

CURRICULUM VITAE

A. GENERAL INFORMATION.

1. **Name:** WAHAB, Abideen Akinkunmi.
2. **Date of Birth:** JUNE 30, 1974
3. **Gender:** Male
4. **Nationality:** Nigerian
5. **State of Origin:** Osun
6. **Local Government Area:** Isokan
7. **Marital Status:** Married.
8. **Names and Ages of Children:** Abdul-Rahman (26 years)
Abdul-Basit (23 years)
Aminat (20 years)
Ibrahim (17 years).
9. **Name, Address and relationship with Next-of-Kin:** Wahab Taibat Kikelomo/6 Peace Estate, Along Abere-Ede Road/Wife.(+2347030700122)
10. **Permanent Contact Address:** Oke's Compound, Ikoyi, Osun State.
11. **E-mail:** abidec1430@yahoo.com
12. **Registration with Research Gates:** Yes
13. **If yes, Provide Link:** [Abideen A Wahab](#)
14. **If No, Why Not?** Not Applicable
15. **Registration with Google Scholar:** Yes
16. **If Yes, Provide Link:** [Abideen WAHAB - Google Scholar](#)
17. **If No, Why Not?** Not Applicable
18. **Cell Phone Number:** +2348034588086.
19. **College/Faculty/Unit** SET/ Basic and Applied Sciences.
20. **Department:** Microbiology.
21. **Position on First Appointment with the University:** Graduate Assistant.
22. **Present Position and Salary (Grade level and step):** Senior Lecturer (CONUASS 5, STEP 4)
23. **Date of Present Position (Promotion/Regrading):** 1st October, 2022.
24. **Is your Appointment Confirmed?** Yes.
25. **If No, why Not?** Not Applicable.
26. **Date of Confirmation of Appointment:** 1st November, 2016.

B. EDUCATIONAL BACKGROUND

Educational Institutions Attended with Dates

- i. University Malaysia Sarawak, Malaysia. 2012 – 2015
- ii. University of Ilorin, Nigeria. 2008 - 2011
- iii. Usman Dan Fodiyo University, Sokoto, Nigeria 1998 – 2000

Academic and Professional Qualifications with Dates /issuing Authority

- i. Ph.D. Microbiology. 2015
- ii. M.Sc. Microbiology. 2011
- iii. B.Sc. (Hons) Microbiology. 2¹ 2000

Other Relevant Qualifications:

- | | | |
|----|---|------|
| i. | NCE Biology/Chemistry, OSSCE, Ila-Orangun | 1996 |
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Honours, Awards and Distinctions

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| i. | Doctoral Staff Fellowship Award | 2007 |
| ii. | TETFund Scholarship for Ph.D | 2012 |
| iii. | ZAMALA Scholarship for International Students, UNIMAS. | 2013 |

Research Fellowship with Dates:

- | | | |
|----|--------------------------------------|-------|
| i. | TETFund Institutional Research Grant | 2015. |
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C. WORK EXPERIENCE OUTSIDE THE UNIVERSITY SYSTEM (Including names and addresses of employers).

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|------|--------------------------------------|-------------|
| i. | HABMASS, Sokoto, Sokoto State. | 1998 – 2000 |
| ii. | Sokoto Cement Primary School, Sokoto | 2002 – 2004 |
| iii. | Ido-Osun High School A, Ido-Osun. | 2006 – 2008 |

D. WORK EXPERIENCE IN OTHER UNIVERSITIES (Indicating names and addresses of employers).

- | | |
|------|---|
| i. | Adjunct Lecturer, Summit University Offa, Kwara State |
| ii. | Adjunct Lecturer, Fountain University, Osogbo, Osun State |
| iii. | Visiting Lecturer, Mercy Medical University, Iwarra Iwo, Osun State |
| iv. | Sabbatical Staff, Fountain University, Osogbo, Osun State |

E. WORK EXPERIENCE IN OSUN STATE UNIVERSITY, OSOGBO, NIGERIA:**Department of Microbiology:**

Graduate Assistant	2007-2011
Assistant Lecturer	2011-2015
Lecturer II	2015-2019
Lecturer I	2019-2022
Senior Lecturer	2022 till date

F. CO-CURRICULAR PROFESSIONAL EXPERIENCE –

Service to other Universities –

Adjunct Lecturer at Summit University, Offa, Kwara State.

