

CURRICULUM VITAE

- I. (a) Name: Bose Etaniamhe ORIMADEGUN
(b) Department: Chemical Pathology
(c) Faculty: Basic Medical Sciences
- II. (a) First Academic Appointment: Lecturer II
(b) Present Post (with date): Senior Lecturer (October, 2020)
(c) Date of Last Promotion: October, 2020
(d) Date Last Considered (in cases where promotion was not through:
Not Applicable
- III. University Education (with date):
University of Ibadan, Ibadan, Nigeria 1992-1997
University of Ibadan, Ibadan, Nigeria 2000-2002
University of Ibadan, Ibadan, Nigeria 2005-2013
- IV. Academic Qualifications (with dates and granting bodies):
a) B.Sc. Biochemistry, University of Ibadan 1997
b) M.Sc. Chemical Pathology, University of Ibadan 2002
c) PhD. Chemical Pathology, University of Ibadan 2013
- V. Professional Qualification and Diploma (with dates and granting bodies):
Not Applicable
- VI. Scholarships, Fellowships and Prizes (with dates) in respect of Undergraduate and Postgraduate work only:
i) Thomas Bassir Biomedical Foundation (TBBF) Seed Grant 2015
ii) Global Health Travel Award 2017
iii) TETFUND Research Project Intervention grant 2017
iv) University of Ibadan Medical Education Partnership Initiative
Junior Faculty Research Training Programme (UI-MEPI-J) Award 2017
v) Global Health Travel Award 2019
- VII. Honours, Distinctions and Membership of Learned Societies:
Member, Association of Clinical Chemists of Nigeria (ACCN)

Member, International Federation of Clinical Chemists (IFCC)

VIII. Details of Teaching Experience at University Level:

- Lecturer, Department of Chemical Pathology, College of Medicine, University of Ibadan, Ibadan 2014 – Till date

a) Undergraduate Courses Taught as Lecturer II at University of Ibadan

i) *Biomedical Laboratory Science (BMLS)*

Course Code	Course title/Topic
CPY 301	Basic Clinical Chemistry
CPY 401	Analytical Techniques in Clinical Chemistry
CPY 403	Clinical Enzymology
CPY 501	Carbohydrate, Protein and Lipid Metabolism
CPY 502	Systemic in Clinical Chemistry
CPY 507	Analytical Techniques in Clinical Chemistry
CPY 509	Project

ii) MBBS/BDS *courses in Chemical Pathology*

- Micro-nutrition – an overview
- Investigating Inherited Metabolic Disorders
- Nutrition, Vitamins and Trace Elements
- Dyslipidemia
- Clinical Enzymology
- Practicals – Urinalysis and Point-of-Care (Portable glucometer)

b) Postgraduate Courses Taught at University of Ibadan

<i>Course Code</i>	<i>Course title</i>
CPY 701	Introductory Chemical Pathology
CPY 702	Clinical Enzymology
CPY 703	Chemical Pathology Laboratory Methods/Seminars
CPY 705	Chemical Pathology Seminars
CPY 711	Nutrition and Metabolism
CPY 741	Projects

c) *Undergraduate Project Supervision:*

I have supervised 3 BMLS students and Co-supervised 2 BMLS students.

Postgraduate Project Supervision:

I have co-supervised 2 MSc students. I am currently supervising 3 MSc students.

d) *Community Services:*

- i) Member of the Local Organising Committee, the 10th year memorial lecture of late Professor L.S. Salimonu. Topic: The Changing Faces of Immunology in Health Care Delivery: Prof. L.S. Salimonu's Legacy, September 2014 at the Osuntokun Auditorium, College of Medicine, University of Ibadan.
- ii) Member of the organising committee of the Department of Chemical Pathology Toxicology Workshop. Topic: Maiden Course in Basic and Clinical Toxicology, 16 – 21 August, 2015 at IAMRAT Conference Room, College of Medicine, University of Ibadan, Ibadan.
- iii) Secretary of the organising committee for the symposium and book launch in honour of Professor Emerita Grace O.L. Olaniyan-Taylor at her 80th birthday celebration. Topic: Cardiovascular Disease and Nutrition in Developing Countries, 19 April, 2017 at the Trenchard Hall, University of Ibadan.
- iv) Secretary of the organising committee for the symposium in honour of Prof E.O. Agbedana after 45 years of meritorious service. June 25, 2018 at Paul Hendrickse Lecture Theatre, College of Medicine, University of Ibadan.
- v) Faculty Representative, Organization for Women in Science for the Developing World (OWSD), Ibadan branch.

