

Praise Temilade OZABOR

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Department of Microbiology,

Osun State University, P.M.B. 4494

Osogbo, Osun State.

RESEARCH INTERESTS

Food Microbiology & Biotechnology

Development of Functional Foods & Nutraceuticals

Food Safety & Nutrition

EDUCATION

PhD: University of Ibadan (Food Microbiology)

February 3rd 2025

Dissertation: Inhibition of hydroxymethylglutaryl-coenzyme A reductase and angiotensin-converting enzyme activities implicated in hyperlipidemia and hypertension by starter culture fermented functional gruel

Advisor: Professor Ilesanmi Festus Fadahunsi

RESEARCH EXPERIENCES

- i. Demonstration of the functional effect of a starter culture fermented gruel in an animal model of hyperlipidemia and hypertension
- ii. Used spectrophotometer to determine microbial load in broth samples, analysis of lipid profile in serum, AST & ALT, creatinine & urea and electrolytes
- iii. Performed DNA extraction from bacteria
- iv. Performed molecular analysis using Polymerase Chain Reaction (PCR)
- v. Performed gel electrophoresis to visualize results
- vi. Isolation and characterization of microorganisms (bacteria and fungi) from different food samples
- vii. Used high performance thin layer chromatography (HPTLC) to analyze aflatoxins (B₁, B₂, G₁ & G₂) from feeds mills, oily and non-oily food samples at the International Institute for Tropical Agriculture (IITA), Ibadan, Oyo State, Nigeria.
- viii. Doctoral Researcher at the African Centre for Genomics of Infectious Diseases (ACEGID), Redeemer's University, Ede, Osun State

Administrative Duties

- i. Departmental Postgraduate Coordinator
- ii. Departmental Students Industrial Work Experience Scheme (SIWES) Coordinator
- iii. Departmental Welfare Secretary
- iv. Departmental Academic Board Secretary
- v. Departmental Exam Officer

TEACHING EXPERIENCE

Department of Microbiology, Osun State University

- i. Lecturer I
- ii. Lecturer II
- iii. Assistant Lecturer

- iv. Graduate Assistant

Lecturer I

Department of Microbiology,

Osun State University, PMB. 4494 Osogbo, Osun State.

- i. Design and coordinate postgraduate course work, seminars, research projects, internal and external examinations
- ii. Design and coordinate undergraduate lectures and research projects
- iii. Teaching, professional development and assessment of students learning.
- iv. Collaborate with other colleagues to design curriculum, synopses, lesson plans and time-tables.
- v. Invigilation of exams, marking and computation of undergraduate students' results
- vi. Assigned postgraduate courses: MCB 701 (Principles of fermentation), MCB 713 (Advanced food & industrial microbiology), MCB 721 (Seminar in microbiology/biotechnology)
- vii. Assigned graduate courses: MCB 411 (Microbiological quality assurance), MCB 404 (Industrial microbiology), MCB 309 (Food microbiology), MCB 221 (Introduction to microbiology I), MCB 213 (Food science and production), MCB 208 (Introduction to biotechnology), MCB 204 (Introduction to food science)
- viii. Coordination of postgraduate duties such as conducting of seminars, course work, research studies, internal and external oral examinations

