#### CURRICULUM VITAE FORMAT FOR ACADEMIC STAFF OF THE UNIVERSITY

Δ	Pers	nnal	Data
<i>H</i>	1 613	UHAI	IJALA

1. Full Name (Surname first): ADEYOMOYE Olorunsola Israel

2. Date of Birth: 18<sup>th</sup> June 1987

3. Details of Contact Address: Department of Physiology,

University of Medical Sciences,

Ondo City, Nigeria.

(a) E-mail address (es): oadeyomoye@unimed.edu.ng

(b) Mobile Phone Number(s): 08038701628

4. Nationality Nigeria

5. State of Origin Ondo

6. Senatorial District: Ondo South

7. Local Government Area Ile-Oluji Okeigbo

8. Permanent Home Address 23, Aroromakinde Street, Off-

Arulogun Road, Ojoo, Ibadan.

9. Marital Status Married

10. Number of Children and their Ages 3

11. Next of Kin Adeyomoye Temitope Ehindero

12. Details of Contact Address of Next of Kin: 23, Aroromakinde Street, Off-

Arulogun Road, Ojoo, Ibadan.

(a) E-mail address (es) temitopeehindero20@yahoo.com

(b) Mobile Phone Number(s): 07062651997

13. Date of Assumption of Duty 15<sup>th</sup> October, 2015

14. Rank/status on First Appointment Assistant Lecturer

15. Present Status: Lecturer I

16. Date of Last Promotion: 1st October, 2022

17. Present Salary, Grade Level and Step: CONUASS 04 Step 1

18. Date of Confirmation of Appointment 15<sup>th</sup> October, 2018

19. Faculty/Directorate: Basic Medical Sciences

20. Department/Unit:

Physiology

## **B.** Educational Background

1. Higher Educational Institutions Attended with Dates:

University of Ibadan 2007 - 2010

University of Ibadan 2012 - 2014

University of Ibadan 2015 - 2021

2. Academic/Professional Qualifications and Distinctions Obtained with Dates:

B.Sc Physiology October, 2010 M.Sc Physiology February, 2014 Ph.D. Physiology May, 2021

- 3. Other Distinctions and Awards with Dates:
  - (a) Scholarship
  - (b) Fellowship

## Postdoctoral Research Fellowship

Division of Cardiovascular Sciences, School of Medical Sciences, Core Technology Facility, Faculty of Biology, Medicine & Health, University of Manchester 2023-2024

**Research**: Impact of acute phenanthrene exposure on vascular tone.

Principal Investigator: Professor Holly Shiels

Co-PI: Dr Sophie Saxton

## **Skill Acquired**

- Performed microdissection using Leica microscope
- Prepared PSS and KPSS solution
- Prepared serial dilutions of Noradrenaline and Acetylcholine
- Isolated resistance mesenteric arteries
- Harvested perivascular adipose tissue for adipokines profiling
- Mounted resistance arteries on myograph chambers
- Performed vascular experiments using the myograph system and LabChart software
- Analyzed myograph data using LabChart Reader, Microsoft Excel, and Graphpadprism 10.2.3

#### (b) Research Grants

Research England International Science Partnership Funds for Overseas Development Assistance (ODA) (£11,000) University of Manchester

- (d) National Awards
- (e) International awards

#### C. Work Experience with Dates

1. Previous Work Experience Outside the University System with Dates:

#### Research Associate

Centre for Control and Prevention of Zoonosis, Faculty of Veterinary Public Health and Preventive Medicine, University of Ibadan, Nigeria. (2014 – 2015).

# **Physiology Lecturer**

ECWA College of Health Sciences, Kaduna, Nigeria (2011 - 2012)

2. Previous Work Experience in Other Universities

#### Post doctoral Research Fellow

2023-2024

Division of Cardiovascular Sciences, Faculty of Biology, Medicine & Health, University of Manchester, United Kingdom

3. Work Experience in University of Medical Sciences, Ondo

Assistant Lecturer2015 - 2019Lecturer II2019 - 2022Lecturer I2022 - Till date

- 4. Courses Taught Within the Current Academic Session
  - 1. Respiratory Physiology
  - 2. Endocrinology and Metabolism
  - 3. Exercise Physiology
  - 4. Applied and Environmental Physiology
  - 5. Cardiopulmonary Physiology
  - 6. Literature Review
  - 7. Membrane Physiology
- 5. Graduate Student Supervision Within Current Session
- 6. Current Undergraduate Supervision.

