Amine-modified kaolinite clay preserved thyroid function and renal oxidative balance after sub-acute exposure in rats. *Journal of Basic and Clinical Physiology and Pharmacology*, 32(2): 89-96.
- v. ****O.J. Avwioroko**, T.T. Oyetunde, F.O. Atanu, C.A. Otuechere, A.A. Anigboro, O.F. Dairo, A.S. Ejoh, S.O. Ajibade and M.O. Omorogie (2020). Exploring the binding interactions of structurally diverse dichalcogenoimidodiphosphate ligands with α -amylase: Spectroscopic approach coupled with molecular docking. *Biochemistry and Biophysics Reports*, 24: 100837.
- vi. **U. Dennis-Eboh, E. Aganbi, **O.J. Avwioroko**, and N.J. Tonukari (2020). Proximate analysis of commercial starter feeds and effects of their consumption on some blood parameters in broiler chicks. *Nigerian Journal of Science and Environment*, 18 (1): 67 - 76.
- vii. **T.B. Salau, A.K. Atunnise, K.T. Odufuwa, **O.J. Avwioroko**, C.A. Otuechere, O.D. Olukanni and B.A. Salau (2020). Possible Implication of Long Term Sucrose Diet on Integumentary Tissues' Minerals of Male Albino Rats. *Trends in Medical Research*, 15: 7-13.

- viii. ****O.J. Avwioroko**, A.A. Anigboro, F.O. Atanu, C.A. Otuechere, M.O. Alfred, J.N. Abugo and M.O. Omorogie (2020). Investigation of the binding interaction of α -amylase with *Chrysophyllum albidum* seed extract and its silver nanoparticles: a multi-spectroscopic approach. *Chemical Data Collections*, 29: 100517.
- ix. **L.I. Eraga, **O.J. Avwioroko**, E. Aganbi, A.A. Anigboro, C. Obih, G.N. Ude and N.J. Tonukari (2020). Isolation, identification and *in silico* analysis of bitter leaves (*Vernonia amygdalina*) ribulose-1, 5-bisphosphate carboxylase/oxygenase gene. *Gene Reports*, 20: 100720.
- x. **A.A. Anigboro, **O.J. Avwioroko** and C.O. Cholu (2020). Phytochemical Constituents, Antimalarial Efficacy, and Protective Effect of *Eucalyptus camaldulensis* Aqueous Leaf Extract in *Plasmodium berghei*-Infected Mice. *Preventive Nutrition and Food Science*, 25(1): 58–64.
- xi. **C.A. Otuechere, A. Adewuyi, T. Oluwabayo, F. Afolayan, **O. Avwioroko**, and U. Abazuh (2020). Salubrious effects of a vermiculite–cellulose-based bionanocomposite on oxidative stress indices and histomorphology of male Wistar rats. *Andrologia*, 52 (1): e13426.
- xii. **C.A. Otuechere, **O.J. Avwioroko**, S. Tinuala, S. Fayemi, and B.A. Salau (2020). Oral Supplementation of Coconut Oil Attenuates Propanil-induced Oxidative Stress in the Testes of Rats. *Asian Journal of Biological Sciences*, 13 (1): 70-76.
- xiii. **A.A. Anigboro, **O.J. Avwioroko**, O.A. Ohwokevw, and B. Pessu (2019). Bioactive components of *Ficus exasperata*, *Moringa oleifera* and *Jatropha tanjorensis* leaf extracts and evaluation of their antioxidant properties. *EurAsian Journal of BioSciences*, 13 (2): 1763-1769.
- xiv. ****O.J. Avwioroko**, A.A. Anigboro, A.S. Ejoh, F.O. Atanu, M.A. Okeke, and N.J. Tonukari (2019). Characterization of α -amylases isolated from *Cyperus esculentus* seeds (tigernut): Biochemical features, kinetics and thermal inactivation thermodynamics. *Biocatalysis and Agricultural Biotechnology*, 21, 101298.
- xv. **F.O. Atanu, **O.J. Avwioroko**, O.B. Ilesanmi and M. Oguche (2019). Comparative study of the effects of *Annona muricata* and *Tapinanthus globiferus* extracts on biochemical indices of diabetic rats. *Pharmacognosy Journal*, 11 (6): 1365-1370.
- xvi. *A.A. Anigboro, **O.J. Avwioroko** and N.J. Tonukari (2018). *Brillantasia patula* aqueous leaf extract averts hyperglycemia, lipid peroxidation, and alterations in hematological parameters in alloxan-induced diabetic rats. *International Journal of Biomedical Science and Engineering*, 6(2):43-51.
- xvii. ***O.J. Avwioroko**, A.A. Anigboro, N.N. Unachukwu and N.J. Tonukari (2018). Isolation, identification and *in silico* analysis of alpha-amylase gene of *Aspergillus niger* strain CSA35 obtained from cassava undergoing spoilage. *Biochemistry and Biophysics Reports*, 14:35-42.