PUBLICATIONS

1. **P.T Ozabor**, J.O Oladele, E.I Ajayi, G.A Sholagbade, O.O Agoi and I.F Fadahunsi. (2026a). Improvement of physicochemical properties and *in vitro* anti-inflammatory potentials of fermented cereals through synergistic fermentation and formulations. *Food Bioscience*. 76(2026):108498. Publisher: Elsevier. <https://doi.org/10.1016/j.fbio.2026.108498>
2. **P.T. Ozabor**, T.S Olumakinde, T.E Oluokun, J.O Oladele and I.F Fadahunsi. (2026b). Biochemical and molecular identification of lactic acid bacteria and yeasts with technological qualities from *ogi* (a cereal-based fermented food in Nigeria). *BioTechnologia*. 107(1): 45-56. Publisher: Institute of Bioorganic Chemistry, Polish Academy of Sciences, Poland. <https://doi.org/10.5114/bta/214383>
3. O.O Oluwajide, J.O Olaitan, W.F. Sule, S.B Akinde, M.A Titilawo and **P.T Ozabor**. (2026c). Comprehensive genotypic report of carbapenem-resistant *Klebsiella pneumoniae* (CRKP) harbouring carbapenemase-resistant genes, porin loss and efflux pump genes in Osun State, Nigeria. *Molecular Reports*. 53(2026): 237. Publisher: Springer Nature. <https://doi.org/10.1007/s11033-025-11400-7>
4. **P.T Ozabor**, S Kayode-Oni and I.F Fadahunsi. (2026d). Microbial succession and potential cyanide-degrading starter culture isolated from retted cassava. *Journal of Multidisciplinary and Translational Research*. 11(1): 45-58. Publisher: Faculty of graduate studies, University of Kelaniya, Sri Lanka. <https://doi.org/10.4038/jmtr.v11i1.426>
5. I.F Fadahunsi, **P.T Ozabor**, J.O Bamigboye, F.T Afolabi (2026e). Optimization of cellulase production by *Aspergillus niger* isolated from soil samples in Ibadan. *Science World Journal*. 20(5): Publisher: Faculty of Science, Kaduna State University. <https://dx.doi.org/10.4314/swj.v21i2.37>

6. **P.T. Ozabor**, J.O. Oladele and I.F. Fadahunsi. (2025a). *In-vitro* screening of angiotensin converting enzyme and hydroxymethylglutaryl-coenzyme A reductase inhibitory activities in lactic acid and yeasts isolated from fermented sorghum gruels. *BioTechnologia*. 106(2): 1-11. Publisher: Institute of Bioorganic Chemistry, Polish Academy of Sciences, Poland. <https://doi.org/10.5114/bta/205474>
7. **P.T Ozabor**, M. Makanjuola, I. Adekomi, G. Oni, O. Oluwajide and J. Olaitan. (2025b). Effects of fermentation on proximate, mineral elements and total antioxidant activity of cloves-cinnamon formulated cereal gruels. *Journal of Food Quality and Hazard Control*. 12(2025): 118-126. Publisher: Shahd Sadoughi University of Medical Sciences and Health Services, Iran. <https://doi.org/10.18502/jfqhc.12.2.18862>
8. **P.T. Ozabor**, N. Olatunji, F. Atanda, R. Bakare, F. Ojo, O. Oluwajide, E. Ogunlana, F. Ayoade and J. Olaitan. (2024a). Evaluation of aflatoxins in selected retailed food stuffs in Osogbo using high performance thin layer chromatography (HP-TLC) and biotransformation potentials of *Lactobacillus casei* strains. *Nigerian Food Journal*. 42(2):33-45. Publisher: Nigerian Institute of Food Science and Technology, Nigeria. <https://dx.doi.org/10.4314/nifoj.v42i2.4>
9. **P.T. Ozabor**, I.F. Fadahunsi, F. Ayoade and J. Olaitan. (2024b). Molecular screening of potential *Bacillus* species bacteriocin starter cultures isolated from Nigerian fermented condiments. *Proceedings of the Nigerian Academy of Science*. 17(1): 96-110. Publisher: The Nigerian Academy of Science, Nigeria. <https://doi.org/10.57046/LEP3275>
10. **P.T. Ozabor**, D. Falomo, E. Taiwo, O. Alabi, P. Adediran, F. Ayoade, I.F. Fadahunsi and J. Olaitan. (2024c). Antagonistic effects of *Bacillus* species against bacterial multi-drug resistant (MDR) food-borne pathogens and aflatoxigenic fungi. *UMYU Journal of Microbiology Research*. 9(3): 89-103. Publisher: Department of Microbiology, Umaru Musa Yar'adua University, Nigeria. <https://doi.org/10.47430/ujmr.2493.012>
11. **P.T. Ozabor**, O. Oluwajide, J. Oni, C. Owolabi, A. Ajani, S. Jayeola, F. Ayoade and J. Olaitan. (2023a). Bacteriological assessment of fried ready-to-eat (RTE) vended foods sold in Osogbo, Osun State, Nigeria. *Food and Environment Safety*. 22(4): 238-247. Publisher: Food Engineering Faculty, Stefan cel Mare University, Suceava, Romania. <https://doi.org/10.4316/fens.2023.022>
12. O.O. Oluwajide, G.M. Ademeso, E.O. Oladapo, R.I. Opatoro, Z.O. Ponle, T.S. Olumakinde, T.E. Oluokun, **P.T. Ozabor** and J.O. Olaitan. (2023a). Occurrence of carbapenem-resistant *Enterobacteriaceae* (CRE) harboring BLA IMP, BLA KPC and BLA OXA-48 genes recovered from ready-to-dispose poultry wastes in Osogbo, Osun State. *Stamford Journal of Microbiology*. 13(1): 15-20. Publisher: Department of Microbiology, Stamford University, Bangladesh. <https://doi.org/10.3329/sjm.v13i1.70407>
13. J.O. Olaitan, **P.T. Ozabor**, S.B. Akinde, **O.O.** Oluwajide, **F.T.** Oyetunji and **N.O.** Arogundade. (2022a). Antibacterial inhibitory effect of *Allium sativum* (garlic) and *Zingiber officinale* (ginger) on resistant organisms isolated from chicken abattoir. *Nigerian Journal of Microbiology*. 36(1): 5991-6000. Publisher: Nigerian Society for Microbiology, Nigeria. www.nsmjournal.org.ng
14. J.O. Olaitan, **P.T. Ozabor**, O.O. Oluwajide, S.O. Olaniyan, F.A. Alafe and O.M. Stephen. (2022b). Microbiological assessment of irrigation water that serves as watershed for wastewater in Osogbo and its impact on fresh vegetables. *UNIOSUN Journal of Engineering and Environmental Sciences*. 4(1): 92-100. Publisher: Faculty of Engineering, Osun State University, Nigeria. <https://doi.org/10.36108/ujees/2202.40.0190>