Supervised four (4) Undergraduate students within the current session

## D. Membership of Professional Bodies

The Physiological Society, United Kingdom Full Member/Society Representative

Genetic Society of America (GSA) Full member

Africa Science Network Full member

# E. Publications:

	1. Dissertation or thesis
	Adeyomoye O.I. Antidiabetic effects of the Leaf extract of <i>Parquetina nigrescens</i> , Phytol and Squalene in alloxan induced diabetes in male Wistar Rats, PhD Thesis. University of Ibadan, Oyo State, Nigeria.
	2. Published Journals Articles
1.	Olasehinde Adewale, Omoboyowa Damilola, Okoronkwo C.O, <b>Adeyomoye O.I</b> 2012: Screening for cyanide in selected food stuffs and its possible effects on the level of vitamin B complex in the food samples, <i>Journal of Research in Environmental Science and Toxicology</i> Vol. (6) pp. 137-142.
2.	Adeyomoye O.I, Ige Abayomi, Omoboyowa Damilola Alex, 2012:Gastrointestinal Handling of Glucose in Rats Treated with Methanol Extract of <i>Musa sapientum</i> Leaves, <i>International Journal of Innovation in Medical Science Research</i> Vol. (2) pp.65-73
3.	Ademiju Peter Oluwaduyilemi, <b>Adeyomoye Olorunsola Israel</b> , Omoboyowa Damilola Alex, Olurotimi Ajayi John 2012: Effect of Cadmium chloride on the healing of acetic acid induced ulcer in wistar rats; <i>Global Advanced Research Journal of Medicine and Medical Sciences</i> , ISSN 2315-5159
4.	Adewoye E.O, <b>Adeyomoye O.I</b> , Ige A.O. 2015: Effect of iron on pancreatic beta cell function and insulin resistance in female albino rats, <i>J. Afr. Ass. Physiol. Sci. 3</i> (2): 88 – 93.
5.	Ige A.O, <b>Adeyomoye O.I</b> , Adewoye E.O, 2015: Impact of oral magnesium on haematology, biochemical profile and liver glycogen in rats, <i>Arch. Bas. App. Med.</i> 3: 65-70.
6.	<b>Adeyomoye O.I</b> , Adeola W.F. 2017: Glycemic control and electrolyte changes in diabetic rats treated with pioglitazone, <i>Research Journal of Pharmacology and Pharmacology</i> 2017; 1:6 pp 1-8
7.	<b>Adeyomoye O.I,</b> Adeleye A.S. 2017: kidney functions in wistar rats treated wth artesunate and amodiaquine <i>Int J Med Lab Res</i> , 2(3):33-37
8.	<b>Adeyomoye O.I.</b> , Adewoye E.O., 2018: Preliminary assessement and antioxidative properties of Methanol extract of <i>Parquetina nigrescens</i> in alloxan induced diabetic rats, <i>Asian Journal of Research in Medical and Pharmeceutical Sciences</i> , 3(4): 1-10.
9.	<b>Adeyomoye O.I.</b> , Adewoye E.O., 2018: Phytol reduces oxidative stress and cyclooxygenase-2 expression in kidney of diabetic wistar rats, <i>Recent Advances in Biology and Medicine</i> , Vol 4, Pg 16-19
10.	Adeyomoye O.I, Adewumi N.A., 2019: Lead exposure causes alteration of haematological indices in adult female Wistar rats, <i>Asian journal of Pharmaceutical and Development</i> 7(6): 30-34
11.	<b>Adeyomoye O.I</b> and Adegbite OS. (2020). Lactate and nitric oxide regulations in male Wistar rats exposed to lead. <i>World Journal of Advanced Research and Reviews</i> , 7(2), 01-06.
12.	Akintayo, C. O., Johnson, A. D., Badejogbin, O. C., Olaniyi, K. S., Oniyide, A. A., Ajadi, I. O., Ojewale, A. O., <b>Adeyomoye, O.I.</b> , & Kayode, A. B. (2021). High

