

CURRICULUM VITAE

A. GENERAL INFORMATION

1. **Name:** TITILAWO Mobolaji Adenike
2. **Gender:** Female
3. **Nationality:** Nigerian
4. **State of Origin:** Osun
5. **Marital Status:** Married
6. **E-mail:** mobolaji.adeniyi@uniosun.edu.ng / adeniyi_mobolaji@yahoo.com
7. **ResearchGate link:** <https://www.researchgate.net/profile/Mobolaji-Titilawo>
8. **Google Scholar link:** <https://scholar.google.com/citations?user=3Ln93y0AAAAJ&hl=en>
9. **Office Address:** Department of Microbiology, Faculty of Basic and Applied Science, Osun State University, Osogbo, Osun State

B. EDUCATIONAL BACKGROUND

(1) Educational Institutions Attended with Dates

- i. Obafemi Awolowo University, Ile-Ife, Osun State 2014 - 2017
- ii. Obafemi Awolowo University, Ile-Ife, Osun State 2011 - 2014
- iii. Obafemi Awolowo University, Ile-Ife, Osun State 2004 - 2008

(2) Academic and Professional Qualifications with Dates / Issuing Authority:

- i. Ph.D. (Microbiology) / Obafemi Awolowo University, Ile-Ife, Osun State - November 2017
- ii. M.Sc. (Microbiology) / Obafemi Awolowo University, Ile-Ife, Osun State - September 2014
- iii. B.Sc. (Microbiology) / Obafemi Awolowo University, Ile-Ife, Osun State - November 2008

(3) Honours, Awards and Distinctions:

a. Academic Award

- i. **Prize:** Best Poster Presenter, at the Humboldt Research Hub-Centre for Emerging and Re-emerging Infectious Diseases (HRH-CERID) Conference held between 26th and 30th October, 2025, at Ladoke Akintola University of Technology and Ragarray Hotel, Ogbomosho, Oyo State, Nigeria
- ii. **Prize:** Best Graduating Student, Osogbo Steel Rolling Company Staff School, 1995/1996 session

b. Grants

- i. **Recipient:** 2019 African-German Network of Excellence in Science – Programme Advocating Women in Science (AGNES-PAWS) Grant; January, 2020
- iii. **Recipient:** United Kingdom Research Innovation (UKRI) travel grant to attend GCRF Global Engagement Meeting in Bangkok, Thailand; February, 2019
- iv. **Recipient:** Research Council United Kingdom (UK) travel grant to attend GCRF Global Engagement Meeting in New Delhi, India, November, 2017
- v. **Recipient:** Infection Control Africa Network (ICAN) scholarship to attend the 6th ICAN Congress in Johannesburg, South Africa, September, 2016

C. WORK EXPERIENCE

- i. **Senior Lecturer:** Department of Microbiology, Osun State University, Osogbo, October 1, 2024 to date
- ii. **Lecturer I:** Department of Microbiology, Osun State University, Osogbo, October 1, 2021 – September 30, 2024
- iii. **Lecturer II:** Department of Microbiology, Osun State University, Osogbo, November 15, 2017 – October 1, 2021
- iv. **Assistant Lecturer:** Department of Microbiology, Osun State University, Osogbo, March 4, 2015 – November 15, 2017

D. CO-CURRICULAR PROFESSIONAL EXPERIENCE

- i. **Reviewer:** United Kingdom Research Innovation International Development Peer Review College
- ii. **Reviewer:** Environmental Monitoring Assessment, 2026
- iii. **Reviewer:** Biodegradation, 2025
- iv. **Reviewer:** Environmental Monitoring and Assessment, 2024
- v. **Reviewer:** AMB Express, 2024
- vi. **Reviewer:** Discover Environment, 2024
- vii. **Reviewer:** Sustainable Water Resources Management, 2024
- viii. **Reviewer:** Springer Nature Applied Sciences, 2023
- ix. **Reviewer:** Journal of Herbal Medicine, 2023
- x. **Reviewer:** Jordan Journal of Biological Sciences, 2022
- xi. **Reviewer:** Molecular Biology, 2019
- xii. **Reviewer:** Journal of Science, Obafemi Awolowo University, Ile-Ife, Nigeria, 2017

E. MEMBERSHIP OF PROFESSIONAL BODIES:

- i. **Member:** Nigerian Young Academy (NYA)
- ii. **Member:** Mycological Society for Nigeria (MYCOSON)