- xviii. *F.O. Atanu, **O.J. Avwioroko**, and S. Momoh (2018). Anti-diabetic effect of combined treatment with Aloe vera gel and metformin on alloxan-induced diabetic rats. *Journal of Ayurvedic and Herbal Medicine*, 4(1):1-5.
- xix. *A.A. Anigboro, **O.J. Avwioroko**, O.A. Ohwokevw, and J.N. Nzor (2018). Phytochemical constituents, antidiabetic and ameliorative effects of *Polyalthia longifolia* leaf extract in alloxan-induced diabetic rats. *Journal of Applied Science and Environmental Management*, 22(6):993 –998.
- xx. *E. Aganbi, O. B. Onyeukwu, **O. J. Avwioroko** and N. J. Tonukari (2017). Effect of fermentation on sensory, nutritional and antioxidant properties of mixtures of aqueous extracts of *Hibiscus sabdariffa* (Zobo) and *Raphia hookeri* (Raffia) wine. *Nigerian Journal of Science and Environment*, 15(1): 66 - 74.
- xxi. *N. J. Tonukari, E. E. Oliseneku, **O. J. Avwioroko**, E. Aganbi, O.C. Orororo and A. A. Anigboro (2016). A novel pig feed formulation containing *Aspergillus niger* CSA35 pretreated-cassava peels and its effect on growth and selected biochemical parameters of pigs. *African Journal of Biotechnology*, 15(19): 776-785.
- xxii. ***O. J. Avwioroko**, A. A. Anigboro and N. J. Tonukari (2016). Biotechnological application of cassava-degrading fungal (CDF) amylase in broiler feed formulation. *British Biotechnology Journal*, 10(1): 1-12.
- xxiii. *E. Aganbi, **O. J. Avwioroko**, E.R. Enabulele, J.O. Osagu, C.K. Uwandu, A. Ike, A. Akpede, P. Eferusua (2015). Amelioration of lead-induced toxicity in blood, liver and kidney tissues of male wistar rats by fermented Ofada rice. *Turkish Journal of Agriculture - Food Science and Technology*, 3(9): 754-759.
- xxiv. *N. J. Tonukari, **O. J. Avwioroko**, and A. A. Anigboro (2015). Effect of preservation on the chlorophyll content, phytochemicals, and antioxidant capacity of two different varieties of pumpkin (*Telfairia occidentalis*) leaves. *Nigerian Journal of Technological Research*, 10 (1): 9-16.
- xxv. *N. J. Tonukari, T. Ezedom, C. C. Enuma, S. O. Sakpa, **O. J. Avwioroko**, L. Eraga, and E. Odiyoma (2015). White Gold: Cassava as an Industrial Base. *American Journal of Plant Sciences*, 6: 972-979.
- xxvi. *N. J. Tonukari, **O. J. Avwioroko**, T. Ezedom, and A. A. Anigboro (2015). Effect of preservation on two different varieties of *Vernonia amygdalina* Del. (bitter) leaves. *Food and Nutrition Sciences*, 6: 633-642.
- xxvii. ***O. J. Avwioroko**, N. J. Tonukari, and S. O. Asagba (2015). Biochemical characterization of crude α -amylase of *Aspergillus* spp. associated with the spoilage of cassava (*Manihot esculenta*) tubers and processed products in Nigeria. *Advances in Biochemistry*, 3(1): 15-23.
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6. Patents

7. Production of Original Technological Tools

8. Technical Reports

9. Short Notes to the Editor and Book Review

R. THREE REFEREES

1. PROF. N.J. TONUARI

Professor of Biochemistry and Molecular Biology, and Dean,
Faculty of Science,
Delta State University,
Abraka, Nigeria.
Contact: 07034709653. Email: tonukari@gmail.com

2. DR. A. A. ANIGBORO
Senior Lecturer,
Department of Biochemistry,
Faculty of Science,
Delta State University,
Abraka, Nigeria.
Contact: 08034230386. Email: akposanigboro@yahoo.co.uk

3. PST. PATRICK ADIE
Minister-in-charge,
Redeemed Christian Church of God,
Bethel Place Parish,
Ededimeji-Ede,
Ede South LGA, Osun State.
Contact: 08034784311.



Signature

July 2nd, 2021.

Date