	fructose-enriched diet synergistically exacerbates endocrine but not metabolic	
	changes in letrozole-induced polycystic ovarian syndrome in Wistar	
13.	rats. <i>Heliyon</i> , 7(1), e05890. <a href="https://doi.org/10.1016/j.heliyon.2020.e05890">https://doi.org/10.1016/j.heliyon.2020.e05890</a> Olaniyan OT, Adetunji CO, Okotie GE, <b>Adeyomoye O</b> , Anani OA, Mali PC.	
13.	Impact of COVID-19 on assisted reproductive technologies and its multifacet	
	influence on global bioeconomy. J Reprod Healthc Med 2021;2(Suppl_1):S92-	
	S104.	
14.	Adeyomoye O.I, Olaniyan OT, Adewumi N, Anyakudo MM. (2022) Honey	
	supplemented with vitamin C prevents dyslipidemia and oxidative stress induced by	
	exposure to lead acetate in Wistar rats. Indian J Physiol Pharmacol. 65(4):229-36	
15.	Magnus Michael Chukwudike Anyakudo, Naomi Tinuola. Omogbehin, Olorunsola	
	Israel. Adeyomoye (2022) Beneficial Impacts of Solanum aethiopicum L. in	
	Diabetes Control. <i>International Journal of Nutrition</i> - 7(1):30-40.	
16.	Adeyomoye, O. I., Akintayo, C. O., Omotuyi, K. P., & Adewumi, A. N. (2022).	
	The biological roles of urea: A review of preclinical studies. <i>Indian Journal of</i>	
	Nephrology, 32(6), 539.	
17	Adetunji, J. B., Adebisi, O. A., <b>Adeyomoye, I. O.</b> , Oyeleye, S. I., Adebayo, D. O.,	
	& Ejidike, I. P. (2023). Hibiscus sabdariffa fractions attenuate oxidative stress and	
	some cardiac biomarkers in sodium fluoride (NaF)-induced cardiotoxicity	
18	rat. Journal of Taibah University for Science, 17(1), 2202164.  Adeyomoye, O.I., Adetunji, J.B., Olaniyan, O.T., Adetunji, C.O., Oluwafemi, D.Y.	
10	(2024) TGR5, GLP-1, and GIP Expression in Diabetic Wistar Rats in Response to	
	Ficus exasperata Vahl LeafExtract. Phytomedicine Plus	
	Tieus exusperuiu vani Bearbadaet. Triyiomeutette Tius	
	3. Contribution to books (Books Chapters)	
19	Charles Oluwaseun Adetunji, Olugbemi Tope Olaniyan, Olorunsola Adeyomoye,	
	Ayobami Dare, Mayowa J. Adeniyi, Enoch Alex, Maksim Rebezov, Ekaterina	
	Petukhova, and Mohammad Ali Shariati (2022) Smart Sensing for COVID-19	
	Pandemic. Springer Nature. <a href="https://doi.org/10.1007/978-3-030-79753-9_9">https://doi.org/10.1007/978-3-030-79753-9_9</a>	
20	Charles Oluwaseun Adetunji, Olugbemi Tope Olaniyan, Olorunsola Adeyomoye,	
	Ayobami Dare, Mayowa J. Adeniyi, Enoch Alex, Maksim Rebezov, Ekaterina	
	Petukhova, and Mohammad Ali Shariati (2022) Internet of Health Things (IoHT)	
21	for COVID-19. Springer Nature. <a href="https://doi.org/10.1007/978-3-030-79753-9">https://doi.org/10.1007/978-3-030-79753-9</a> 5 Charles Oluwaseun Adetunji, Olugbemi Tope Olaniyan, <b>Olorunsola Adeyomoye</b> ,	
21	Ayobami Dare, Mayowa J. Adeniyi, Enoch Alex, Maksim Rebezov, Ekaterina	
	Petukhova, and Mohammad Ali Shariati (2022) eHealth, mHealth, and	
	Telemedicine for COVID-19 Pandemic. Springer Nature.	
	https://doi.org/10.1007/978-3-030-79753-9 10	
22	Charles Oluwaseun Adetunji, Olugbemi Tope Olaniyan, Olorunsola Adeyomoye,	
	Ayobami Dare, Mayowa J. Adeniyi, Enoch Alex, Maksim Rebezov, Ekaterina	
	Petukhova, and Mohammad Ali Shariati (2022) Diverse Techniques Applied for	
	Effective Diagnosis of COVID-19. Springer Nature. <a href="https://doi.org/10.1007/978-3-">https://doi.org/10.1007/978-3-</a>	
22	030-79753-9_3	
23	Charles Oluwaseun Adetunji, Olugbemi Tope Olaniyan, <b>Olorunsola Adeyomoye</b> ,	
	Ayobami Dare, Mayowa J. Adeniyi, Enoch Alex, Maksim Rebezov, Ekaterina  Patukhaya, and Mahammad Ali Shariati (2022) Mashina Learning Approaches for	
	Petukhova, and Mohammad Ali Shariati (2022) Machine Learning Approaches for COVID-19 Pandemic. Springer Nature. <a href="https://doi.org/10.1007/978-3-030-79753-">https://doi.org/10.1007/978-3-030-79753-</a>	
	9 8	
24	Olaniyan, O. T., Adetunji, C. O., Adeyomoye, O., Dare, A., Adeniyi, M. J., &	
	Enoch, A. (2023). Computational methods for translational brain-behavior analysis.	
	In Artificial Intelligence for Neurological Disorders (pp. 131-143). Academic Press	
	(Elsevier).	