e) *Administrative Posts in the Department of Chemical Pathology*

- i. Member of the organising committee and Rapporteur at the 4th Unibadan Biomedical Conference, July 2014.
- ii. Member, Departmental Finance Committee 2015-to date
- iii. Member of the organising committee and Rapporteur at the 5th Unibadan Biomedical Conference July 2016
- iv. Congregational representative on Senate, University of Ibadan 2016-2018
- v. Member of the organising committee and Rapporteur at the 6th Unibadan Biomedical Conference July 2018
- vi. Rapporteur at the AFREHealth International Conference, Lagos, August 2019.

IX. Research:

(a) Completed: 2014 – to date

I have participated and completed the under-listed research. Some were carried out individually while others were done in collaboration with colleagues within and outside Nigeria.

- (i) Serum Apolipoprotein-A1 and Cholesterol Levels in Nigerian Children with Plasmodium falciparum Malaria.

- (ii) Markers of Oxidative Stress and Vitamin E Levels in Young Female Adults with Dysmenorrhea - A Pilot Study partly funded by a seed grant from Thomas-Bassir Biomedical Foundation (TBBF).

(b) In Progress:

- i. The research titled ‘Predictive values of lipid peroxidation markers and micronutrient levels in mid-pregnancy for new-borns’ maturity and birthweight’ funded by TetFund. The main aim of this research is to investigate the status of oxidative stress in pregnant women and relate it to maturity and birth weight of their neonates. The research is near completion. Ethical approval was obtained from UI/UCH Ethical committee. Selection of participants and sample collection have been completed. The follow-up samples have been collected and stored at the appropriate temperature. The laboratory analysis of samples has commenced. Analysis of data will be done after and manuscript will be written for publication.

- ii. The research titled ‘Relationships among Apolipoprotein A1 Gene Polymorphisms, Lipid Levels and Human Gene Expression in Malaria Infections’. The research is carried out to prospectively investigate the relationship among polymorphism in apolipoprotein A1 (apo A1) gene, lipids levels, immune-modulatory genes and malaria in a cohort of Nigerian children in a planned research. The enrolment of participants and sample collection for this research have been completed. Laboratory analysis has been done; biochemical parameters have been measured. DNA has been extracted from the samples. The next stage is to do the RFLP for the Apo A1 gene.

Thereafter, analyse the data and write the manuscript. Part of the work has been published.

(c) Project, Dissertation and Thesis

i. Undergraduate (Bachelor of Science in Biochemistry):

BSc: Distribution of soluble protein and polyphenol oxidase in cotyledons of germinating Pigeon pea (*Cajanus cajan*) 1997

ii. Postgraduate (Master of Science in Chemical Pathology):

MSc: Serum iron and other risk factors for coronary heart disease in Nigerians. 2002

iii. Postgraduate (Doctor of Philosophy in Chemical Pathology):

PhD: Effects of vitamin supplementation on plasma homocysteine and apolipoprotein A1 levels in children with nephrotic syndrome in Ibadan, Nigeria 2013

X. Publications:

(a) Books already published: Nil

(b) Chapters in Books already published:

1. **Orimadegun B. E.** (2017). Lipid Metabolism in Malaria and Human Immunodeficiency Virus (HIV) Infections. In: Agbedana E.O, Anetor J.I, Ogundahunsi O.A (ed) *Recent Advances in Nutrition and Metabolism*. Ibadan University Press, University of Ibadan Chapter 10, pp 123-133. ISBN: 978-978-54045-1-7. 208 pages.

(c) Articles that have appeared in Referred Conference Proceedings: Nil

(d) Patents: Nil

(e) Articles that have appeared in learned journals:

2. **Orimadegun BE,** Anetor JI, Adedapo DA, Taylor GO, Onuegbu JA, Olisekodiaka JM. (2007). Increased Serum Iron associated with Coronary Heart Disease among Nigerian Adults. *Pakistan Journal of Medical Science* Vol. 23. No. 4: 518-522.