Adjunct Lecturer at Fountain University, Osogbo, Osun State

Visiting Lecturer at Mercy Medical University, Iwarra-Iwo, Osun State.

Reviewer for Journals –

Serves as a reviewer to

1. Uniosun Journal of Engineering and Environmental Sciences
2. Fountain Journal of Natural and Applied Sciences
3. International Journal of Energy and Water Resources (Springer)

G. MEMBERSHIP OF PROFESSIONAL BODIES

Member, Nigerian Society for Microbiology (NSM).

Member, American Society for Microbiology (ASM).

Member, Mycological Society of Nigeria (MYCOSON)

H. SERVICE: University

- (i) Member, University Senate, August 2021 to date.
- (ii) Member, Faculty Academic Board Committee, 2019 till date
- (iii) Member, College of SET Management Board, 2022 till date
- (iv) Member, College of SET Academic Board, 2022 till date
- (v) Member, HRDLL Board Committee, 2019 to 2021
- (vi) Member, Faculty Postgraduate Board Committee, 2022 till date
- (vii) Member, College of SET Postgraduate Board Committee, 2022 till date
- (viii) Member, Postgraduate College Board Committee, 2022 till date
- (ix) Member, Undergraduate Research Committee, 2024 till date
- (x) Member, Central Journal Verification Committee, 2024 till date
- (xi) Chairman, Departmental Academic Board Committee, 2021 till date

Department:

- i. Examination officer 2011-2012.
- ii. Seminar Coordinator 2015-2018.
- iii. Examination/Time-table Coordinator 2015-2018.
- iv. Secretary, Academic Review Board 2016-2018
- v. Coordinator Part-time Programme 2017-2021
- vi. Departmental Coordinator, Microbiology 2021 till 2022
- vii. Level Adviser to 400 Level students, Department of Microbiology, 2022/2023 session, Osun State University.
- viii. Acting Head of Department, Microbiology 2022-2025
- ix. Deputy Director, Centre for Part-Time and Advanced Studies (CPAS) 2026 till date

Community:

- i. Contributed to Ogidan Grammar School Roofing Project
- ii. Jos/Haiti fund raising.

iii Contribution to Uniosun access road project

(xii) **National:**

- i. National youth service corps (2002/2003).
- ii. Supervisor; National Population Commission (Census 2006)
- iii. Proctor; JAMB Examination (UTME 2018 till date)

(xiii) **International** Nil.

I. COURSES TAUGHT DURING THE CURRENT ACADEMIC SESSION.

Course Code	Course Title	No of Units
BIO 101	General Biology I	3
BIO 102	General Biology II	3
BIO 202	Biological Techniques	2
MCB 303	Soil Microbiology	3
MCB 307	Mycology	3
MCB 404	Industrial Microbiology	3
MCB 405	Pharmaceutical Microbiology	3
MCB 407	Pathogenic Microbiology	3
MCB 408	Microbial Physiology and Metabolism	3
MCB 701	Advanced Fermentation Technology	3
MCB 704	Advanced Microbial genetics and Molecular Biology	3

J. GRADUATE STUDENTS SUPERVISION (If any):

M.Sc. Student

- i. **Oyebanji Iyanuoluwa Ayobami.** Therapeutic potentials of red pigment from *Taloromyces marneffei* strain SA2AE and its activity on *Macrophomina phaseolina* strain (Completed).
- ii. **Ibrahim-Fattah, Idayat A.** Tuber pathogenicity of *Macrophomina phaseolina* strain 3A, its virulence gene and the ADMET properties of its secondary metabolites (Completed).
- iii. **Afolabi Monioluwa Eunice.** In-vitro screening for antimicrobial activities of leaves of two medicinal plants against multidrug-resistant *Pseudomonas aeruginosa* (On-going)

PhD Student

- i. **Dare, Peter Alabi.** Detection of multidrug-resistance strategies in *Burkholderia* sp. Isolated from Agricultural soil within Osun State University, Osogbo, Nigeria: promising effect of secondary metabolites from *Taloromyces marneffei* as alternative therapy for *Burkholderia* infections. (On-going) **Major supervision**
- ii. **Shittu, Bushola Rukayah.** Isolation of some herbicides resistance microbes from Agricultural soils for modulation of Phosphate trafficking and reduction of Parquet Dichloride uptake. (On-going). **Major supervision**