25	Olugbemi Olaniyan, Charles Adetunji, <b>Olorunsola Adeyomoye</b> , Ayobami Dare, Mayowa J. Adeniyi, Alex Enoch (2022). Clinical applications of deep learning in
	neurology and its enhancements with future directions. Elsevier. doi: 10.1016/B978-0-323-90277-9.00026-2.
26	Olugbemi Olaniyan, Charles Adetunji, Olorunsola Adeyomoye, Olorunsola
	Adeyomoye, Mayowa J. Adeniyi, Alex Enoch (2022). Ensemble sparse intelligent
	mining techniques for cognitive disease. Elsevier. doi: 10.1016/B978-0-323-90277-9.00027-4.
27	Olugbemi Olaniyan, Charles Adetunji, <b>Olorunsola Adeyomoye</b> , Ayobami Dare,
	Mayowa J. Adeniyi, Alex Enoch (2022). Cognitive therapy for brain diseases using
	deep learning models. Elsevier. doi: 10.1016/B978-0-323-90277-9.00017-1.
28	Olugbemi Olaniyan, Charles Adetunji, <b>Olorunsola Adeyomoye</b> , Ayobami Dare,
	Mayowa J. Adeniyi, Alex Enoch (2022). Cognitive therapy for brain diseases using
29	artificial intelligence models. Elsevier. doi: 10.1016/B978-0-323-90277-9.00013-4.  Olugbemi Olaniyan, Charles Adetunji, Ayobami Dare, <b>Olorunsola Adeyomoye</b> ,
	Mayowa J. Adeniyi, Alex Enoch (2022). Clinical applications of deep learning in
	neurology and its enhancements with future predictions. Elsevier. doi:
	10.1016/B978-0-323-90277-0.00016-X.
30	Charles Adetunji, Olugbemi Olaniyan, <b>Olorunsola Adeyomoye</b> , Ayobami Dare,
	Mayowa J. Adeniyi, Alex Enoch (2022). An intelligent diagnostic approach for epileptic seizure detection and classification using machine learning. <b>Elsevier</b> . doi:
	10.1016/B978-0-323-90277-0.00011-0.
31	Olugbemi Olaniyan, Charles Adetunji, Ayobami Dare, Olorunsola Adeyomoye,
	Mayowa J. Adeniyi, Alex Enoch (2022). Neural signaling and communication using
22	machine learning. Elsevier. doi: 10.1016/B978-0-323-90277-0.00012-4.
32	Adetunji, C. O., Olaniyan, O. T., <b>Adeyomoye, O.</b> , Dare, A., Adeniyi, M. J., & Enoch, A. (2023). Classification of neurodegenerative disorders using machine
	learning techniques. In Artificial Intelligence for Neurological Disorders (pp. 261-
	273). Academic Press (Elsevier)
33	Olugbemi Olaniyan, Charles Adetunji, Ayobami Dare, Olorunsola Adeyomoye,
	Mayowa J. Adeniyi, Alex Enoch (2022). New trends in deep learning for
	neuroimaging analysis and disease prediction. Elsevier. doi: 10.1016/B978-0-323-90277-9.00012-2.
34	Olugbemi Olaniyan, Charles Adetunji, Ayobami Dare, <b>Olorunsola Adeyomoye</b> ,
	Dare, Olorunsola Adeyomoye, Mayowa J. Adeniyi, Alex Enoch (2022).
	Prevention and diagnosis of neurodegenerative diseases using machine learning
25	models. Elsevier. doi: 10.1016/B978-0-323-90277-9.0009-2.
35	Olugbemi Olaniyan, Charles Adetunji, Ayobami Dare, <b>Olorunsola Adeyomoye</b> , Mayowa J. Adeniyi, Alex Enoch (2022). Artificial intelligence-based early
	detection of neurological disease using non-invasive method based on speech
	analysis. Elsevier. doi: 10.1016/B978-0-323-90277-0.0008-0.
36	Adeyomoye, O., Adetunji, C. O., Olaniyan, O. T., Olayinka, A. S., & Akinbo, O.
	(2023). Sensing and Artificial Intelligence for Food Packaging. Sensing and
37	Artificial Intelligence Solutions for Food Manufacturing, 19-34. CRC Press.
37	Olaniyan, O. T., Adetunji, C. O., <b>Adeyomoye</b> , O., Olayinka, A. S., & Akinbo, O. (2023). Optical Methods: Advanced Image Recognition and Feature Extraction
	Solutions for Food Manufacturing. In Sensing and Artificial Intelligence Solutions
	for Food Manufacturing (pp. 35-48). CRC Press.
38	Adetunji, C. O., Olaniyan, O. T., Abel, I., Adeyomoye, O., Mathew, J. T., &
	Akinbo, O. (2023). Recent Advances in the Characterization and Application of
	Graphene in the Food Industry. Sensing and Artificial Intelligence Solutions for
	Food Manufacturing, 153-164.CRC Press