3. **Orimadegun BE**, Anetor JI, Adedapo DA, Taylor GO, Onuegbu JA, Olisekodiaka JM. (2011). Interrelationship of Serum Iron and Plasma Lipids in Adult Yorubas of the South-Western Nigeria with Coronary Heart Disease. *Journal of Advancement in Medical and Pharmaceutical Science* Vol. 5. No. 1: 22 – 25.
4. Orimadegun AE, **Orimadegun BE**, Adepoju AA. (2013). Immunity against tetanus infection, risk factors for non-protection and validation of a rapid immunotest kit among hospitalised children in Nigeria. *Frontiers in Neurology* Vol. 4. No. 142: 1-7.
5. Orimadegun AE, Ogunbosi BO, and **Orimadegun BE**. (2014). Hypoxaemia predicts death from severe falciparum malaria among children under 5 years of age in Nigeria: the need for pulse oximetry in case management. *African Health Sciences* Vol. 14. No. 2: 397 – 407.
6. **Orimadegun B. E.**, Orimadegun A. E., Ademola A. D., Agbedana E. O. (2014). Plasma homocysteine and B vitamins levels in Nigerian children with nephrotic syndrome. *The Pan African Medical Journal* Vol. 18. No. 107: doi:10.11604/pamj.2014.18.107.3678.
7. Orimadegun A.E. and **Orimadegun B.E.** (2015). Serum Apolipoprotein-A1 and Cholesterol levels in Nigerian Children with Plasmodium falciparum Infection. *Medical Principles and Practice* Vol. 24. No. 4: 318-324.
8. Orimadegun, A. E., **Orimadegun, B. E.** and Bamgboye, E. A. (2017). Non-protective immunity against tetanus in primiparous women and newborns at birth in rural and urban settings in Ibadan, Nigeria. *Pan African Medical Journal* Vol. 27 (Supp 3) No. 26, 1-6.
9. Orimadegun, A.E., **Orimadegun, B.E.** and Bamgboye, E.A. (2018). Short-term Persistence of Protective Maternally Acquired Immunity in Neonates Delivered by Primiparous Women in Ibadan, Nigeria. *Ethiopian Journal of Health Sciences* Vol. 28 No. 5, 447-456.
10. **Orimadegun, B.**, Bolajoko, E., Onyeaghala, A. and Ademola-Aremu, O. (2018). Quantitative analyses of phytochemical and trace elements contents

of daily detox, herbal tea consumed in Nigeria. *Journal of Medicinal Plants Research* Vol. 12 No. 20, 289-295.

11. **Orimadegun, B.E.**, Awolude, O.A. and Agbedana, E.O. (2019). Markers of lipid and protein peroxidation among Nigerian university students with dysmenorrhea. *Nigerian Journal of Clinical Practice* Vol. 22 No. 2, 174-180.
12. Obilor, U., Charles-Davies, M.A., Okolo. S.U., Bolajoko, E.B., **Orimadegun, B.E.** and Ademola-Aremu O.O. (2019). Factor of sexual function in males occupationally exposed to bisphenol-A in a plastic industry in Ibadan. *African Journal of Medicine and Medical Science* Vol. 48 No. 3, 389-400.
13. Ogunbona, R.A., **Orimadegun, B.E.**, Ogunlade, S.O., Fasanmade, A.A. and Agbedana, E.O. (2020). Dyslipidemia and High Adiposity are Risk Factors for Osteoarthritis in Adults in Nigeria. *American Journal of Biomedical Research* Vol 8 No 1, 19-24.
14. **Orimadegun B. E.**, Odaibo G. O., Orimadegun A. E., Agbedana E. O. and Falade C. O. (2021). Malaria parasite density and plasma apolipoprotein A1 in symptomatic and asymptomatic infections. *Journal of Vector Borne Diseases* Vol 58 N0 4, 311-316
15. **Orimadegun BE**, Ogah F, Oyedele OB, Daodu OO (2021). Plasma Low-Density Lipoprotein Cholesterol Estimated by Friedewald Compared to Martin-Hopkins Equation in Nigerian Population. *West African Journal of Medicine*. Vol 38(3):255-261.
16. **Orimadegun, B. E.**, (2021), 'Dyslipidaemia in African Children and Adolescents', in W. S. Aronow (ed.), Management of Dyslipidemia, IntechOpen, London. 10.5772/intechopen.96804.
17. Anetor JI, Adigun TO, Bolajoko EB, Anetor GO, **Orimadegun BE**, Akiibinu MO, et al. (2022). Deranged haemibiosynthetic pathway in gasoline dispensers in Nigeria: Implications for risk of myeloproliferative disorders and chemoprevention. *American Journal of Biopharmacy and Pharmaceutical Sciences*; 2:2.

