

CURRICULUM VITAE: Dr. Oluwabusayo Odunola OLUYIDE

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ACADEMIC PROFILE

PhD in Microbiology – Ladoke Akintola University of Technology (2023)

Thesis: Bioenergy generation of Bacteria using food processing wastewater as a substrate in a microbial fuel cell

M.Tech in Biotechnology – Ladoke Akintola University of Technology (2012)

B.Tech in Microbiology – Ladoke Akintola University of Technology (2005)

Fellow, Nigerian Institute of Biomedical Engineering and Technology (NIBET)

TECHNICAL RESEARCH SKILLS

- **Molecular Biology:** RNA extraction, cDNA synthesis, qPCR (Gene expression), and Sanger Sequencing.
- **Biotechnology:** Construction of microbial fuel cells (MFC), bioenergy generation, and cell culture.
- **Analytical:** Microscopy, molecular and biochemical techniques, and statistical analysis (SPSS).

AWARD

Best effective lecturer at College of Health Sciences and Technology, Ijero- Ekiti (**2014**)

WORK EXPERIENCE

2024	Lecturer: Osun State University, Osogbo College of Science, Engineering, and Technology Faculty of Basic and Applied Sciences Department of Biotechnology
2011 – 2023	Lecturer: Department of Basic Medical Sciences & Biomedical Engineering College of Health Sciences and Technology, Ijero-Ekiti, Nigeria.
10/ 2007 – 07/2011	Teaching: GOF International College, Onward Area, Osogbo, Osun State
03/2006- 02/2007	Olufadi Health Centre, Edun Street, Kwara state (NYSC) - Job Specification: Analysis of laboratory sample Handling and supervision of practical materials.
04/2004- 09/20	University College Hospital (UCH), Ibadan, Oyo State, (Industrial training) Job Specification: Supervision and monitoring of samples Samples collection and analysis Laboratory maintenance

PROFESSIONAL APPOINTMENTS

- **Lecturer**, Department of Biotechnology, Osun State University | **2024 – Present**
- **Head of Department**, Biomedical Engineering and Technology, CHST Ijero-Ekiti | **2015 – 2023**

- **Head**, College Research and Innovation Development, CHST Ijero-Ekiti | **2023**
- **Peer Reviewer**, *Journal of Energy Research and Reviews & EKSU Journal of Science* | **2023 – Present**

SELECTED PEER-REVIEWED PUBLICATIONS

I. International High-Impact & Forthcoming (2025–2026)

These show you are at the cutting edge of Biotechnology and Nanotechnology.

- **Oluyide, O. O.**, et al. (2026). **Applications of Nanomaterials/Nanotechnology** in Batteries, Energy Storage Devices, Supercapacitors, Fuel Cells, and Smart Materials. In *Ionic Liquids, Nanofluids and Nanotechnology: Innovations, Applications and Sustainability* (pp. 315–331). **Springer Nature Switzerland**.
- **Oluyide, O. O.**, et al. (2026). **Exploring the Biomedical and Biotechnological Potential** of Ionic Liquids, Nanofluids, and Nanoparticles. In *Ionic Liquids, Nanofluids and Nanotechnology* (pp. 251–265). **Springer Nature Switzerland**.
- **Oluyide, O. O.** (2026). Valorization of pretreated sawdust and poultry manure for biogas and digestate organic fertilizer production. *Sustainable Chemistry One World (Elsevier)*, 9, 100203.
- Oyedara, O. O., ... **Oluyide, O. O.**, et al. (2025). Evaluation of the pharmacological potential of *Ganoderma lucidum* against haemorrhagic and anticoagulant activities of *Echis ocellatus* venom. *BMC Biotechnology*, 25(1), 105.
- Ametefe, G. D., **Oluyide, O. O.**, et al. (2025). **Engineering Microbial Strains and Enzymes** for Enhanced Productivity. In *Value Addition and Utilization of Lignocellulosic Biomass*. **Springer Nature Singapore**.
- **Oluyide, O. O.**, et al. (2025). Role of **Microbial Fuel Cells** for Waste Treatment and Sustainable Electricity Generation. In *Waste to Wealth: Emerging Technologies for Sustainable Development*. **CRC Press (Taylor & Francis)**.

II. Core Biotechnology & Bioenergy Research (2020–2024)

These establish your PhD-level expertise in Microbial Fuel Cells and Gene Expression.

- **Oluyide, O. O.**, et al. (2024). Performance evaluation of different electrode materials and substrate modifications on bioelectricity generation. *Nigerian Journal of Biotechnology*, 41(1), 29–44.
- Elufisan, T. O., Oyedara, O. O., & **Oluyide, O. O.** (2023). **Transcriptional Regulation of Phyto-oxylipins** Signaling Pathway. In *Phyto-Oxylipins*. **CRC Press**.
- **Oluyide, O. O.**, et al. (2020). **Bioelectricity generating potentials** and molecular characterization of bacterial species from food processing wastewater. *Bioscience Research*, 17(3), 1783–1791.
- Adenigba, V. O., ... **Oluyide, O. O.**, et al. (2020). Effect of operational conditions on bioelectricity production in algal fuel cell. *International Journal of Renewable Energy Technology*, 11(1), 70–85.
- Agbele, A. T., ... **Oluyide, O. O.**, et al. (2020). Protection against ionizing radiation-induced normal tissue damage by **resveratrol**: A systematic review. *The Eurasian Journal of Medicine*, 52(3), 298.