- iii. **Ajigbewu, Habeebat Olaoniye** - Harnessing *Bdellovibrio bacteriovorus* as a living antibacterial agent against polymicrobial chronic wound infections using Wistar rats as a model (Completed). **Co-supervision**
- iv. **Adeyemo, Kazeem Adekunle**. Effects of *Cytobacillus firmus* suspension on the hydraulic barrier performance of soil underlying active municipal solid waste dumpsite. (completed) **Co-supervision**
- v. **Efunwole, Omonike Omolade**: Antibiofilm Potential, GC-MS and Molecular Docking of Extracts of selected chewing sticks against *Streptococcus mutans* in Dental Caries. (Completed) **Co-supervision**

K. PUBLICATIONS

- i. Books (authored/co-authored): Nil.
- ii. Books (edited/co-edited): Nil.
- iii. Monographs: Nil.
- iv. Chapters in Books: Nil.
- v. **Articles in Learned Journal:**
 - 1. **Abideen A. Wahab.**, Alabi Peter Dare., Iyanuoluwa, Ayobami Oyebanji., Rukayya Bushola Shittu and Ibrahim Omobolaji Adeyemo (2026). Antagonistic and antibacterial activities of *Talaromyces marneffe* SA2a and its purpuride pigment against plant and human pathogens. *Biotechnology for the Environment*, 3:9. <https://doi.org/10.1186/s44314-026-00043-> Published by Springer Nature. (Offshore)
 - 2. Omotayo O. Oyedara , Sunday O. Olaniyan., **Abideen A. Wahab** , Waidi F. Sule., Sandra O. Onakhinor , Babafemi S. Ajisebiola , Folasade M. Adeyemi, Temidayo O. Elufisan , Sunday B. Akinde and Monsuru A. Adeleke (2026). Culturable microbiota of reared mosquito fauna in Osogbo, Nigeria and their potential biological roles: a molecular insight. *BMC Research Notes*, 19:258 <https://doi.org/10.1186/s13104-026-07832-4>. Published by Springer Nature. (Offshore)
 - 3. Alabi Peter Dare., **Abideen Akinkunmi Wahab.**, Nana Aishat Yusuf-Omoloye., Waidi Folorunso Sule., Folasade Muibat Adeyemi., Esther Iyanuoluwa Fatoye., Tajudeen David Garuba and Favour Tawa Hassan (2026). Detection of biofilm formation and antibiotic resistance genes in multidrug-resistant *Burkholderia* sp. isolated from agricultural soil. *Bulletin of the National Research Centre*, 50;73. <https://doi.org/10.1186/s42269-026-01463-2>. Published by Springer. (Offshore).
 - 4. **Abideen Akinkunmi Wahab.**, Alabi Peter Dare, Nana Aishat Yusuf-Omoloye and Ibrahim Omobolaji Adeyemo (2026). Detection of calcium carbonate precipitation genes and GC-MS characterization of secondary metabolites of *Cytobacillus firmus* for in silico antifungal activities. *Biologia*, 81:212 <https://doi.org/10.1007/s11756-026-02295-1>. Published by Springer. (Offshore).