- iii. **Member:** American Society for Microbiology (ASM)
- iv. **Member:** Applied Microbiology International (AMI)
- v. **Member:** FAILSAFE Medical Mycology Network
- vi. **Member:** Society of Environmental Toxicology and Chemistry (SETAC)
- vii. **Member:** British Society of Antimicrobial Chemotherapy (BSAC)
- viii. **Member:** United Kingdom Research Innovation International Development Peer Review College

F. SERVICE IN THE UNIVERSITY

- i. **Acting Head:** Department of Microbiology, Osun State University, Osogbo (UNIOSUN) (Nov. 2025 to date)
- ii. **Coordinator:** Part-Time Microbiology Programme, Osun State University, Osogbo (2021-2025)
- iii. **Chairperson:** Welfare Committee, Department of Microbiology, UNIOSUN (2024 - 2025)
- iv. **Chairperson:** Finance Committee, Department of Microbiology, UNIOSUN (2025 to date)
- v. **Secretary:** Postgraduate Board, Department of Microbiology, UNIOSUN (2021 - 2025)
- vi. **Secretary:** Department of Microbiology Academic Board, UNIOSUN (2016 - 2018)
- vii. **Staff Adviser:** National Association of Microbiology Students, UNIOSUN (2021 - 2025)
- viii. **SIWES Coordinator:** Department of Microbiology, UNIOSUN (2019 - 2021)
- ix. **Examination Officer:** Department of Microbiology, UNIOSUN (2017-2018)
- x. **Course Coordinator:** at the Departmental level (2017 to date)
- xi. **Staff Adviser:** Microbiology undergraduate students, UNIOSUN (2018 to date)
- xii. **Member:** Finance Committee, Department of Microbiology (2024 to 2025)
- xiii. **Member:** UNIOSUN Journal of Basic and Applied Sciences (2025 to date)
- xiv. **Member:** College of Science, Engineering and Technology Board, UNIOSUN (2017 to date)
- xv. **Member:** Faculty of Basic and Applied Science Academic Board, UNIOSUN (2017 to date)

G. COMMUNITY SERVICE

- i. **Participant:** Stakeholders' Engagement for the UNILAG-Warwick Participatory Research Fund Project (July, 2025)
- ii. **Co-Facilitator and Co-Investigator:** Sustainable Development Goal 3 and 6 Campaign at Seke Village, along Ikirun-Osogbo Expressway, Osun State (February, 2023)
- iii. **Igbajo Community Education Summit (ICES):** Giving Every Child an Equal Opportunity to Succeed at Owa's Palace, Igbajo, Osun State, Nigeria (July, 2021)
- iv. **Member:** Health Campaign Community Development Service Group, Jos, Plateau State (August 2009 – June 2010)

(4) PUBLICATIONS

i. BOOKS

1. Odeyemi O., **Adeniyi, M.A.** (2015). Ecology and Pictorial Atlas of Nigerian Mushrooms. 1st Edition, Signet Impression and Design Ltd, Nigeria.

ii. Chapters in Books:

2. Ayilara M.S., Olanrewaju O.S., Odeyemi O., **Titilawo M.A.** (2022). Bio-resources utilization in fostering a low-carbon renewable energy-based economy. In: *Bioenergy and environmental biotechnology for sustainable development*. 1st Edition, CRC Press, Taylor and Francis Group, 2-10. ISBN:978-0-367-76705-1. Published by Taylor and Francis Group.

iii. Articles in Learned Journals:

3. **Titilawo M.A.**, Ajigbewu O.H., Adeyemi F.M., Wahab A.A., Ajigbewu F.A., Oyetunbi D.I., Prosper, C.D. Identification, phylogenetic analyses and antifungal resistance of filamentous fungi associated with chronic wounds. *UNIOSUN Journal of Basic and Applied Sciences* 1(1) 228-240.
4. Oluwajide O.O., Olaitan J.O., Sule, W.F., Akinde S.B., **Titilawo M.A.**, Ozabor P.T. (2026). Comprehensive genotypic report of carbapenem-resistant *Klebsiella pneumoniae* (CRKP) harbouring carbapenemase-resistant genes, porin loss and efflux pump genes in Osun State, Nigeria. *Molecular Biology Reports* 53:237. DOI: 10.1007/s11033-025-11400-7.
5. **Titilawo M.A.**, Akinniranye B.O, Ajani T.F., Titilawo Y., Olaitan J.O., Adebooye C.O. (2025). Surface waters are hotspots of multidrug-resistant fungi: insight from selected waterbodies in Osun State, Nigeria. *Total Environment Microbiology* 100035. DOI: 10.1016/j.temicr.2025.100035.
6. **Titilawo M.A.**, Esan O.T., Oyetunbi D.I., Titilawo Y., Olaitan J.O. (2025). Investigating an emerging menace in groundwater sources: the occurrence, antifungal resistance phenotypes, and virulence potential of yeast contaminants. *Discover Water* 5(1): 87. DOI: 10.1007/s43832-025-00283-1. Published by Springer
7. Fasina R.P., Omole R.K., **Titilawo M.A.**, Olaitan J.O. (2025). Gas chromatography-mass spectrometry characterization of carotenoids produced by yeasts isolated from edible fruits and vegetables marketed in Osogbo metropolis, Southwest Nigeria. *Discover Sustainability* 6:333. DOI:10.1007/s43621-025-01188-8.

