

## CURRICULUM VITAE

- I** (a) Name: Bukola Christianah Adebayo-Tayo  
(nee Aina)  
(b) Date of birth: 10 December, 1968  
(c) Department: Microbiology  
(d) Faculty: Science
- II** (a) First Academic Appointment: Assistant Lecturer (1 September, 1999)  
(b) Present Post (With Date): Professor (27 March, 20205)
- III** University Education (with dates):  
(a) Ekiti State University, Ado Ekiti 1990-1995  
(b) University of Ibadan, Ibadan 1997-1998  
(c) University of Ibadan, Ibadan 2002-2006
- IV** Academic Qualification (with dates and granting bodies):  
(a) B.Sc. Hons. (Microbiology) (Ekiti State University, Ado Ekiti) 1995  
(b) M.Sc. (Microbiology) (University of Ibadan) 1998  
(c) Ph.D. (Microbiology) (University of Ibadan) 2006
- V** Professional Qualifications and Diplomas (with date): Nil
- VI** Scholarship, Fellowships and Prizes (with dates) in Respect of Undergraduate and Postgraduate Work Only): Nil
- VII** Honours, Distinctions and Membership of Learned Societies:  
(a) South-western Nigeria Mushroom Growers Member  
(b) Society for Applied Microbiology (SFAM), UK Member  
(c) Mycological Society of Nigeria Member  
(d) Nigerian Society for Microbiology Member  
(e) Science Association of Nigeria Member  
(f) American Society for Microbiology Member
- VIII** Details of Teaching/Work Experience:  
(a) Work Experience:  
(i). Assistant Lecturer, Department of Botany and Microbiology, University of Uyo 1 December, 1999 - 2008  
(ii). Lecturer II, Department of Botany and Microbiology, University of Ibadan 1 September, 2008 - 2014  
(iii). Lecturer I, Department of Microbiology, University of Ibadan 1 October, 2014 - 2017  
(iv). Senior Lecturer, Department of Microbiology, University of Ibadan 1 October, 2017 to date
- (b) Teaching Experience:  
I participated in teaching the following courses: Number of lecturers  
Undergraduate Courses:  
MIC 121(Introductory Microbiology) 2008 - 2017 3  
MIC 221 (Introduction to Microbiology) 2008- till date 5  
MIC 231 (Basic Techniques in Microbiology) 2010-2014 3  
MIC 325 (Soil Microbiology) 2008-2009 3  
MIC 307 (Immunology) 2008-2010 3  
MIC 327 (Specialized Techniques in Microbiology) 2010 -2016 3

MIC 391 (Industrial Attachment) 2018-2020	3
MIC 412 (Microbial Genetics) 2008-2010	3
MIC 424 (Microbial Physiology and Metabolism) 2008-2020	4
MIC 403 (Pharmaceutical Microbiology) 2016-2020	3
MIC 430 (Microbial Quality Assurance)	3
MIC 439 (Microbial Biotechnology) 2013-2019	3
MIC 401(Seminar in Microbiology) 2008- till date	18
MIC 491(Research Project) 2008 -2020	18

Postgraduate:

MIC 701 (Research Project)	18
MIC 702 (Literature Review)	18
MIC 712 (Selected Topics in Industrial Microbiology) 2015-2017	4
MIC 721 Bacterial Diversity (2008-210)	5
MIC 723 (Basic Research Methods in Microbiology) 2013-2020	4
MIC 724 (Microbiological Quality Control) 2008-2020	4
MIC 725 (Food/Plant Sanitation) 2018-2020	5
MIC 728 (Dairy Microbiology) 2018-2020	4
MIC 731 (Microbial Biotechnology) 2013-2017	4
MIC 732 (Advanced Microbial Physiology) 2008-2020	4
MIC 733 (Advanced Epidemiology and Public Health) 2019-2020	4

Project Supervision:

Completed:

B.Sc.	81
M.Sc.	62
Ph.D.	8

Ongoing:

B.Sc.	3
M.Sc.	6
M. Phil./Ph.D.	-
Ph.D	3

(c) Administrative Responsibilities

1. Students' Academic Adviser and level registration	2008 - 2016
2. Chairperson, Departmental Welfare Committee	2011 - date
3. Industrial Training Coordinator	2012 - 2014
4. Member, Faculty Time Table Committee	2012 - 2014
5. Member, LOC, Faculty of Science International Conference	2013 - date
6. MSc. Registration Coordinator	2013 - date
7. Coordinator, Registration of Undergraduate	2015 - 2016
8. Member, Finance Committee of the Faculty of Science	2015 - 2017
9. Discipline Contact Lecturer, Microbial physiology and Biochemistry Unit	2016 - date
10. Member, Supply and Store committee	2016 - date
11. Foreign Link Programme Liaison Officer	2016 - date
12. Faculty Representative Farm Management	2017 - 2018

(d) Community Service

1. Member, Departmental Appointment and Promotion Committee for Non- teaching Staff	2017 - date
2. Sub-dean (Biological Science)	2018 - 2021
3. Member, Technical Team (Undergraduate Admission)	2018 - 2021
4. Senate Admission Committee Member (SAC member)	2018 - 2021
5. Alumni Relation Committee Member	2018 - date

- |    |  |             |
|----|--|-------------|
| 6. | Industrial Relation Committee Member             | 2018 - date |
| 7. | Congregation Representative on University Senate | 2017 - date |

### Research Focus

My research focus is on physiology and metabolism of industrial microorganisms with emphasis on the development of starters for fermented foods; production of bio-molecules such as exopolysaccharides, bioflocculants, biocellulose, bioplastics, and edible films as well as the attendant metabolic enzymes.

