

Isaac Ayodeji ADESINA, Ph.D.

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EDUCATION AND QUALIFICATIONS

- 2010 – 2016 **Doctor of Philosophy (Ph.D.), Food Microbiology**
Federal University of Technology, Akure, Ondo State, Nigeria
Thesis: Assessment of Preservative Efficacy of Bacteriocin Produced by Lactic Acid Bacteria Isolated from Selected Traditionally Fermented Products
- 2007 – 2009 **Master of Science (M.Sc.), Food and Industrial Microbiology**
University of Benin, Benin-City, Edo State, Nigeria
Thesis: Biocontrol of Postharvest Blue Mold of Orange Fruit (*Citrus sinensis*) by Screened Microbial Antagonists
- 2001 – 2005 **Bachelor of Science (B.Sc.), Microbiology**
Ambrose Alli University, Ekpoma, Edo State, Nigeria
Research Project: Effect of NaCl, Mg²⁺ and Serum on Beta-lactamase Production by Staphylococci

WORK EXPERIENCE

- October 2023 – Present Senior Lecturer
Department of Microbiology,
University of Medical Sciences, Ondo City, Ondo State
- October 2020 – Sept. 2023 Lecturer I
Department of Microbiology,
University of Medical Sciences, Ondo City, Ondo State
- January 2017 – Sept. 2020 Lecturer II
Department of Biological Sciences,
University of Medical Sciences, Ondo City, Ondo State
- October 2014 – December 2016 Lecturer II
Department of Science Laboratory Technology,
Rufus Giwa Polytechnic, Owo, Ondo State
- December 2011 - Sept. 2014 Lecturer III
Department of Science Laboratory Technology,
Rufus Giwa Polytechnic, Owo, Ondo State
- February – November, 2011 Assistant Lecturer
Department of Science Laboratory Technology,
Rufus Giwa Polytechnic, Owo, Ondo State
- September 2006 – August 2007 National Youth Service Corp
Alpha Medical Diagnostic Laboratory, Anara,
Isiala-Mbano L.G.A, Imo State

MEMBERSHIP OF PROFESSIONAL SOCIETIES

- Member, Nigerian Society for Microbiology (NSM)
- Member, Nigerian Institute of Food Science and Technology (NIFST)
- Member, American Society of Microbiology (ASM)
- Member, British Society for Antimicrobial Chemotherapy (BSAC)
- Member, Nigerian Society for Experimental Biology (NISEB)
- Affiliate Member, Microbiology Society

AWARDS

- Award of Excellence for best poster presentation at the University of Benin, Faculty of Life Sciences' 1st Annual Research Conference held between 29th November and 1st December, 2022.
- Third best oral paper award for the Abstract OP14 at the 8th Nigerian Young Academy (NYA) Conference held between 28th and 30th August, 2018.

TRAINING COURSES AND WORKSHOPS ATTENDED

- Course on “Advanced Digital Empowerment Programme for Tertiary Institutions on Data Analysis using SPSS and Ms Power BI” organized by Digital Bridge Institute at the University of Medical Sciences, Ondo City, Ondo State, Nigeria (17th – 21st April, 2023).
- Two-day Animal Care and Use in Research, Education and Testing (ACURET) – UNIMED Ondo Animal Ethics Training Workshop. University of Medical Sciences, Ondo City, Nigeria (5th – 6th December, 2022).
- Two-day Workshop for Lecturers of Postgraduate Students organized by Postgraduate School, University of Medical Sciences, Ondo City, Nigeria (24th – 25th November, 2022).
- International Centre for Genetic Engineering and Biotechnology (ICGEB) Course on “Laboratory Techniques in Molecular Biology and Enzyme Engineering for Sustainable Bioenergy: from Theory to Bench.” Federal University of Technology, Akure, Nigeria (26th – 30th September, 2022).
- UNIMED Library Research Workshop for Academic Staff held at E-Library, Odosida Campus (22nd June, 2022)
- Workshop on “Pedagogy Teaching and Learning in Higher Education”. University of Medical Sciences, Ondo City, Nigeria (23rd - 25th November, 2021).
- Grantsmanship Workshop Series 2 titled “Developing a Research Proposal and Budget” organised by the Central Office for Research and Development (CORD). University of Medical Sciences, Ondo City, Nigeria (29th – 30th November, 2021).
- 3rd CERHI-UNIBEN AREF Research Leadership Development Workshop on Research Communication. University of Benin, Benin City, Nigeria (20th – 24th September, 2021).
- Grantsmanship Workshop Series 1 titled “Identifying a Compelling Research Question and Developing the Concept Note” organized by the Central Office for Research and Development (CORD). University of Medical Sciences, Ondo City, Nigeria (15th September, 2021).
- Workshop on “Ethical Issues in Academia, Research, and Publications” held at University of Medical Sciences, Ondo City, Nigeria (19th May, 2021).
- Research4Life Massive Open Online Course (MOOC) on “Global Access to Research in Health, Food and Agriculture, Environment, Innovation and Law” funded by Research4Life and the Food and Agriculture Organization of the United Nations (FAO) (20th April – 24th May, 2020).