8. Olaitan J.O., Dieseru M.A., Oluwajide O.O., **Titilawo M.A.**, Akinde S.B., Daramola O.B. (2025). Surveillance and potential health risks of antibiotic-resistant Shiga-toxigenic *Escherichia coli* isolated from beef sold in Osogbo, Nigeria. *Discover Bacteria* 2:6. DOI:10.1007/s44351-025-00012-y.
9. **Titilawo M.A.**, Oyebamiji P.O., Olanipekun, K.K., Oluwajide, O.O., Oyediji, D.P., Titilawo Y., Olaitan, J.O. (2024). Antifungal resistance profile and genetic relatedness of moulds from rural groundwater sources. *Discover Public Health* 21:109. DOI:10.1186/s12982-024-00218-6.
10. **Titilawo M.A.**, Ajani T.F., Akinleye G.O., Ogunlana E.O., Ojediran G.O., Titilawo O.Y., Olaitan J.O. (2024). Antifungal susceptibility and evaluation of risks associated with heavy metals distributed in selected dumpsite soils of Osogbo metropolis, Southwest Nigeria. *Nigerian Journal of Microbiology* 38(1): 6916-6929.
11. **Titilawo M.A.**, Josiah C.G., Simeon O.N., Ali C.M., Ugwuocha C.S., Ojediran G.O., Titilawo O.Y., Olaitan J.O. (2024). Physical quality and antibiotic susceptibility profile of *Escherichia coli* isolates from roof-harvested rainwater: a microcosm study. *Ife Journal of Science* 26(1): 059-068. DOI:10.4314/ij.s.v26i1.5.
12. Ojediran G.O., Ojediran O.O., Titilawo O.Y., Shehu Z., **Titilawo M.A.** (2024). Fractionation and characterization of natural antibacterial compounds from *Euphorbia hirta* Linn (Asthma Plant). *BIMA Journal of Science and Technology* 8(1B): 170-179.
13. **Titilawo M.A.**, Adeyemi F.M., Ajani T.F., Ogunlana E.O., Titilawo Y. (2023). Evaluation of fungal permeated lignocellulosic filter for remediation of water pollutants. *African Journal of Pure and Applied Sciences* 4(3): 35-43. DOI:10.33886/ajpas.v4i3.423.
14. **Titilawo M.A.**, Ajani T.F., Adedapo S.A., Akinleye G.O., Ogunlana O.E., Aderibigbe, D. (2023). Evaluation of lead tolerance and biosorption characteristics of fungi from dumpsite soils. *Discover Environment* 1: 24. DOI:10.1007/s44274-023-00025-x.
15. **Titilawo M.A.**, Fatoki C.O., Titilawo Y., Olaitan J.O. (2023). Assessment of multidrug-resistant phenotypes and detection of ampicillin-resistant determinants among *Escherichia coli* isolates of groundwater origin: case study – Osogbo, Southwest Nigeria. *Sustainable Water Resources Management* 9: 8. DOI:10.1007/s40899-022-00785-z.
16. **Titilawo M.A.**, Temitope F.A., Oladapo M.A. (2022). *Amanita cokeri* (a poisonous suspect mushroom) contains chemical compounds of industrial importance. *Acta Microbiologica Bulgarica* 36(4): 346-351.
17. **Titilawo M.A.**, Faseun A.O., Akinde S.B., Olaitan J.O., Odeyemi O. (2022). Bioactivity of four Nigerian wild mushrooms against some typed clinical isolates. *Jordan Journal of Biological Sciences* 15(1): 67-73. DOI:10.54319/jjbs/150109.