Also, my research interest is on the assessment of phyto-components, antioxidant, antibacterial, anticancer and cytotoxicity potential of plants extracts with special interest towards the development of bio-nanomaterial by employing Nano biotechnology approach using microorganisms / plant and their metabolites as a bio-reducing, and bio-oxidizing and capping agent for nanoparticles biosynthesis.

Functionalization of nanoparticles as a new antimicrobials in combatting the problem of emerging and re-emerging resistant microbes, a new drug development and development of different nano-products including nanobioflocculant, nanocandy, nanobabyfood and nanoenzyme.

Phytochemicals and antibacterial activities of some medicinal plants have been evaluated and the findings have been published. Biosynthesis, characterization, biological evaluation and application of silver, gold and zinc oxide nanoparticles using plants, bacteria, lower and higher fungi and their metabolites as bio-reducing agents has been done.

Phytofabrication nanoparticles using crude and partition fractions of *Senna alata*, *Nigella sativa* seed and their biological evaluation and application in cold cream formulation is has been done.

### (c) Project, Dissertation and Thesis:

**Aina, B.C.** (1998). Microbiological, Physicochemical and Sensory Evaluation of Cheese produced from milk of Maradi Goats preserved at 4°C and 37°C. M.Sc. project, University of Ibadan, Ibadan, Nigeria. 87 pp.

**Adebayo-Tayo, B.C.** (2006). Physico-chemical and nutritional characterization of exopolysaccharides of lactic acid bacteria isolated from some fermented foods in Nigeria. Ph.D. Thesis, University of Ibadan, Ibadan, Nigeria. 148 pp.

### X. Publications

Chapters in Books Already Published:

1. Adebami, G. and **Adebayo-Tayo, B.C.** (2020). Development of cellulolytic strain by genetic engineering approach for enhanced cellulase production. In Kuila, A. and Sharma, V. (Eds.) Genetic and Metabolic Engineering for Improved Biofuel Production from Lignocellulosic Biomass, Elsevier: Chapter 8, 103-136pp. Paperback ISBN 9780128179536, eBook ISBN 9780128179543. (USA)(Contribution: 50%).

Articles that have Already Appeared in Refereed Conference Proceedings:

2. **Adebayo-Tayo, B. C.**, Ugochukwu, C. B., Alao, S.O. and Akintunde, M.O. (2019). Nanoparticles produced from culture filtrate of *Penicillium* sp. against some test Pathogen. In Ogundare, F. O., Oyetunji, O. J. and Oladosu, I. A. (Eds.). Innovative Scientific Research and National Development: *Proceedings of the 4<sup>th</sup> International Conference on Scientific Research and Innovations in Nigeria, Faculty of Science, University of Ibadan.* 65-69, May 16-19. (Nigeria) (Contribution: 60%)
3. **Adebayo-Tayo, B. C.**, Olukole, S. A., Alao, S. O., Adebayo, M. S. (2019): Production and characterization of silver nanoparticles from culture filtrate of *Aspergillus niger*. In Longe, O.B., Ekong, U., Boateng, R. and Baba, A. (Eds.). Promoting Technology Transfer and Innovation through Inter-tertiary Collaboration and Intellectual Competition: *Proceedings of the 18<sup>th</sup> iSTEAMS Multidisciplinary Cross-Border Conference, University of Ghana, Legon, Accra.* 157 – 164, July 28 – 30<sup>th</sup> (Ghana) (Contribution: 60%).
4. **Adebayo-Tayo, B.C.**, Sanusi, J. Alao, S.O. and Ewa, G. O. (2019). Bio-fabrication of silver nanoparticles from prodigiosin broth of *Serratia marcescens* and it antibacterial potential against some pathogens. In Longe, O.B., Ekong, U., Boateng, R. and Baba, A. (Eds.). Promoting Technology Transfer and Innovation through Inter-tertiary Collaboration and Intellectual Competition: *Proceedings of the 18<sup>th</sup> iSTEAMS Multidisciplinary Cross-Border Conference, University of Ghana, Legon, Accra.* 108-120, July 28 – 30<sup>th</sup> (Ghana) (Contribution: 60%)
5. Onilude, A.A. and **Adebayo-Tayo, B.C.** (2000). Microbiological and physicochemical properties of