15. J.O. Olaitan, **P.T. Ozabor**, A.A. Wahab and O.O. Oluwajide. (2021). Survey and fourier transform infrared microscopy (FTIR) analysis of yeasts isolated from dairy products in Osogbo metropolis. *Food and Environment Safety*. 20(4): 343-351. Publisher: Food Engineering Faculty, Stefancel Mare University, Suceava, Romania. <https://doi.org/10.4316/fens.2021.037>
16. I.F. Fadahunsi, A.D. Akoja and **P.T. Ozabor**. (2020). Characterization of indigenous yeasts species isolated from fruits for pineapple wine production. *Carpathian Journal of Food Science and Technology*. 12(5): 109-121. Publisher: The Technical University of Cluj Napoca, Romania. <https://doi.org/10.34302/crpjfst/2020.12.5.8>

HONOURS AND AWARDS

- i. Patent: Biotherapeutic starter culture fermented gruel for the control of hyperlipidemia and hypertension: NG/PT/NC/O/2026/24799
- ii. TeTFund Scholarship for PhD 2019-2023
- iii. TeTFund Scholarship for MSc. 2016-2018
- iv. Osun State University Scholar 2008-Present
- v. Recipient of Osun State University Scholarship Award for three consecutive academic sessions. (2008/2009; 2009/2010; 2010/2011)
- vi. Meritorious Award as the best student by the Nigerian Association of Microbiology Students, Osun State University Chapter; 2010 – 2011 Academic Session

PROFESSIONAL DEVELOPMENT TRAINING

Conferences

- i. Organization for women in science for the developing world (OWSD) biennial conference. 1st – 4th September, 2026. Obafemi Awolowo University, Ile-Ife.
- ii. 47th Nigerian Society for Microbiology Scientific Conference & Annual General Meeting. 14th-19th September, 2025. University of Cross River, Cross River State, Nigeria.
- iii. IARSAF 27th annual symposium. Theme: Building resilient food systems in Africa: leveraging technology, innovative research, and inclusive collaborations for sustainable nutrition security amid climate change. 18th-21st November, 2024. International Institute for Tropical Agriculture (IITA), Ibadan.
- iv. The 5th International Electronic Conference on Foods. Purdue University/MPDI. 28th-30th October, 2024.
- v. Institute for Global Health and Development (IGHD) at Aga Khan University, 14th October, 2024. Theme: Climate change and Agriculture solution's impact on nutrition.
- vi. 2nd UMYU Conference on Microbiology and Related Sciences, Department of Microbiology, Umaru Musa Yar'Adua University, Kastina. 27th -29th February, 2024.
- vii. Nigerian Society for Microbiology. Theme: Emerging Microbial Technologies for National Economic Development. University of Benin, Ugbowo Campus, Benin City. 27th November- 1st December, 2023.
- viii. Ecological Society of Nigeria (ECOSON). Theme: Biodiversity conservation and ecotourism potential in a developing world. Osun State University, Osogbo. 5th – 9th November, 2023.
- ix. Nigerian Society for Microbiology- South West Zone. Theme: Microbes in Wealth Creation: A sure way out of recession. Afe-Babalola University, Ado-Ekiti. 14th-16th May, 2018.