5. Folasade Muibat Adeyemi., Esther Abiodun Akinlade., Nana Aishat Yusuf-Omoloye., Habeebat Ajigbewu., Alabi Peter Dare., **Abideen Akinkunmi Wahab.**, Omotayo Opemipo Oyedara., Habeeb Salman Isiaka and Alimat Olamide Usamat (2025). Carbapenem-resistance in *Acinetobacter baumannii*: prevalence, antibiotic resistance profile and carbapenemase genes in clinical and hospital environmental strains. *BMC Infectious Diseases*, 25:786 <https://doi.org/10.1186/s12879-025-11169-x>. Published by Springer. (Offshore)
6. ***Wahab, A.A.**, Dare, A.P., Shittu, R.S., Anate, M.O and Akande, R.O (2025). Optimization of Pigment Production by *Rhodotorula mucilaginosa* Strain A2J2 Isolated from Soil for Promising Application in Textile and Food Industries. *Uniosun Journal of Engineering and Environmental Sciences*, 1(7): 70-81. DIO: 10.36108/ujees/5202.70.0170. Published by Faculty of Engineering, Uniosun. (Onshore)
7. ***Wahab, A.A.**, Idayat Abiodun Ibrahim-Fattah., Peter Alabi Dare., Folasade Muibat Adeyemi., Omotayo Opemipo Oyedara and Nana Aisha Yusuf-Omoloye (2024). Tuber Pathogenicity of *Macrophomina phaseolina* strain 3A isolated from rotten cassava tuber from farmlands in Osogbo, Osun State, Nigeria, its virulence genes and ADMET properties. *Molecular Biology reports*, 51(1):882. <https://doi.org/10.1007/s11033-024-09745-6> Published by Springer. (Offshore)
8. ***Wahab, A.A.**, Jimoh, M.A., Olatunji, O.A., Adegbite-Badmus, M.K., Adeyemi, F.M., Yusuf-Omoloye, N.A., Ogunlana, O.E and Adekunle, O.C (2024). Antimicrobial Potency and Phytochemical contents of three common Nigeria Medicinal Plant's leaf extracts. *Uniosun Journal of Engineering and Environmental Sciences*, 6(01):26-36. DIO: 10.36108/ujees/4202.60.0130 (Onshore)
9. ***Yusuf-Omoloye, N.A.**, Adeyemi, F.M., Sule, W.F., Azeez, L.A., Oyedara, O.O., **Wahab, A.A.**, Ajigbewu, O.H and Agbaje, Lateef (2024). Green-synthesis, characterization, and antibacterial activity of Azanza garckeana seed extract silver nanoparticles against vancomycin-resistant Enterococci. *Next Nanotechnology*; 6, 100035. <https://doi.org/10.1016/j.jnxxnano.2023.100035>. (Published by Elsevier). (Offshore)
10. ***Adeyemi F.M.**, Oyedara O.O., **Wahab A.A.**, and Akinde S.B. (2023). ES β L and M β L production in Gram-Negative bacteria isolated from HIV seropositive individuals. *Avicenna Journal of Clinical Microbiology and Infection*. 10(1): 1-8. doi: 10.34172/ajcmi.2023.3394. (Published by Hamadan University of Medical Sciences, Iran). (Offshore)
11. ***Wahab, A.A.**, Akinleye, G.O., Dare, A.P., Yusuf-Omoloye, N.A., Adeyemi, F.M (2023). Assessment of crude extracts of *Pleurotus pulmonarius* for larvicidal efficacy against female anopheles mosquito larvae. *Nigerian Journal of Ecology*; 19(2): 96-110. ISSN: 1116-753X (Print); E-ISSN: 2955-084X (Online). Published by Ecological Society of Nigeria. (Onshore)

12. ***Wahab, A.A.**, Oyebanji, I.A., Yusuf-Omoloye, N.A., Ajigbewu, H.O., Adeyemi, F.M and Dare, A.P (2023). Water Purification and Antimicrobial efficacy of *Moringa oleifera* dried and macerated seed. *Nigerian Journal of Ecology*; 19(2): 69-81. ISSN: 1116-753X (Print); E-ISSN: 2955-084X (Online). Published by Ecological Society of Nigeria. (Onshore)
13. *Nana-Aishat Yusuf-Omoloye, Adeyemi, F.M. Sule, W.F, Olaoniye, H.A, Adegbite-Badmus, M.K, Oyafajo, L.A, Oyedara, O.O, **Wahab, A.A** and Akinde, S.B (2023). Culture-dependent and Molecular characterization of Vancomycin-Resistant *Enterococci* from clinical, food and water samples across Osun State, Southwest, Nigeria. *Scientific African*; 21:181-190. <https://doi.org/10.1016/j.sciaf.2023.e01813> (Elsevier). (Offshore)
14. **Wahab, A.A**, Adeyemi, F.M, Dare A.P, Ozabor, P.T, Badmus, M.K, Ogunlana, O.E and Akinde, S.B (2022). Assessment of Total Petroleum Hydrocarbon Degradation by Endophytic Fungi Isolated from Water Hyacinth (*Eichhornia crassipes*). *Uniosun Journal of Engineering and Environmental Sciences*, 4(01):164-171. DIO: 10.36108/ujees/2202.40.0171. Published by Faculty of Engineering and Environmental Sciences, Osun State University. (Onshore)
15. Adeyemi, F.M, **Wahab, A.A**, Oyelami, C.A, Oyedara, O.O, Titilawo, M.A, Adebunmi, A.A and 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*; [//doi.org/10.1007/s42108-022-00180-6](https://doi.org/10.1007/s42108-022-00180-6). Published by Springer. (Offshore)
16. Olaitan, Janet O, Ozabor, T.M, **Wahab, A.A** and Odunola, Oluwajide (2021). Survey and Fourier Transform Infrared Microscopy (FTIR) analysis of yeast isolated from dairy products in Osogbo metropolis. *Food and Environmental Safety, Journal of food Engineering*; 10(4): 343-351. <https://dio.org/10.4316/fens.2021.037>. Published by Stefan cel Mare University, Suceava, Romania. (Offshore)
17. Rufai, M.A, **Wahab, A.A**, Fasasi, K.A, Adeshina, Q.O and Awotidebe, M.T (2021). Biocidal Efficacy of Heterorhabditis bacteriophora against the African armyworm (Spodoptera exempta) towards pest control. *Pakistan Journal of Nematology*, 39(1): 41-45. <http://dx.dio.org/10.17582/journal.pjn/20>. (Offshore)
18. Muhammad, Rufai, **Wahab, A.A**, Quadri, O. Adeshina, J.C. Umehokoh and Ologunro, O.O (2020). Occurrence of entopathogenic nematodes in Osun State, Southwestern Nigeria. *Pakistan Journal of Nematology*; 38(1): 37-43. <http://dx.dio.org/10.18681/pjn/v38.i01>. Published by Pakistan Society of Nematologists. (Offshore)
19. Folasade M. Adeyemi, Rashidat R. Adeboye, Adetoun A. Adebunmi, Nana-Aishat Yusuf, **Wahab, A.A** (2020). Detection of T3SS, oprI, aprA, and pvdA Genes in Clinical Isolates of Pseudomonas aeruginosa obtained from Wound Samples. *Pan African Journal of Life Sciences*; 4 (1): 17-24. Published by Faculty of Basic Medical Sciences, LAUTECH, Ogbomosho. (Onshore).