- cheese produced from milk of Maradi Goats. *Nigeria Journal of Science and Science Education* Vol. 7. No. 1: 17 – 27.
6. Ogunjobi, A.A., **Adebayo-Tayo, B.C.**, Ogunshe, A.A. (2005). Microbiological, proximate analysis and sensory evaluation of processed Irish potato fermented in brine solution. *African Journal of Biotechnology* 4: 12, 1409 – 1412.
  7. Aderibigbe, E. Y. and **Aina, B.C.** (2005). Fermentative utilization of soybean in Nigeria: optimization of the conditions for *Tempeh* production. *Science Focus* Vol. 10, No. 1: 25 - 29.
  8. **Adebayo-Tayo, B. C.**, Akpan, M.M. and Wilson, N. N. (2006). Effect of Different Method of Preservation on the Shelf Life Extension of Periwinkle. *Journals of Scientific and Industrial Studies* 4:1 41-44.
  9. **Adebayo-Tayo, B.C.**, Onilude, A.A., Ogunjobi, A.A., Gbolagade, J.S. and Oladapo, M.O. (2006). Detection of fungi and aflatoxin in shelved bush mango seeds (*Irvingia* spp.) stored for sale in Uyo, Eastern Nigeria. *Electronic Journal of Environmental, Agricultural and Food Chemistry* Vol. 5. No. 5: 1569 - 1574.
  10. **Adebayo-Tayo, B.C.** and Onilude, A.A. (2008). Screening of lactic acid bacteria strains isolated from some Nigerian fermented foods for EPS-production. *World Applied Sciences Journal* Vol. 4. No. 5: 741 – 747.
  11. **Adebayo-Tayo, B.C.** and Ogunjobi, A. A. (2008). Comparative effects of oven dried and sun-dried on the microbiological, proximate nutrient and mineral composition of *Trypanotus* spp. (Periwinkle) and *Crassostrea* spp (Oyster). *Electronic J. Environ. Agric. Food Chem* 7 (4): 2856-2867.
  12. **Adebayo –Tayo, B.C.** and Adegoke, A.A. (2008). Phytochemical and microbial screening of Herbal remedies in Akwa Ibom state, south southern Nigeria. *Journal of Medicinal Plants Research* 2 (11): 306-310.
  13. **Adebayo-Tayo, B.C.** and Ajibesin, K.K (2008) Antimicrobial activities of *Coula edulis*. *Research Journal of Medicinal Plant* 2 (2):86-91.
  14. Okonko, I. O. Adejoye, O. D., Ogunjobi, A. A, Nkang, A. O. and **Adebayo-Tayo, B. C.** (2009). Hazards Analysis Critical Control Points (HACCP) and Microbiology Qualities of Sea-foods as Affected by Handler’s Hygiene in Ibadan and Lagos Nigeria. *African Journal of Food Science*. 3(2): 035-050.
  15. Adegoke, A. A. and **Adebayo-Tayo, B.C.** (2009). Antibacterial activity and Phyto-chemical Analysis of Leaf Extracts of *Lasienthera africanum*. *African Journal of Biotechnology* Vol. 8 (1), 077-080.
  16. Adegoke, A.A. and **Adebayo-Tayo, B.C.** (2009). Phytochemical composition and antimicrobial effects of *Corchorious olitorius* leaf extracts on four bacterial isolates. *Journal of Medicinal Plants Research* 3(3):155-159
  17. Akinjogunla, O.J., Adegoke, A.A. Udokang, I.P. and **Adebayo-Tayo, B.C.** (2009). Antimicrobial potential of *Nymphaea lotus* (*Nymphaeaceae*) against wound pathogens. *Journal of Medical Plants Research* 3(3): 138-141.
  18. **Adebayo-Tayo, B.C.**, Adegoke, A.A. and Akinjogunla, O.J. (2009). Microbial and physicochemical quality of powdered soymilk samples in Akwa Ibom, South southern Nigeria. *African Journal of Biotechnology*: Vol. 8(13). Pp.3066-3071
  19. **Adebayo-Tayo, B.C.** and Samuel, U.A. (2009). Microbial quality and proximate composition of *Hibiscus sabdariffa* calyces in Uyo, eastern Nigeria. *Malaysian Journal of Microbiology*, Vol 5(1) pp.13-18.
  20. **Adebayo-Tayo, B.C.** and Friday, E.E (2009). Microbiological and nutritional quality of retail and laboratory “Ikpan”. *Internet J. of Nutrition and Wellness* Vol. 8 (2). ISSN: 1937-8297.
  21. **Adebayo-Tayo, B.C.** and Onilude, A.A. (2009). Comparative influence of medium composition on biomass growth, lactic acid and exo-polysaccharide production from strains of lactic acid bacteria. *Internet Journal of Microbiology* Vol. 7 (2). ISSN: 1937-8289.
  22. Adegoke, A. A., **Adebayo-Tayo, B. C.**, Inyang, C. U., Aiyegoro, O.A. and Komolafe, A. O. (2009) Snails as meat source: Epidemiological and nutritional Perspectives. *Journal of Microbiology and Antimicrobials* 1: (3). pp 012-018
  23. **Adebayo-Tayo, B.C.**, Adegoke A.A., Okoh, A.I. and Ajibesin, K.K. (2010). Rationalizing some medicinal plants used in treatment of skin diseases. *African Journal of Microbiology Research* 4(10), 958-963.
  24. **Adebayo-Tayo, B.C.** and Okpo, M.A (2010). Microbiological, proximate and heavy metal concentration in *Penaeus* sp. (shrimp) and *Callinectes* sp. (crab) from creeks in Niger delta Nigeria. *AJFAND* 10 (8):3047-3064.
  25. **Adebayo-Tayo, B.C.** and Ekerete, B.S. (2010). Effect of cultural conditions on Exo-biopolymer production and biomass growth by *Pleurotus sajor-caju* (Fr.) Quel, a Nigerian edible mushroom. *Advances in Food Science*.32: 2, 75-8128.
  26. **Adebayo-Tayo, B. C.**, Adeyoye D. A. and Umouko, S. E. (2010). Mycoflora associated with onion bulb (*Allium cepa*) showing rots infections and their aflatoxigenic ability. *Niger. J. Mycol.* 2 (1):178-187.
  27. **Adebayo-Tayo, B. C.** and Ettah, A. E. (2010) Microbiological quality and aflatoxin B<sub>1</sub> level in poultry and livestock feeds. *Niger. J. Microbiol.*, 24(1):2145-2152.
  28. **Adebayo-Tayo, B.C.** Onilude, A. A. and Joe, A. U. (2011) Efficacy of formulated media on production of bio-molecules by some selected EPS-producing lactic acid bacteria strains. *EJEAFChe*, 10(1), (1837-