- x. Nigerian Society for Microbiology-South –West Zone. Theme: Harnessing microbes for health and wealth. 1st zonal symposium organized by King’s University, Ode-Omu, Osun State. 5th -8th December, 2016.
- xi. Nigerian Society for Microbiology. Theme: Microbiology for Economic Diversification and Sustainable Health. University of Nigeria, Nsukka. 19th -23rd September, 2016.

Poster Presentation

- i. **Ozabor, P.T.**, Oladele, J.O and Fadahunsi, I.F. Isolation of lactic acid bacteria and yeasts from fermented corn gruels with angiotensin converting enzyme (ACE) and hydroxymethylglutaryl-coenzyme A (HMG-CoA) reductase inhibitory activities. *The 5th International Electronic Conference on Foods*. Purdue University/MPDI. 28th-30th October, 2024.
- ii. J. Olaitan, **P. Ozabor**, V. Olaitan, S. Akinde, S. Fadahunsi. (2023). Characterization of food grade *Bacillus* species isolated from Nigerian spontaneously fermented condiments and detection of bacteriocin producing genes. *American Society for Microbiology*: Houston, Texas. 14th -19th June, 2023.

Workshops

- i. Osun State University one-day workshop on E-assessor software and automated review for all academic staff members. Olagunsoye Oyinlola Auditorium. 11th April, 2025.
- ii. One-day capacity building workshop organized for all teaching staff of Osun State University. 20th November, 2023.
- iii. International computer driver license (ICDL) training. Modern Innovative Engineering & Technology Limited in conjunction with Osun State University, Osogbo. 11th -15th October, 2021
- iv. Oxford University and Osun State University, 17th November, 2020. Ethics in Biomedical Research and Global Best Practices in the context of Preventive Chemotherapy Neglected Tropical Diseases (PC-NTDs) Elimination Strategy in Nigeria
- v. Carnegie African Diaspora Fellowship Program in conjunction with Osun State University, Osogbo, Nigeria, 2nd – 4th July, 2018. Hands-on training on Microbial Surveillance.
- vi. The American Society for Microbiology (ASM) Workshop on Scientific Writing and Publishing. Joseph Ayo Babalola University, Ikeji-Arakeji, Osun State. May 1st, 2018.

PROFESSIONAL AFFILIATIONS

- i. Organization of Women in Science for the Developing World (OWSD)
- ii. Nigerian Institute of Food Science and Technology (NIFST)
- iii. Global Forum on Food Security and Nutrition (FSN)
- iv. Nigerian Society for Microbiology (NSM)
- v. American Society for Microbiology (ASM)

COMMUNITY SERVICE

- i. LOC member: 7th Circularity African Conference hosted by Osun State University, 12th-15th May, 2026.
- ii. South-west coordinator for the 47th Nigerian Society for Microbiology Conference, University of Calabar. 14th-19th September, 2025.
- iii. LOC member: Ecological Society of Nigeria (ECOSON). Theme: Biodiversity conservation and ecotourism potential in a developing world. Osun State University, Osogbo. 5th – 9th November, 2023.

- iv. Humanitarian services as a member of the 700 Club, Nigeria
- v. Contribution towards the Folorunsho Alakija Boulevard, Osun State University, Osogbo
- vi. Humanitarian services at Abike Orphanage Home, Oke-Onitea, Osogbo, Osun State

LANGUAGES

English; Native Languages (Yoruba and Edo) with distinguished levels in listening, speaking, reading, and writing.

SKILLS

Computer

Applications: Windows and Mac OS, Use of Microsoft Office Suite, Presentation software (PowerPoint), Spreadsheets (Excel), Graphics designing, Communication tools (Skype, Zoom, Duo, WhatsApp)

REFREES

Professor Ilesanmi. F Fadahunsi
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Relationship: Research collaborator & mentor.