(f) Books, Chapters in Books and Articles already accepted for publication:

(g) Technical Reports and Monographs: Nil

XI. Major Conferences Attended with Papers Read (in the last 5 years):

- i. 2011: 6th Biennial Conference of the International Federation of Clinical Chemistry (IFCC), 28th -30th September, 2011 at the Kenya Institute of Education (K.I.E) Nairobi, Kenya. Future Challenges in Clinical Chemistry and Automation in Sub-Saharan Africa.
Paper read: Plasma Homocysteine and B Vitamins Levels in Nigerian Children with Nephrotic Syndrome
- ii. 2011: '*Course in Laboratory Quality Management*', International Federation of Clinical Chemistry and Laboratory Medicine at Kenya Institute of Education, Nairobi, Kenya, 26th – 27th September, 2011.
- iii. 2012: 3rd UNIBADAN Conference of Biomedical Research on Biotechnology for Health and Sustainable Development, 24 – 27 July, 2012 at the Conference Centre University of Ibadan, Ibadan.
- iv. 2013: Laboratory Medicine Congress 2013, 'Serving Science at the Table', 29 – 31 July, 2013 at Capetown International Convention Centre, Cape Town, South Africa.
- v. 2014: 4th UNIBADAN Conference of Biomedical Research on Biotechnology for Health and Sustainable Development, 1 – 4 July, 2014 at the Trenchard Hall, University of Ibadan, Ibadan.
- vi. 2014: UNIPATH 2014 CONGRESS, 'Unifying Pathology and Laboratory Medicine in the Era of P4 Medicine' 19 – 21 September, 2014 at CSIR Convention Centre, Pretoria, South Africa.
Paper Read: Serum Apolipoprotein-A1 and Cholesterol Levels in Nigerian Children with Plasmodium falciparum Malaria
- vii. 2016: 5th UNIBADAN Conference of Biomedical Research on Biotechnology for Health and Sustainable Development, 13– 15 July, 2016 at the Conference Centre, University of Ibadan, Ibadan.

- viii. Keystone Symposia, ‘Malaria: From Innovation to Eradication’, February 19 – 23, 2017 at Speke Conference Centre, Kampala, Uganda.
- ix. UI-MEPI-J Short term training at Harvard University of Public Health, Boston sponsored by NIH Fogarty International (D43TW010140) USA, November 7 to December 28, 2017.
- x. 6th UNIBADAN Conference of Biomedical Research on Biomedical Science for Sustainable Health, 10-14 July, 2018 at the Conference Centre, University of Ibadan, Ibadan.

Paper Read: Markers of Lipid and Protein Peroxidation among Nigerian University Students with Dysmenorrhea

- xi. Association of Clinical Chemists of Nigeria and African Federation of Clinical Chemistry Conference, “Evidence-Based Clinical & Laboratory Diagnostics: Effective Use of Novel Biomarkers and Challenges in Developing Countries, 15-19 October, 2018 at the Nnamdi Azikiwe University Awka.
- xii. 3rd AFRICAN FORUM FOR RESEARCH AND EDUCATION IN HEALTH (AFREHealth) Symposia. “Strengthening Health Research, Education and Service Delivery for Achieving the Sustainable Development Goals (SDGs) in Africa”, August 2 to 10, 2019 at the Lagos Continental Hotel, Victoria Island, Lagos, Nigeria.

Paper Read: Effect of the Level of Parasite Density on Plasma Apolipoprotein A1 in Symptomatic and Asymptomatic Infections

- i. Keystone Symposia, ‘Malaria: From Innovation to Eradication’, October 30 – November 2, 2019 at the Hilton Addis Ababa, Addis Ababa, Ethiopia.

Paper Read: Effect of the Degree of Malaria Parasitaemia on Plasma Apolipoprotein A1 in Symptomatic and Asymptomatic Infections.

- (f) Books, Chapters in Books and Articles already accepted for publication: Nil
- (g) Technical Reports and Monographs: Nil