29. **Adebayo-tayo, B.C** and Needum, G.E. (2011). Microbiological, physicochemical and sensory evaluation of "Ori-ese" produced from fortified sorghum. *AJFAND* 11 (3):4785-4799.
30. Oladejo, D.A. and **Adebayo-Tayo, B.C.** (2011). Moulds, proximate and mycotoxin contamination of Banda ("kundi"/ "tinko") sold in Ibadan, Oyo state, Nigeria. *AU J.T.* 15(1): 32-40.
31. **Adebayo-Tayo, B.C.**, Onilude, A.A. and Imo, E.F. (2011). Studies on Microbiological, Proximate mineral and heavy metal Composition of freshwater snails from Niger Delta creek in Nigeria. *AU J.T.* 14(4): 290-298.
32. **Adebayo-Tayo, B. C.**, Jonathan, S. G., Popoola, O. O. and Egbomuche, R. C. (2011) Optimization of growth conditions for mycelial yield and exopolysaccharide production by *Pleurotus ostreatus* cultivated in Nigeria. *African Journal of Microbiology Research* Vol. 5(15), pp. 2130-2138,
33. Ugwu, E.E. and **Adebayo-Tayo, B.C.** (2011). Screening of Some Basidiomycetes for Bio-polymers and Biomass Production in Submerged Cultivation. *AU J.T.* 15(1): 41-44 (Jul. 2011).
34. **Adebayo-Tayo, B.C.** and Ugwu, E.E. (2011). Influence of Different Nutrient Sources on Exopolysaccharide Production and Biomass Yield by Submerged Culture of *Trametes versicolor* and *Coprinus* sp. *AU J.T.* 15(2): 63-69 (Oct. 2011)
35. **Adebayo-Tayo, B.C.** Okonko, I.O. Esen, C.U. Odu, N.N. Onoh, C.C. and Igwiloh, N.J.P. (2011). Incidence of Potentially Pathogenic *Vibrio* Spp. In Fresh Seafood from Itu Creek in Uyo, Akwa Ibom State, Nigeria. *World Applied Sciences Journal* 15 (7): 985-991.
36. **Adebayo-Tayo, B.C.**. Okonko, I.O. John, M.O Odu, N.N. Nwanze, J.C. and Ezediokpu, M.N. (2011). Occurrence of Potentially Pathogenic *Vibrio* Species in Sea Foods Obtained from Oron Creek *Advances in Biological Research* 5 (6): 356-365.
37. **Adebayo-Tayo, B.C.**, Odu, N.N., Michael, M.U., Okonko, I.O.. (2012). Multi-Drug Resistant (MDR) Organisms isolated from Sea-foods in Uyo, South-Southern Nigeria. *Nature and Science*, 10(3): 61-70
38. **Adebayo-Tayo, B.C.**, Odu, N.N., Anyamele, L.M., Igwiloh, N.J.P.N, Okonko, I.O. (2012). Microbial quality of frozen fish sold in Uyo Metropolis. *Nature and Science*, 10(3): 71-77. (ISSN: 1545-0740).
39. **Adebayo-Tayo, B.C.**, Odu, N.N, Okonko, I.O. (2012). Microbiological and physicochemical changes and its correlation with quality indices of tilapia fish (*Oreochromis niloticus*) sold in Itu and Uyo markets, Akwa Ibom State, Nigeria. *New York Science Journal*, 5(4):38-45.
40. **Adebayo-Tayo, B.C.**, Odu, N.N., Esen, C.U., Okonko, I.O. (2012). Microorganisms Associated With Spoilage Of Stored Vegetables In Uyo Metropolis, Akwa Ibom State, Nigeria. *Nature and Science*; 10(3):23-32.
41. **Adebayo-Tayo, B.C.**, Ekanem, M.S., Odu, N.N., Igwiloh, N.J.P.N, Okonko, I.O. (2012). Pathogenic Microorganisms Associated With Flies within Uyo Metropolis during the Wet Season. *Researcher*: 4(4):37.
42. Musa, H. and **Adebayo-Tayo, B. C.** (2012). Screening of Microorganisms Isolated from Different Environmental Samples for Extracellular Lipase Production. *AU J.T.* 15(3): 179-186
43. **Adebayo-Tayo, B.C.**, Odu, N.N., Igiwiloh, N.J.P.N., Okonko, I.O. (2012). Microbiological and Physicochemical Level of Fresh Catfish (*Arius hendelotic*) From Different Markets in Akwa Ibom State, Nigeria. *New York Science Journal*; 5(4):38-45.
44. Onilude, A.A., **Adebayo-Tayo, B.C.**, Odeniyi, A. O., Banjo, D. and Garuba, E.O. (2012). Comparative mycelial and spore yield by *Trichoderma viride* in batch and fed-batch cultures. *Ann Microbiol.* DOI 10.1007/s13213-012-0502-z
45. Amande, T. and **Adebayo-Tayo, B. C.** (2012). Screening Of New Isolates Fungal Strains For Polygalacturonase Production In Submerged Fermentation. *Innovative Romanian Food Biotechnology Vol. 11*, 15-22.
46. **Adebayo-Tayo, B.C.**, Oscar, F., Igboekwe, A. (2012). Microbiological and Mycotoxins Evaluation Of Cereals - Based Baby Food Samples Sold In Nigeria Market. *Academia Arena*; 4(12):18-26.
47. Akinola, G.E., Olonila, O.T., **Adebayo-Tayo, B.C.** (2012). Production of Cellulases by *Trichoderma* Species. *Academia Arena*: 4(12):27-37.
48. Akinola, G. E, **Adebayo-Tayo, B.C** and Olonila, O.T. (2012). Screening and Production of *B-galactosidase* by *Trichoderma* species. *Researcher Journal*: 10(12):265-270
49. Akinola, G. E, **Adebayo-Tayo , B.C** and Ogunleye, P. A. (2013). Influence of Physicochemical Parameters on Beta-Galactosidase Production and Growth of *Trichoderma* Species. *New York Science Journal*, 6 (10): 1-6
50. Olonila, O. T., **Adebayo-Tayo, B.C.** and Akinola, G. E. (2012). Fortification Of Sorghum With Legumes Using *Lactobacillus plantarum* As Starter For "Ori-Ese" Production. *Nature and Science*; 10(12):259-264.
51. **Adebayo-Tayo, B.C.** and Haliru, M. (2012). Optimization and catalytic activity of *Streptococcus* sp. and *Acinetobacter* sp. Lipases. *Advances in Food Sciences.* 34 (4): 202 - 208.
52. **Adebayo-Tayo, B.C.** and Onilude, A.A. (2012). Quality assessment of wara (African cheese) produced using exopolysaccharides-producing starter cultures of lactic acid bacteria. *Journal of Science Research*, 11(1):141 – 150.
53. **Adebayo-Tayo, B.C.** and Ugwu, E.E. (2013). Effects of nutrient concentration on exopolysaccharide