20. Adeyemi F.M, Akinde S.B, Oyedara O.O, **Wahab, A.A**, and Jimoh S.O (2019). Investigation of *Escherichia coli* Distribution in drinking water wells close to septic tanks in densely populated areas of Osogbo, Osun State, Nigeria. *Nigerian Journal of Microbiology*, 33(2): 4403-4414. Published by Nigerian Society for Microbiology. (Onshore)
21. **Wahab, A.A**, Awang Ahmad Sallehin awing Husaini, Adeyemi F.M (2019). Biosorption of Copper II ions in aqueous solution using Biomass of *Fusarium equiseti* KR706303 isolated from Mangrove soil environment. *Nigerian Journal of Microbiology*, 33(2): 4559-4570. Published by Nigerian Society for Microbiology. (Onshore)
22. Luqmon Azeez, Agbaje Lateef, **Wahab, A.A**, Muhammed A. Rufai, Amadu K. Salau, Ebenezer I.O Ajayi, Mercy Ajayi, Maryam K. Adegbite, Basirat Adebisi (2019). Phytomodulatory effects of silver nanoparticles on *Corchorus olitorius*: Its antiphytopathogenic and hepatoprotective potentials. *Plant physiology and Biochemistry*, 136, 109-117. <https://doi.org/10.1016/j.plaphy.2018.12.006>. Published by ELSEVIER. (Offshore)
23. L. Azeez, A. Lateef, **Wahab, A.A**, A.L Adejumo, and K. Raji (2019). Comparative Effects of silver nanoparticles, sucrose and sodium chloride as osmotic solutions for Tomato slices: Antioxidant activity, Microbial quality and Modelling with Polynomial Regression Model. *South Africa Journal of Chemistry*, 72, 21-31. <https://doi.org/10.17159/0379-4350/2019/v72a4>. Published by South Africa Chemical Institute. (Offshore)
24. Abidoye L.K., Mahdi F.M., Idris M.O., Alabi O.O., and **Wahab, A.A** (2018). ANN-derived equation and ITS application in the prediction of dielectric properties of pure and impure CO₂. *Journal of Cleaner Production*, 173, 123-132. <https://doi.org/10.1016/j.jclepro.2017.12.013> Published by ELSEVIER
25. **Wahab, A.A**, Awang A.S.A H., Azham Z., Tay M.G. And Adeyemi F.M (2017). Biosorption of lead(II) ion using *Penicillium citrinum* KR706304 isolated from the mangrove soil environment of Southeast Borneo. *Ife Journal of Science*, 19 (2): 341-351. <https://dx.doi.org/10.4314/ij.s.v19i2.14>. Published by Obafemi Awolowo University, Ile-Ife. (Onshore)
26. **Wahab, A.A**, Ahmad H., Azham Z., Meng Guan. And Hairul R (2015). Factors affecting toxic lead (II) ion bioremediation by *Fusarium equiseti* isolated from the mangrove soil environment of Southeast Borneo. *Malaysian Journal of Microbiology*, 11(Special issue): 215-222. Published by Malaysian Society for Microbiology. (Offshore)
27. Kolawole, O.M, **Wahab, A.A**, Adekanle, D.A, Sibanda, T & Okoh, A.I (2012). Seroprevalence of hepatitis B surface antigenemia and its effects on haematological parameters in pregnant women in Osogbo, Nigeria. *Virology Journal*, 9:317. doi:10.1186/1743-422X-9-317. Published by BioMed Central. (Offshore)
28. Adeleke, M.A, Oyebamiji, A.A, Hassan, A.O, Adeyi, A.O, **Wahab, A.A**, Olaitan, J.O, & Olatunde, G.O (2012). Biolarvicidal efficacies of entomopathogenic microorganisms isolated from the breeding sites of