III. Foundational Microbiology & Extremophile Studies

This section proves your long-term experience with the organisms (Halophiles) you are proposing for the Ulam stay.

- **Oluyide, O. O.**, Oloke, J. K., et al. (2013). **Investigation on the Ability of Sulfonolipid from**

Salinibacter ruber to Ameliorate the Toxic Effect of Sodium Arsenite. *Annual Review & Research in Biology*, 3(4), 860-872.

- Olowomofe, T. O., ... **Oluyide, O. O.** (2019). Isolation, Screening and Molecular Identification of **Cellulose-degrading Bacteria**. *Frontiers in Environmental Microbiology*, 5(3), 77-83.
- **Oluyide, O. O.** (2018). Communication and Awareness of Programmes in **Biosafety, Biosecurity, and Biorisk** in Health Institutions. *Security and Intelligence Reviews*, 2(2), 184-190.

Training Courses/Certifications

11/2024	Workshop and conference on Nanotechnology Revolution for Sustainable Development: Securing the future for the benefit of humanity (LAUTECH NANO+ 2024 OGBOMOSO)
08/2024	Training on quantitative PCR/Gene expression and sanger sequencing Technologies, UNIOSUN multidisciplinary research laboratory in conjunction With Inquaba Biotech West Africa
04/2023	Workshop on capacity building for higher efficiency by Ekiti state college of Health Sciences and Technology
08/2022	Annual international conference on Science, Health and Technology hosted by Ekiti State college of Health Sciences and Technology
08/2021	Annual international conference on Science, Health and Technology hosted by Ekiti state college of Health Sciences and Technology
10/2018	Workshop and conference on Nanotechnology for Sustainable Development: prospect for sustainable Africa (LAUTECH NANO+ 2018, OGBOMOSO)
08/ 2018	Hands On Training In Basic Molecular Biology Techniques and Bioinformatics (FUOYE BIOTECHNOLOGY CENTRE, OYE EKITI)
10/2017	Affordable Access to Healthcare Technology and Services, Sickel Cell Foundation, LUTH Lagos State (NIBET)
10/2017	Promoting Health Security through safety enforcement for enhanced productivity in Health care Institutions (Institute of Security Nigeria, University of Lagos)
09/2017	Convergence of qualitative and quantitative research approach (FUOYE HUMBOLDT KOLLEG, OYE EKITI)
06/2017	Mentoring and Professional Development in Biomedical Engineering, NABET zonal seminar, CHST Ijero Ekiti
04/ 2017	Functional foods and nutraceuticals: Translating the knowledge of food bioactive compounds to effective health care delivery in developing world FUTA HUMBOLDT KOLLEG, AKURE
03/2017	Training on Integration of Oracle Database Management System and Database Management Analysis (SPSS)
10/2016	Career Mobility and Flexibility in Biomedical Engineering, NABET, UITH ILORIN

08/ 2016-	2-Day Training on Understanding the Fundamentals of Governance Ethics and Public Service Value Mentality; the Role of Public Servant in the Change Era by Center For Ethics and Self Value Orientation, CHST, IJERO .
06/ 2015	Harvesting Research outcomes: a practical plan to confirm achievement of the Millennium development goal.(HUMBOLDT-KOLLEG LAUTECH OGBOMOSO)
10/ 2014	Development of Manpower in Biomedical Engineering and Technology, Calabar
04/2013-2016	College of Biomedical Engineering & Technology [Career Development Course CDC,]“Fellow College of Biomedical Engineering & Technology FCBET
01/2010	Complete speech transformation
02/ 2009	Elimination of learning barriers
INTERESTS	
• Reading, Listening to music and travelling.	
PAPER PRESENTED AT INTERNATIONAL/NATIONAL CONFERENCE	
08/2022	Isolation, Characterisation and Physicochemical Analysis of Bacteria from Locust Beans Effluent Utilized for Bioelectricity Generation (ANNUAL CONFERENCE, CHST Ijero ekiti)
10/2021	Bioelectricity generation potentials of locust bean wastewater in microbial fuel cell using gold-silver electrode material (ANNUAL CONFERENCE, CHST Ijero ekiti)
04/2017	Enhancement of bioelectricity using bacterial-catalyzed microbial fuel cell isolated from wastewaters. (Humboldt Kolleg Conference, Federal University of Technology, Akure) 2nd-6th April 2017
10/2017	Communication and awareness of programmes in Biosafety, Biosecurity, Biorisk, and Biomedical Technology in Health Institutions. (Institute of Security Nigeria Conference University of Lagos) 25th-26th October,2017
LANGUAGE PROFICIENCY	
English and Yoruba languages	
PROFESSIONAL MEMBERSHIP	
• Member (Nigerian Society for Microbiologist) • Fellow (NIBET) Nigerian Institute of Biomedical Engineering and Technology • Environmental Health Registration Council of Nigeria • Biotechnology Society of Nigeria	
REFEREES	
Prof. J. K Oloke Lecturer Department of Pure and Applied Biology, Ladoke Akintola University of Technology P.M.B. 4000 Ogbomoso, Oyo State. 0810 022 041 jkoloke@yahoo.co.uk Prof. E.A Adebayo Lecturer Department of Pure and Applied Biology, Ladoke Akintola University of Technology P.M.B. 4000 Ogbomoso, Oyo State. 0803 809 9092	

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Prof. E. O Akindele

Lecturer

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