- Production by *Ganoderma lucidum* (Fr.). *Advances in Food Sciences* 35(1): 14 – 22.
54. **Adebayo-Tayo BC**, Ofosiata UC, Ebenezer AA (2013). Evaluation Of Microbiological Quality And Aflatoxin Mi (AFM1) Contamination Of Milk Powder Samples Sold In Nigeria Market. *Academia Arena*: 5(1):1 – 9.
  55. Amande, T., **Adebayo-Tayo, B.**, Ndubuisi-Nnaji, U. and Ado, B. (2013). Production and partial characterization of pectinases from mango peels by *Aspergillus tamari*. *JMBFS*, 3 (1) 59-62.
  56. Adebami, G. and **Adebayo-Tayo, B. C.** (2013). Comparative effect of medium composition on bioflocculant production by microorganisms isolated from wastewater samples. *Report and Opinion*; 5(2):46-53.
  57. **Adebayo-Tayo B.**, Elelu, T., Akinola, G. and Oyinloye, I. (2013). Screening and production of mannanase by *Bacillus* strains isolated from fermented food condiments. *Innovative Romanian Food Biotechnology*, **13**:53 – 62.
  58. **Adebayo-Tayo, B. C.**, Ugwu, E. E. and Musa, H. (2013). Physiological requirement for Growth and Extracellular Polysaccharides (EPS) production by *Marasmius* sp. and *Fomes* sp. (A comparative study). *J. Microbiol. Biotech. Res.*, 3 (5): 1 – 11.
  59. **Adebayo-Tayo , B.** and Adebami, G. (2014). Production and characterization of bioflocculant produced by *Bacillus clausii*NB2. *Innovative Romanian Food Biotechnology* 14, 13 – 25.
  60. **Adebayo-Tayo, B.**, Adeyemi, F., Odeniyi, O. and Olasehinde, K. (2015). Mycoflora, Mycotoxin Contamination and Proximate Mineral Composition of Smoke- Dried Frog (*Aubria* sp.) (Konko) sold in Ibadan, Oyo State, Nigeria. *Turkish Journal of Agriculture- Food Science and Technology*, 3(11): 894 – 903.
  61. **Adebayo-Tayo, B.**, Olaseinde, K., Odeniyi, A.O., Wakil, S.M. and Onilude, A. (2015). Catalytic activity and purification of thermostable lignases from *Ganoderma* sp. ADE468 and its potential application in the decolourization of dyes. *Suranaree J. Sci. Technol.* 23(3):309-323.
  62. **Adebayo-Tayo, B.C.**, Ademuwagun, S.D. and Alao, S.O. (2016). A Comparative Study Of Probioticated Kunun-Zaki By Probiotic Strains Of *Pediococci* spp. And *Lactobacillus rhamnosus* GG. *Turkish Journal of Agriculture - Food Science and Technology*, 4(12): 1053-1060.
  63. **Adebayo-Tayo, B.** and Akpeji, S. (2016). Probiotic Viability, Physicochemical and Sensory Properties of Probiotic Pineapple Juice. *Fermentation*, 2, 20.
  64. **Adebayo-Tayo, B.C.**, Akinsete, T.O. and Odeniyi, A.O. (2016). Phytochemical Composition and Comparative Evaluation of Antimicrobial Activities of the Juice Extract of *Citrus aurantifolia* and its Silver Nanoparticles. *Nig. J. Pharm. Res.* 2016, 12 (1):59-64.
  65. **Adebayo-Tayo, B.C.** and Popoola, A. (2017). Biogenic synthesis and antimicrobial activity of Silver nanoparticle using exopolysaccharides from Lactic Acid bacteria. *Int. J. Nano Dimens.*, 8(1): 61-69.
  66. **B. Adebayo-Tayo, O.** Agidigbi, S. Alao (2017). Comparative influence of immobilization medium and mutation on EPS –production by *L. plantarum* MK02 isolated from fermented milk. *Trakia Journal of Sciences*, No 1, pp 30-41.
  67. **Adebayo-Tayo, B. C.** Akintunde, M. O., Alao, S.O. (2017). Comparative Effect of Agrowastes on Bacterial Cellulose Production by *Acinetobacter* sp. BAN1 and *Acetobacter pasteurianus* PW1. *Türk Tarım ve Doğa Bilimleri Dergisi* 4(2): 145–154.
  68. Akpeji, S.C., **Adebayo-Tayo, B.C.**, Sanusi, J.F. and Alao, S. (2017). Production and Properties of Probiotic Soursop Juice Using *Pediococcus pentosaceus* LBF2 as Starter. *International Journal of Biochemistry Research & Review*. 17(2): 1-10.
  69. **Adebayo-Tayo, B. C.**, Popoola, A. O. and Ajunwa, M. A. (2017). Bacterial synthesis of silver nanoparticles by Culture Free Supernatant of lactic acid bacteria isolated from fermented food samples. *Biotechnology Journal International*. Vol. 19, No. 1, 1 – 13.
  70. **Adebayo-Tayo, B.C.** and Adebami, G.E. (2017). Production, characterization and effect of cultural condition on bioflocculant produced by *Alcaligenes aquatilis* AP4. *Journal of Applied Life Sciences International*. Vol.14. No. 2.1-12.
  71. Adebami, G. E., **Adebayo-Tayo, B.C.** and Akinyugha, A.A. (2017). Effect of optimization of cultural parameters on exobiopolymer production by microbial isolates and their application in wastewater treatment. *Microbiology Research Journal International*. Vol. 21. No. 6, 1-15.
  72. Popoola, A. O. and **Adebayo-Tayo B.C.** (2017). Green synthesis of silver nanoparticles using supernatant from *Lactobacillus casei* LPW2 cultured in Modified Exopolysaccharides Selection Medium. *Journal of Applied Life Sciences International* Vol. 13.No. 2: 1- 8.
  73. Odeniyi, O.A., Unuofin, J.O., **Adebayo-Tayo, B.C.**, Wakil, S.M and Onilude, A.A. (2017). Production characteristics, activity patterns and biodecolourisation applications of thermostable laccases from *Corynebacterium efficiens* and *Enterobacter ludwigii*. *Journal of Scientific and Industrial Research* Vol. 76. 562-569
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## XI Major Conferences and Workshops attended with Papers Read (in the last five years)