- Workshop on “Introduction to Bioinformatics and its Application in Biomedical Research” organized by the African Centre of Excellence for Genomics of Infectious Diseases (ACEGID), Redeemer’s University, Ede held at University of Medical Science, Ondo City, Nigeria (25th – 29th November, 2019).
- FUTA Modern Biotechnology Symposium on “Modern Biotechnology and the Society”. The Federal University of Technology, Akure, Ondo State, Nigeria (May 28th, 2019).
- 1st CERHI-UNIBEN AREF Research Leadership Development Workshop. University of Benin, Benin City, Nigeria (May 13th – 17th, 2019).
- Two-Day Regional Workshop titled “Strengthening Innovation Ecosystems in Universities in West and Central Africa” organized by the Centre of Excellence in Reproductive Health Innovation (CERHI). University of Benin, Benin City, Nigeria (April 29th – 30th, 2019).
- Course on “Advanced Digital Appreciation Programme for Tertiary Institutions” organized by Digital Bridge Institute at the University of Medical Sciences, Ondo, Ondo State, Nigeria (November 26th – 30th, 2018).
- ASM Workshop on Scientific Writing and Publishing. Joseph Ayo Babalola University, Ikeji Arakeji, Osun State, Nigeria (May 1st, 2018).
- Course on “Data Analysis Using Statistical Package for Social Sciences (SPSS 23)” organized by Digital Bridge Institute at the University of Medical Sciences, Ondo, Ondo State, Nigeria (November 20th – 24th, 2017).
- Workshop on “Pedagogy and Integrated Medical and Dental Curriculum at the University of Medical Sciences, Ondo, Ondo State, Nigeria (July 6th – 7th, 2017).
- Hands-on training workshop on “Molecular Biology: The Backbone of Evidence-based Medicine”. Nigerian Institute of Medical Research, Yaba, Lagos State, Nigeria (August 2nd – 7th, 2010).
- Peer Education Training Course on “NYSC Reproductive Health and HIV/AIDS Prevention”. (Project supported by UNICEF), Imo State (September, 2006).
- Computer Training Course on “Microsoft office (Word & Excel) and CorelDraw”. PCconfig Ltd-Training Academy, Owo, Ondo State (June – August, 2006).

PUBLICATIONS

Published Articles in learned journals:

- Adesina, I. A.**, and Oluwafemi, Y. D. (2022). Antibacterial activity of cell-free culture supernatant of bacteriocinogenic *Pediococcus pentosaceus* IO1 against *Staphylococcus aureus* inoculated in fruit juices. *Journal of Food Quality and Hazards Control*, 9, 130-136. <https://doi.org/10.18502/jfqhc.9.3.11151>
- Ekundayo, T. C., Igere, B. E., Iwu, C. D., Oluwafemi, Y. D., Tiamiyu, A. M., **Adesina, I. A.**, Anuoluwa, I. A., Ekundayo, E. A., Bello, O. O., Olaniyi, O. O., and Ijadeniyi, O. A. (2022). Prevalence of *Laribacter hongkongensis* in food and environmental matrices: A systematic review and meta-analysis. *Food Microbiology*, 107, 104089. <https://doi.org/10.1016/j.fm.2022.104089>
- Oyeyemi, O. T., Oyeyemi, I. T., Alamukii, N. A., Kone, J. K., Oyerinde, O. R., Anuoluwa, I. A., Ovuakporie-uvo, O. O., **Adesina, I. A.**, Oluwafemi, Y. D., Ogoanah, S. O., and Tiamiyu, A. M. (2021). Cryptosporidium and colorectal cancer: A review of epidemiology and possible association. *Forum of Clinical Oncology*, 12(2), 1-11. <https://doi.org/10.2478/fco-2021-0009>
- Tiamiyu, A. M., and **Adesina, I. A.** (2021). Benefits and risks of aquaculture foods in primary health care: A mini-review. *Journal of Food Quality and Hazards Control*, 8(2), 52–56. <https://doi.org/10.18502/jfqhc.8.2.6468>