39	Adeyomoye, O. I., Adetunji, C. O., Olaniyan, O. T., Adetunji, J. B., Akinbo, O.,		
	Inobeme, A., & Ogundolie, F. A. (2023). Postharvest management of aflatoxins		
	in fruits and vegetables. In Evaporative Coolers for the Postharvest Management of		
	Fruits and Vegetables (pp. 101-115). Academic Press (Elsevier).		
40	Adeyomoye, O. I., Olaniyan, O. T., Adetunji, C. O., Akinbo, O., Inobeme, A., Adetuyi, B.		
	O., & Dauda, W. P. (2023). Effect of evaporative cooling structures on tropical and		
	subtropical fruits and nuts. In Evaporative Coolers for the Postharvest Management of		
	Fruits and Vegetables (pp. 237-247). Academic Press (Elsevier)		
41	Adeyomoye, O., Olaniyan, O.T. and Adetunji, C.O. (2023). Production of Polyunsaturated		
	Fatty Acids (PUFAs) and Their Biomedical Application. In Next-Generation Algae		
	https://doi.org/10.1002/9781119857860.ch5		
42	Adeyomoye, O., Olaniyan, O.T. and Adetunji, C.O. (2023). Utilization of Algae and Their		
	Anti-Proliferative and Anti-Inflammatory Activities. In Next-Generation Algae.		
	https://doi.org/10.1002/9781119857860.ch6		

# 6. Edited and Refereed Conference Proceedings

Title	Where Read	Date
*Adewoye E.O, <u>Adeyomoye O.I</u> and Ige A.O, 2014: Effect of Iron on Pancreatic Beta Cell Function and Insulin Resistance in Female Rats	Proceedings of the xxiii <sup>rd</sup> Annual Scientific Conference of the Society [Niger. J.Physiol. Sci. 28 (December 2013)][www.njps.com.ng]	2013
Adeyomoye O.I Effects of honey on glycemic and hematological indices in lead-induced toxicity in male Wistar rats.	Future Physiology 2021 (PC24) <a href="https://www.physoc.org/events/future-physiology-2021">https://www.physoc.org/events/future-physiology-2021</a>	2021
Adeyomoye O.I TGR5, GLP-1, and GIP expression in diabetic Wistar rats in response to <i>Ficus exasperata</i> Vahl leaf extract	Annual Scientific Conference, Physiological Society of Nigeria,	2023

# 7. Manuscript Submitted for Publication (Under peer review)

Citrus Paradisi Seed Extract Restored Cotton Seed Oil (CSO) and Isolated Gossypol (IsoG.) Induced Pre-Frontal Cortex (Pfc) Damage in Wistar rats.