### XI Major Conferences and Workshops attended with Papers Read (in the last five years)

1. The 17<sup>th</sup> iSTEAMS Multidisciplinary Cross-border Conference, University of Ghana, Legon, Accra, Ghana. 28 – 1 July, 2019  
Paper presented:
  - a. Fashogbon, R. and **Adebayo-Tayo, B. C.** (2019). Production of Extracellular Polysaccharide Substance by Lactic Acid Bacteria under Different Production Conditions
  - b. Ajibade, A. A., Salaam, A. M. and **Adebayo-Tayo, B. C.** (2019). Green synthesis of silver nanoparticle using *Oscillatoria* sp., extract, its antibacterial and cytotoxicity activity
  - c. Ogunrinade, J., Sanusi, J. and **Adebayo-Tayo, B. C.** (2019). Biogenic synthesis, characterization and functionalization of gold and silver Nanoparticles using *Pleurotus pulmonarius* exopolysaccharides for antimicrobial Application
  - d. **Adebayo-Tayo, B. C.**, Olukole, S. A., Alao, S. O., Adebayo, M. S. (2019): Production and Characterization of Silver Nanoparticles from Culture Filtrate of *Aspergillus niger*
  - e. **Adebayo-Tayo, B.C.**, Sanusi, J. Alao, S.O. and Ewa, G. O. (2019). Bio-fabrication of silver nanoparticles from prodigiosin broth of *Serratia marcescens* and its antibacterial potential against some pathogens
2. The 4<sup>th</sup> International Conference on Scientific Research in Nigeria on Innovative Scientific Research and national Development. Faculty of Science, University of Ibadan, Ibadan. Nigeria. 20 – 23 May, 2019  
Paper and poster presented:
  - a. Abioye, A. A., Salaam, A. M. and **Adebayo-Tayo, B. C.** (2019). Phycosynthesis of silver nanoparticles using *Chlorella vulgaris* metabolites: its antibacterial, anti-biofilm and in-vitro cytotoxicity potential.
  - b. Borode, O. S., Ogunrinade, J. O., Alao, S. O., Olaniyi, O. A. and **Adebayo-Tayo, B. C.** (2019). Greenly fabricated zinc oxide nanoparticles from *Senna alata* leaf extracts: its antibacterial potency and application in cold cream formulation.
  - c. Adebami, G. E., **Adebayo-Tayo, B. C.** and Kuila, A. (2019). Production and Characterization of Biodiesel produced from Waste Soybean Cooking oil (WSCO) by immobilized *Fusarium equiseti* MSH2 lipase.
  - d. Ajani, T. F. and **Adebayo-Tayo, B. C.** (2019). Purification, characterization and application of bioflocculant produced by *Rhodotorula glutinis* ATCC 204091
  - e. Ogunleye, G. E., **Adebayo-Tayo, B. C.**, Ogbale, N. and Titiloye, O. (2019). Biomedical application of greenly synthesized Silver Nanoparticles using filtrate of *Trichoderma viride*: anticancer and immunomodulatory potentials.
  - f. Fashogbon, R., Titiloye, O. and **Adebayo-Tayo, B. C.** (2019). Antibacterial, In- vitro Antioxidant, In-Vivo Immunomodulatory, Antitumor and Hematological Potential of Exopolysaccharide Produced by Wild Type and Mutant *Lactobacillus delbureckii* subsp. *Bulgaricus*
  - g. Ogunrinade, J. and **Adebayo-Tayo, B. C.** (2019). Mycofabrication of ceftriaxone functionalized gold and silver nanoparticles using *Pleurotus ostreatus* biomolecules as an antimicrobial Nano platform against Multi Drug Resistance pathogens.
3. The Lautech Nano 2019- International conference on “Nanotechnology Applications in Africa: Opportunities and constraints” Ladoke Akintola University of Technology, Ogbomosho, Oyo state, Nigeria. October 22-24, 2019.  