- Adeyemi, A. F., Afolabi, A. O., Usman, Z. A., and **Adesina, I. A.** (2021). Solvents fractionation, characterization and evaluation of antimicrobial activities of beeswax from *Apis mellifera*. *International Journal of Research and Innovation in Applied Science*, 6(4): 82–89. <https://doi.org/10.51584/IJRIAS.2021.6404>
- Oyeyemi, O. T., Oladoyin, V. O., Okunlola, O. A., Mosobalaje, A., Oyeyemi, I. T., Adebimpe, W. O., Nwuba, R. I., Anuoluwa, I. I., Tihamiyu, A. M., Ovuakporie-uvo, O. O., **Adesina, I. A.**, Olatunji, B. P., Kone, J. K., Oluwafemi, Y. D., Obajaja, C. O., and Ajiboye, A. A. (2021). COVID-19 pandemic: An online-based survey of knowledge, perception, and adherence to preventive measures among educated Nigerian adults. *Journal of Public Health*, 30(6), 1603-1612. <https://doi.org/10.1007/s10389-020-01455-0>
- Adesina, I. A.**, Oluwafemi, Y. D., and Adebote, V. T. (2020). Probiotic beverage from fluted pumpkin leaf juice fermented with *Pediococcus pentosaceus* IO1. *Annals. Food Science and Technology*, 21(2): 310-314.
- Oyeyemi, O. T., Oyeyemi, I. T., **Adesina, I. A.**, Tihamiyu, A. M., Oluwafemi, Y. D., Nwuba, R. I. and Grenfell, R. R. Q. (2019). Toxoplasmosis in pregnancy: A neglected bane but a serious threat in Nigeria. *Parasitology*, 1–8. <https://doi.org/10.1017/S0031182019001525>
- Esumeh, F. I., Inyang, N. J., **Adesina, I. A.**, Akpe, A. R., Omoigberale, M. N. O. and Igunbor, L. A. (2017). Antibacterial susceptibility and *In vitro* effect of sodium chloride, magnesium ions and serum on Staphylococcal- β -lactamase production in Ekpoma, Nigeria. *Special Bacteria Pathogens Journal*, 3(1): 1-7.
- Falusi, V. O., **Adesina, I. A.**, Aladejimokun, A. O. and Elehinafe, T. R. (2017). Phytochemical Screening and Antibacterial Activity of Methanolic Extracts of Ripe and Unripe Peels of Mango (*Mangifera indica* L.). *Journal of Applied Life Sciences International*, 14(3): 1–7.
- Adesina, I. A.**, Ojokoh, A. O. and Arotupin, D. J. (2017). Inhibitory properties of lactic acid bacteria against moulds associated with spoilage of bakery products. *Journal of Advances in Microbiology*, 4(3): 1-8.
- Adesina, I. A.** and Enerijiofi, K. E. (2016). Effect of pH and heat treatment on bacteriocin activity of *Pediococcus pentosaceus* IO1, *Tetragenococcus halophilus* PO9 and *Lactobacillus cellobiosus* BE1. *SAU Science-Tech Journal*, 1(1): 113-118.
- Adesina, I. A.** and Adebote, V. T. (2016). Microbial population of cereal-based fermented food products sold in selected Local Government Areas of Ondo State, Nigeria. *Journal of Science Food and Hospitality*, 3/4(1): 90-98.
- Borokini, F., Lajide, L., Olaleye, T., Boligon, A., Athayde, M. and **Adesina, I.** (2016). Chemical profile and antimicrobial activities of two edible mushrooms (*Termitomyces robustus* and *Lentinus squarrosulus*). *Journal of Microbiology, Biotechnology and Food Sciences*, 5(5): 416-423.
- Adesina, I. A.**, Ojokoh, A. O. and Arotupin, D. J. (2016). Screening, identification and antibiotic susceptibility pattern of bacteriocin-producing lactic acid bacteria isolated from selected traditionally fermented products. *British Microbiology Research Journal*, 11(1): 1-9.
- Adesina, I. A.**, Ojokoh, A. O. and Arotupin, D. J. (2016). Effect of bacteriocinogenic *Pediococcus pentosaceus* IO1 strain and its bacteriocin on growth performance and intestinal microbiota of albino rat. *British Microbiology Research Journal*, 13(2): 1-8.
- Aladejimokun, A. O., **Adesina, I. A.**, Falusi, V. O. and Edagbo, D. E. (2014). Comparative study of antimicrobial potency and phytochemical analysis of methanolic extracts of the leaf and flower of *Luffa cylindrica*. *Journal of Natural Sciences Research*, 4(8): 7-10.
- Adesina, I. A.**, Adebote, V. T., Elehinafe, T. R. and Enerijiofi, K. E. (2013). Growth inhibition of *Aspergillus niger* and *Penicillium italicum* by seed kernel oil from mango (*Mangifera indica* L.). *Journal of Natural Sciences Research*, 3(9): 61 – 64.