mosquitoes in Osogbo town, southwestern Nigeria. *African Entomology* 20(2): 390-394. Published by Entomological Society of Southern Africa. (Offshore)

29. **Wahab, A.A.**, Adeyemi, F.M, Kolawole, O.M and Anjorin, E.O (2011). Seroprevalence of hepatitis B surface antigenemia and its associated risk factors among pregnant women in LAUTECH Teaching Hospital, Osogbo. *Annals of Science, Engineering and Technology, Osun State University, Osogbo*. 1(1): 31-36. Published by Osun State University. (Onshore)

vi. Review Articles: Nil.

vii. **Refereed Conference Proceedings:**

- i. **Wahab A.A**, Ahmad H., Azham Z., Meng Guan. And Hairul R (2014). Removal of copper (II) ions from aqueous solutions by an isolated fungal strain from mangrove soil environment in the Southeast Borneo. 32nd Symposium of the Malaysian Society for Microbiology (MSM 2014), Terengganu Equestrian Resort (TER), Terengganu, Malaysia; 154-158

viii. **Conference Abstract:**

- i. **Wahab A.A**, Ahmad H., Azham Z., Meng Guan. And Hairul R (2013). Toxic lead (II) ions removal by an isolated fungal strain from mangrove soil environment in the Southeast Borneo. *International congress of the Malaysian Society for Microbiology* (ICMSM 2013), Langkawi Lagoon Resort, Kedah, Malaysia.

ix. Book Reviews: Nil.

x. Technical Reports: Nil.

xi. Patents and Inventions: Nil.

xii. Online Journal Articles (for journals with no hard copies only): Nil.

L. CURRENT RESEARCH ACTIVITIES

Non-Funded/Self-Sponsored Research:

- (i) Seroprevalence of Hepatitis B surface Antigenemia among Pregnant Women Attending Antenatal clinic in Ladoke Akintola University Teaching Hospital, Osogbo.
- (ii) Bioremediation of heavy metals from e-waste contaminated sites using indigenous fungal isolate.
- (iii) The use of endophytic fungi for bioremediation of sites polluted with petroleum products.
- (iv) The use of fungi as a bio-control agent.

M. CONFERENCES ATTENDED (Indicating titles of papers presented if any).

1. ECOSON 2023: Annual conference of Ecological Society of Nigeria held at Osun State University, Osogbo, 5th-9th November, 2023. Assessment of crude extract of *Pleurotus pulmonarius* for biolarvicidal efficacy against female anopheles mosquito larvae.