Paper presented:

**Adebayo-Tayo, B.**, Salam, A., Ogunrinade, J., Alao, S., Ajibade, A., Sanusi J. and Fasogbon, R. (2019). Anti-listeria potential of *Bacillus* spp. metabolites, its silver nanoparticles and the synergetic effect of the nanoparticles and antibiotics against some Multidrug Resistant (MDR) *Listeria* spp.
4. 5<sup>th</sup> International conference in Nanotechnology on “Nanotechnology In Africa, Changing the Narrative for the Benefit of Mankind” Ladoke Akintola University of Technology, Ogbomosho, Oyo state, Nigeria. October 26-28, 2021.  
Paper presented:
  - a) Alao S.O., Sanusi, J.F., **Adebayo-Tayo, B.C.** and Ajani, T.F. (2021). Phytochemical, phytofabrication and biological evaluation of *Abrus precatorious* leaves and stems methanol extracts and their silver nanoparticles

- b) Alao S.O., Fashogbon R.O. Adeyemo M.O., and **Adebayo-Tayo, B.C.** (2021). Bio-fabrication and characterization of selenium nanoparticles of *Lactobacillus fermentum* and its antagonistic effect on food-borne pathogens and formulation of Nano-food.
  - c) Ogunleye G.E., **Adebayo-Tayo, B.C.** and Adediran R.M. (2021). Biological evaluation of extracellular mycosynthesized silver nanoparticles by *Trichoderma asperellum*
  - d) Babajide A.M., Ogunleye G.E., Ajani T.F. and **Adebayo-Tayo, B.C.** (2021). Biosynthesis and characterization of selenium nanoparticles from plant growth promoting Rhizobacterial and their antifungal potential.
5. Copenhagen Bioscience Conferences: Microbial Food. Novo Nordisk Foundation, University of Copenhagen, Denmark. 8 -12 May, 2022.  
Paper Presented:  
Fashogbon R.O., Ogunleye G. E. and **Adebayo-Tayo B. C.** (2022). Antimicrobial and antioxidant potential of lactic acid bacteria isolated from fermented *Zea mays* (*Ogi*).
6. ECOWAS Emerging Technologies, Scientific, Business, Social Innovation and Cyber Space Ecosystem Conference, Academic City University Accra, Ghana. 29 September – 1 October, 2022. Theme: Multidisciplinary perspective on harnessing emerging technology for regional development.  
Paper presented:  
a) Alao, S. O., Fagbesan, E.I., Sanusi J.F., and **Adebayo-Tayo, B.C.** (2022). Production and characterization of *Bridelia ferruginea* selenium and titanium nanoparticles and its antibacterial activity against multidrug resistance *E. coli*.
- b) Ajani, T. F., Alao, S. O., Onitilo V.O., Fasogbon, R. and **Adebayo-Tayo, B.C.** (2022). Production, Purification and Characterization of B-D-Fructofuranosidase from *Fusarium oxysporum* isolated from grape juice and soil sample from sugar cane dumpsite.
- c) Ogunleye G.E., Mowah E.G., Malomo, M. Oyinlola K.A. and **Adebayo-Tayo, B.C.** (2022). Production and characterization of B-D-Fructofuranosidase from *Aspergillus niger*.
- d) **Adebayo-Tayo, B.C.** and Alao, S. O. (2022). Antimicrobial activity of silver and zinc oxide nanoparticles and formulated cream from *Nigella sativa* seed oil hexane fraction.
- e) Ajani, T. F., **Adebayo-Tayo, B. C.**, Alao, S. O., Ogunwale, J. O. and Akinde, S. B. (2022). Application of Silver Nanoparticles Biosynthesized using secondary metabolites of acid-tolerant bacteria isolated from Osun state gold mining field, Southwest Nigeria.