18. Adeyemi F.M., Wahab A.A., Oyelami C.A., Oyedara O.O., **Titilawo M.A.**, Adebunmi A.A., Awoniyi I.O. (2022). Hydrology survey and water quality assessment of water sources in three selected towns in Osun State, Southwest Nigeria. *International Journal of Energy and Water Resources* 7:271-284. DOI:10.1007/s42108-022-00180-6.
19. **Titilawo M.A.**, Oluduro A.O., Odeyemi O. (2020). Proximate and chemical properties of some underutilized Nigerian wild mushrooms. *Journal of Microbiology, Biotechnology and Food Sciences* 10(3): 390-397. DOI:10.15414/jmbfs.2020.10.3.390-397.
20. Titilawo Y., Nwuakpa F., Bankole S., Nworie O., Okoro C., **Titilawo M.**, Olaitan J. (2020). Quality audit of drinking water sources in Ikwo rural setting of Ebonyi, Southeastern Nigeria. *International Journal of Energy and Water Resources* 4: 321-334. DOI:10.1007/s42108-020-00062-9.
21. Titilawo Y., Akintokun A., Shittu O., **Adeniyi M.**, Olaitan J. (2019). Physicochemical properties and total coliform distribution of some selected rivers in Osun State, Southwestern Nigeria. *Polish Journal of Environmental Studies* 28(6): 4417-4428. DOI: 10.15244/pjoes/81561.
22. Titilawo Y., Adeniji A., **Adeniyi M.**, Okoh A. (2018). Determination of levels of some metal contaminants in the freshwater environments of Osun State, Southwest Nigeria: A risk assessment approach to predict health threat. *Chemosphere* 211: 834-843. DOI:10.1016/j.chemosphere.2018.07.203.
23. **Adeniyi M.**, Titilawo Y., Oluduro A., Odeyemi O., Nakin M., Okoh A. (2018). Molecular identification of some wild Nigerian mushrooms using internal transcribed spacer: polymerase chain reaction. *AMB Express* 8:148. DOI: 10.1186/s13568-018-0661-9.
24. Akinde S.B., Olaitan J.O., Ajayi E.I., **Adeniyi M.A.**, Ige O.O., Adebooye O.C. (2018). Fungal quality and molecular characterization of aflatoxin-producing *Aspergillus* species in irrigation water and fresh vegetables in Southwest Nigeria. *Jordan Journal of Agricultural Sciences* 14(1): 51-70. **Adeniyi M.A.**, Odeyemi, Y., Odeyemi O. (2018). Ecology, diversity and seasonal distribution of wild mushrooms in a Nigerian tropical forest reserve. *Biodiversitas* 19(1): 285-295. DOI:10.13057/biodiv/d190139.
25. **Adeniyi M.A.**, Odeyemi, Y., Odeyemi O. (2018). Ecology, diversity and seasonal distribution of wild mushrooms in a Nigerian tropical forest reserve. *Biodiversitas* 19(1): 285-295. DOI:10.13057/biodiv/d190139.
26. Akinde S.B., **Adeniyi M.A.**, Adebunmi A.A., Oluwajide O.O., Ogunnaike O.O. (2017). Comparative effectiveness of chemical biocides and *Acalypha wilkesiana* leaf extract against postharvest fungal deteriorogens of sweet orange (*Citrus sinensis*) fruits. *Egyptian Journal of Basic and Applied Sciences* 4(2): 143-152. DOI:10.1016/j.ejbas.2017.03.001.