- Enerijiofi, K. E. and **Adesina, I. A.** (2013). Isolation of indigenous microbes from diesel contaminated soils in Oluku, Benin-City, Edo State. *Annals of Applied Sciences*, 1(1&2): 17-21.
- Giwa, O. E., Onileke, F. O., **Adesina, I. A.** and Adebote, V. T. (2012). Phytochemical and antimicrobial properties of seed and pulp of monkey cola (*Cola millenii*) on some selected clinical and food-borne isolate. *International Journal of Applied Biology and Pharmaceutical Technology*, 3(3): 390 – 400.
- Emoghene, A. O., **Adesina, I. A.** and Eyong, M. M. (2011). Biocontrol of postharvest blue mold of orange fruit (*Citrus sinensis*) by screened microbial antagonists. *Biological and Environmental Sciences Journal for the Tropics*, 8(1): 123 – 128.

Edited Conference proceedings

- Oluwafemi, Y. D., Oyetayo, V. O., Jeff-Agboola, Y. A., and **Adesina, I. A.** (2017). Phytochemical, antimicrobial and antioxidant potentials of a wild mushroom (*Trametes* species) collected from Bolorunduro, Ondo State, Nigeria. In: *Translating Research into Development: The Role of Women in Science: Proceedings of the 3rd International Conference and Science Exhibition (OWSD-BIU)*, 31st July – 4th August, 2017, Benin-City, Nigeria. pp. 924 – 931.
- Adesina, I. A.**, Ojokoh, A. O. and Arotupin, D. J. (2014). Biopreservative efficacy of bacteriocin-containing cell-free culture supernatant of *Pediococcus pentosaceus* IO1 in baked cake. In J. O. Abu, S. Sule, C. E. Chinma, M. O. Eke and A. I. Sengeve (Eds.), *Food Value Chains: Opportunity for Wealth Creation and Food Security: Proceedings of the 38th Annual Conference and General Meeting of the Nigerian Institute of Food Science and Technology (NIFST)*, 13th – 15th October, 2014, Ikeja, Lagos State, Nigeria. pp. 1 – 2.
- Opawale, B. O., **Adesina, I. A.** and Adebote, V. T. (2012). *In vitro* application of commercial baker's yeast (*Saccharomyces cerevisiae*) as a biocontrol agent against tomato-rot fungi. In D. I. Olorunfemi, C. E. Okaka, C. C. Osubor and A. U. Osagie (Eds.), *Science as a Tool for National Transformation and Development: Proceedings of the 12th Annual Conference of the Nigerian Society for Experimental Biology (NISEB)*, 14th - 17th March, 2012, Benin-City, Nigeria. pp. 48 – 50.

Other Unpublished Papers Read at Conference

- Adesina, I. A.** and Babatunde, V. T. (2022). Preliminary study of plant growth promoting potential of palm wine yeasts (*Saccharomyces* sp. and *Rhodotorula* sp.) in maize and okra seedlings. University of Benin Life Sciences' 1st Annual Research Conference, 29th November – 1st December, 2022, University of Benin, Benin City, Edo State, Nigeria.

RESEARCH INTERESTS

- Food fermentation (Lacto-fermentation of vegetables)
- Food biopreservatives of microbial and plant origin
 - ❖ Bacteriocin production by lactic acid bacteria
 - ❖ Bioactive constituents with antimicrobial potency from fruit peels
- Biocontrol of plant pathogens
- Biofertilizer

EXTRA CURRICULAR ACTIVITIES

- Reading motivational books and listening to music