7. TARGID 2022- 6th International Anatolian Agriculture, Food, Environment and Biology Congress, Turkish Science and Technology Publishing (TURSTEP), Kütahya/Türkiye, October 7-9, 2022.  
Paper presented:  
a) Alao S.O., Sanusi, J.F., Akinola, G.E. and **Adebayo-Tayo, B.C.** (2022). Nutritional composition and shelf-life extension of formulated nano-food blends fortified with selenium enriched *Lactobacillus pentosus* (LP-SeNPs) nanoparticles.
- b) Alao O.S., Sanusi, J.F. and **Adebayo-Tayo, B.C.** (2022). Phytofabrication and biological evaluation of silver nanoparticles of *Bridelia ferruginea* extracts.
- c) Akpeji S., Olawuyi, O. and **Adebayo-Tayo, B.C.** (2022). Application of Rhizobium and its Exopolysaccharides in drought and disease control
- d) Ogunleye, G.E., **Adebayo-Tayo, B.C.**, Oyinlola, K.B., Akintade, O., Fashogbon, R.O. and Adesina, T. (2022). Green synthesis, Characterization and Antimicrobial potential of Selenium Nanoparticles from *Ocimum gratissimum*.

8. The 5<sup>th</sup> International Conference on Scientific Research in Nigeria on Strengthening Scientific Research for National Development. Faculty of Science, University of Ibadan, Ibadan. Nigeria. 2 – 5 May, 2023  
Paper presented:  
a) Nwose, A.M, **Adebayo-Tayo B.C** and Onilude A.A. (2023). Screening and production of phenyllactic acid (PLA) by lactic acid bacteria isolated from cereal slurry.
- b) Samson, O., Alao, O. and **Adebayo-Tayo B.C.** (2023). Phytochemical and antimicrobial evaluation of selenium nanoparticles from Sorghum bicolor aqueous extracts.
- c) Alao, S.O., Adedapo, T., Odeniyi, O., **Adebayo-Tayo, B.** and Odeniyi, A. (2023). Characterization of exopolysaccharides from *Streptococcus salivarius* and *Leuconstoc* sp. and its evaluation as potential drug delivery polymers.
- d) Ofoegbunam, C., **Adebayo-Tayo, B.C.** (2023). Phytochemical and antimicrobial evaluation of silver nanoparticle from methanolic extract of wild Lettuce-*Lactuca taraxacifolia*.

9. ICFFH 2023 - International Conference on Formulations in Food and Healthcare, 2023. University of Birmingham India Institute, 30 May -1 June, 2023.  
Poster presented:

Ogundele, B.R., Alao S.O., Odeniyi, O.A., Odeniyi, M.A. and **Adebayo-Tayo, B.C.** (2023). Production and characterization of exopolysaccharides from lactic acid bacteria and its application in the preparation of probiotic coconut yoghurt.

10. TARGID 2023 – 3<sup>RD</sup> International Congress of the Turkish Journal of Agriculture – Food Science and Technology (TURJAF), September 13-16, 2023.

Paper presented:

Oluwasubomi Ayinke Samson, Alao Omoniyi Solomon, Victor Folarin and Bukola Christianah, Adebayo-Tayo (2023). Production and Characterization of Probiotic Mixed Fruit Juice Using Selenium Infused Lactic Acid Bacterial Starter, Sorghum bicolor (Poporo) Extract, Ananas comosus (Pineapple), Annona muricata (Soursop) Juices.

11. TARGID 2024 – 7th International Anatolian Agriculture, Food, Environment and Biology Congress, Kastamonu/Türkiye, September 26- 29, 2024.

Paper presented:

Ogunleye Gbemisola E., Adebayo-Tayo Bukola C. Bakarey Adebola D. (2024). "Antimicrobial Activities, Proximate and Mineral Analysis of Selenium Enriched Functional Food (Cheese)" to International Anatolian Agriculture, Food, Environment and Biology Congress.

12. Faculty of Science Academic Workshop held at the Faculty of Science, University of Ibadan, Ibadan, Nigeria, 10 September, 2024

#### REFEREES

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2. Prof. A.A. Ayodele - Department of Botany, University of Ibadan. Email: bayodele@yahoo.com
3. Prof. A.A. Onilude - Department of Microbiology, University of Ibadan. Email: abiodun.onilude@gmail.com



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06 MARCH, 2025

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