(5) CONFERENCES AND WORKSHOPS ATTENDED

a. International

1. Humboldt Research Hub-Centre for Emerging and Re-emerging Infectious Diseases (HRH-CERID) Conference held between 26th and 30th October, 2025, at Ladoké Akintola University of Technology and Ragarray Hotel, Ogbomoso, Oyo State, Nigeria. **Paper Presented:** Climate change impacts on fungal populations and antifungal resistance in surface water: a snapshot study
2. Wellcome Connecting Science, Genomics of Rare Diseases 2023, between 24th and 26th April, 2023
3. West African Network of Infectious Diseases (WANIDA) Symposium at Accra, Ghana on 10th March, 2023 (**Virtual attendance**)
4. British Society for Antimicrobial Therapy and Global Antibiotic Research Development and Partnership, Antimicrobial Chemotherapy Conference 2023, between 1st and 2nd February 2023 (**Virtual attendance**)
5. Wellcome Connecting Science, Genome Informatics 2022 between 21st and 23rd September 2022 (**Virtual attendance**)
6. Humboldt Kolleg/Conference at Obafemi Awolowo University, Ile-Ife, Nigeria. 21st – 24th November, 2021 (**Physical attendance**)
7. 12th Annual Conference of Mycological Society of Nigeria (MYCOSON) at Federal University of Technology, Akure, Nigeria. 24th – 27th October, 2021. **Paper Presented:** Substrate and metabolite characterization of *Amanita cokeri* (a poisonous suspect): first report from a forest reserve in Ilesa, Osun State, Nigeria (**Oral**)
8. DAAD Alumni Event at Obafemi Awolowo University, Obafemi Awolowo University, Ile-Ife, Osun State, Nigeria. 28th – 31st March, 2021 (**Physical attendance**)
9. Global Engagement Meeting for United Kingdom Research Innovation (UKRI) International Development Peer Review College Members. 30th November – 2nd December, 2020.
10. United Kingdom Research Innovation (UKRI) GCRF Global Engagement Meeting in Bangkok, Thailand. 12th – 14th February 2019 (**Physical attendance**)
11. Microbial Genomic and Surveillance Workshop, Osogbo at the Osun State University, Osogbo, Nigeria, July 2nd - 4th, 2018. (**Local Organizing Committee & Physical attendance**)
12. Research Council United Kingdom (UK) GCRF Global Engagement Meeting in Delhi, India. 7th – 9th November 2017 (**Physical attendance**)
13. 6th Infection Control Africa Network (ICAN) Congress at the Indaba Hotel and Conference Centre, Fourways, Johannesburg, South Africa, 25th to 28th September, 2016. **Paper presented:** Studies on multidrug-resistant *Escherichia coli* isolates recovered from selected rivers in Osun State, Southwestern Nigeria: a public health concern (**Poster**).
14. 6th Infection Control Africa Network (ICAN) Congress at the Indaba Hotel and Conference Centre, Fourways, Johannesburg, South Africa, 25th to 28th September, 2016. **Paper presented:** Multiple antibiotic resistance indexing of *Escherichia coli* isolates from freshwater environments of Ebonyi State, Southeast Nigeria: implications for public health (**Poster**).

b. Local

15. 16th International Conference of the Nigerian Young Academy at Lagos State University, Lagos, Nigeria. August 16th - 20th, 2026. **Paper Presented:** Antifungal resistance pattern in aquatic fungal population from Osun State, Southwest Nigeria (**Oral**)
16. 4th International Conference on Water in Africa (ICWA 2025) at the University of Nigeria, Nsukka, Nigeria. March 18th -22nd, 2025. **Paper Presented:** Unveiling an uncommon threat: Occurrence, antifungal resistance phenotypes and virulence potentials of yeast contaminants in groundwater sources of Osun State, Southwest, Nigeria (**Oral**)
17. Humboldt Kolleg/Conference at Adekunle Ajasin University, Akungba-Akoko, Nigeria. 23rd – 25th October, 2023. **Paper Presented:** Multiple antifungal resistance phenotyping and indexing of mould contaminants of groundwaters in a rural community of Osun State, Southwest Nigeria: a matter of public health concern (**Oral**)
18. 8th Annual conference of the Mycological Society of Nigeria (MYCOSON) at the Federal University, Ndufu-Alike, Ikwo, Ebonyi State, Nigeria, 9th – 12th October, 2016. **Paper presented:** A mini review on mycofiltration: Lessons for Nigerian wastewater treatment technology (**Oral**).
19. 38th Annual General Meeting and Scientific Conference of the Nigerian Society for Microbiology (NSM) at the University of Lagos, Akoka, Lagos State, Nigeria, 1st to 5th of September, 2015. (**Attendee**).
20. 26th Annual Conference of the Biotechnology Society of Nigeria at the National Biotechnology Developmental Agency, Abuja, Nigeria, 25th to 29th August, 2014. **Paper presented:** Comparative study of nutrient content of corncob, old newspaper, and wood shred after treating with *Pleurotus florida* fungus (**Oral**).
21. 25th Annual Conference of the Biotechnology Society of Nigeria at the National Open University of Nigeria, Abuja, 26th to 30th August, 2013. **Paper presented:** Comparative cultivation of mushroom (*Pleurotus florida*) on corncob, wood shred, and old newspaper (**Oral**).