Solanum lycopersicum (tomato) exerts cardioprotective effects via reduced creatinine kinase myocardial band and ATPase activities in Wistar rats exposed to lead acetate

8. Creative Work Nil

- 9. Technical Reports Nil
- 10. Papers and Work in Progress.

## F. Professional Accomplishment Nil

#### G. Conferences, Seminars and Workshops Attended With Dates (Current session)

- PGR Showcase Conference, Division of Cardiovascular Sciences, Faculty of Biology, Medicine & Health, University of Manchester 13-14<sup>th</sup> May, 2024 (Physical)
- Powerlab workshop for transformative teaching and cutting-edge research
   Department of Physiology, University of Medical Sciences (25<sup>th</sup> July, 2024)

   (Physical)
- 3. Annual conference of the Physiological Society in Harrogate, United Kingdom (July 10 July 15, 2023) (**Physical**)
- 4. 40<sup>th</sup> Annual Scientific Conference of the Physiological Society of Nigeria, University of Ibadan (February 7 11, 2023) (**Physical**)
- Animal Care and Use in Research, Education and Testing, University of Medical Sciences, Ondo City, Nigeria (December 5-6, 2023) (Physical)
- Organizer/Facilitator: Clinical Practice in Physiology and Assisted Reproductive Technology in the 21<sup>st</sup> Century: The Role of Biomedical Scientists, Department of Physiology, University of Medical Sciences, Ondo City, Nigeria (29<sup>th</sup> March, 2023). (Physical)
- 7. See the Hidden: Spatial Biology (Microscopy Focus) Bitesize Bio (7<sup>th</sup> July, 2022) (**Physical**)
- 8. Organizer/Facilitator for A-day hands-on workshop on basic molecular techniques, Department of Physiology, University of Medical Sciences, Ondo City, Nigeria (1st June, 2022) (**Physical**)
- 9. 2-Day workshop on Beta Cell Replacement Therapies in T1D organized by the National Institute of Health (NIH), United State of America (18-19 May, 2022) (Virtual)
- 10. 3-Day Compulsory training workshop for academic staff on Teaching and Learning in Higher Education aimed at improving the Pedagogical Teaching Skills of all Academic Staff at University of Medical Sciences, Ondo City, Nigeria (23-25, Nov. 2021) (Physical)

# 11. Recent Advances in Biotechnology Conference, Precious Cornerstone University, Ibadan (4-6 Oct.2021) (Physical)

#### H. Current Research Activities

I'm currently investigating the antidiabetic properties of Ficus exasperatus in Wistar rats using current biomedical techniques.

#### I. Current Relevant Information

Other activities within the University (e.g. Position in Hall Administration, University Sports, e.t.c)

- Coordinator, Development of Physiology Practical Manual i.
- ii. Physiology Examination Officer (2015/2016 Session)
- ii. Course Coordinator & Adviser for 100L Physiology students (2015/2016 Session)
- Member of committee on development and review of Physiology Information iii. Hand Book.
- Chairman, Development of Physiology Annual Reports (2015/2016, iv. 2016/2017 Sessions)
- Physiology Practical coordinator (2016/2017, 2018/2019 & 2019/2020, v. 2020/2021, 2022 Sessions)
- vi. Physiology Lecture schedule coordinator (2017/2018; 2018/2019,2020, 2021 & 2022 Sessions)
- vii Course coordinator for Bachelor of Nursing Science, Physiotherapy and Medical Physics (2017/2018 & 2019/2020, 2020/2021 Sessions)
- Representative of Head of Department in Board of Examiners meeting. ix.
- Faculty of Basic Medical Sciences representative in Faculty Board Meetings X. of Allied Health Sciences

xi	Sub-dean, Faculty of Basic Medical Sciences	2023-Present

Signature:	Date:
	26 <sup>th</sup> July, 2024