2. 12th Annual Conference of Mycological Society of Nigeria held at the Federal University of Technology, Akure, Ondo State, Nigeria. (FUTA 2021). Assessment of PAHs Degradation of Endophytic Fungi isolated from Water Hyacinth (*Eichhornia crassipes*)
3. 1st Annual Zonal Symposium of the Nigerian Society for Microbiology, South West Zone held at King University, Odeomu, Osun State. 5-8 December, 2016
4. 32nd Symposium of the Malaysian Society for Microbiology (MSM 2014), Teregganu Equestrian Resort, Malaysia. Removal of copper (II) ions from aqueous solutions by an isolated fungal strain from mangrove soil environment in the Southeast Borneo.
5. International Congress of the Malaysian society for Microbiology 2013 (ICMSM 2013). 12-15 December 2013, Langkawi Lagoon Resort, Malaysia.
6. 34th Annual Conference of Nigerian Society for Microbiology held at the Federal University of Technology, Owerri, Imo State, Nigeria. (FUTO, 2010) (October, 2010 2009).
7. 33rd Annual Conference of Nigerian Society for Microbiology (UNIOSUN 2009) held at the Osun State University, Osogbo, Osun State, Nigeria. (November, 2009).

N. EXTRA-CURRICULAR ACTIVITIES

Reading, Travelling and Praying.

O. ANY OTHER RELEVANT INFORMATION –

Nil.

P. SUMMARY OF CONTRIBUTION TO KNOWLEDGE

As a Microbiologist with a particular interest in Applied Microbiology and Environmental Biotechnology (bacterial and fungal applications at various aspects of human endeavours), my research focuses on studies of fungi and bacteria of environmental origin, assessing their potential applications in pharmaceutical, food, Agriculture and environmental sanitation.. My research scope also covers the screening and detection of hydrolytic enzymes and identification of virulence and resistance genes in environmental microorganisms; as well as the screening of bioactive natural compounds from indigenous plants and environmental microbes against multidrug-resistant pathogenic fungi and bacteria. My team is presently working with other collaborators on the isolation of *Burkholderia pseudomallei*, and other species from soil samples (the causative agent of melioidosis). In addition, we are also attempting to isolate predatory bacteria (*Bdellovibrio bacteriovorus*) from environmental samples and check their potential use in the treatment of antibiotic-resistant bacterial pathogens in polymicrobial infections of surface and chronic wounds.

Specific studies contributing to scientific knowledge are as follows:

Studies on water quality and water treatment

In a comprehensive study, the hydrology survey and water quality assessment in three towns in Osun State reported that the analysed water samples had most of their parameters within the stipulated World Health Organization guidelines. However, the poor microbiological quality of all water samples was evident, making the water unfit for drinking as well as for various other domestic and agricultural purposes without adequate treatment. We concluded that there

is a need for constant monitoring of water quality and the need for proper water treatment policies by the relevant government bodies. Our research efforts also used the seed of *Moringa oleifera* for water purification with successful results **[articles 8 and 11]**

Viral hepatitis B in pregnant women

A study of blood-borne hepatitis B viruses conducted among apparently healthy pregnant women in Ladoke Akintola University Teaching Hospital, Osogbo, Nigeria to investigate the circulation of the hepatitis B virus, suggests endemicity and a higher occurrence amongst multigravida than primigravida. Risk factors identified include unprotected sexual intercourse, presence of tattoos and tribal marks, history of previous abortion, and absence of HBV vaccination **[articles 24 and 26]**

Mycology/study of biosorption / degradative potentials of fungal agents

The use of biological entities (fungi, bacteria, and algae) is a potentially cost-effective and environmentally friendly technique for heavy metal pollution sequestration. Studies aimed at isolating efficient metal-tolerant fungi and measuring their capability for metal removal from aqueous solution were conducted. The fungal strain *Penicillium citrinum* KR706304 and *Fusarium equiseti* KR706303 were identified and suggested as the most lead and copper tolerant respectively, implying their prospective uses as biosorbent for heavy metal removal. Another study assessed the ability of fungal endophytes from water hyacinth leaves to degrade total petroleum hydrocarbons. The results revealed that all the fungi were able to utilize hydrocarbons for their growth, at different rates. The results suggest endophytic fungi as potential hydrocarbon biodegraders that could be used in bioremediation processes **[articles 17, 21, 22 and 23]**

In the field of Applied Microbiology, my focus is on the isolation and characterization of microbes capable of pigment production and their applications in biotechnological industries. The research is on-going in this area. Our research team also assessed the crude extracts of *Pleutorus pulmonarius* for larvicidal efficacy against female anopheles larvae. It was observed that the crude extracts has larvicidal effects on female anopheles mosquito larvae. The study concluded that the purified extracts could be as Bio-control agents against female anopheles mosquitoes **[articles 1 and 7]**



06/08/2026

WAHAB, Abideen Akinkunmi (Ph.D.)

Date