Full List of Publications

Prof BABALOLA O. Olubukola

# Publications (h-INDEX 48). \*Corresponding Author

## Papers in Refereed Journals

#### 2022

1. Olanrewaju OS, Oyatomi OA, **Babalola OO**, Abberton M (2022) Breeding potentials of Bambara groundnut for food and nutrition security in the face of climate change. Frontiers in Plant Science. 12:798993 Frontiers Media (IF 6.627 2021-2022) <https://doi.org/10.3389/fpls.2021.798993>
2. Fadiji AE, **Babalola OO**\*, Santoyo G, Perazzolli M (2022)The potential role of microbial biostimulants in the amelioration of climate change associated abiotic stresses on crops. Frontiers in Microbiology 12:829099 Frontiers Media (IF 6.064 2021-2022) <https://doi.org/10.3389/fmicb.2021.829099>
3. Mamphogoro TP**,** Kamutando CN, Maboko MM, **Babalola OO**, and Aiyegoro OA (2022) Whole-Genome Sequence of Paenibacillus polymyxa strain SRT9.1, a Promising Plant Growth - Promoting Bacterium. Microbiology Resource Announcements 11:1. American Society for Microbiology.<https://doi.org/10.1128/mra.01097-21>
4. Adeniji AA, **Babalola OO\*** (2022) Evaluation of Pseudomonas fulva PS9.1 and Bacillus velezensis NWUMFkBS10.5 as candidate plant growth promoters during maize-Fusarium interaction. Plant 11(3):324. MDPI (IF 4.658, Q1 Plant Sciences) <https://doi.org/10.3390/plants11030324>
5. Masowa MM, Kutu FR, **Babalola OO**, Mulidzi AR (2022) Optimizing application rate of winery solid waste compost for improving the performance of maize (*Zea mays* L.) grown on Luvisol and Cambisol. Applied Ecology and Environmental Research 20(1): 815-828. <http://www.aloki.hu> ISSN 1589 1623 (Print) ISSN 1785 0037 (Online): <http://dx.doi.org/10.15666/aeer/2001_815828> , ALÖKI Kft., Budapest, Hungary.
6. **Babalola OO\***, Adedayo AA, Fadiji AE (2022) Metagenomic survey of tomato rhizosphere microbiome using the shotgun approach. Microbiology Resource Announcements 11(2): e01131-21. American Society for Microbiology.<https://doi.org/10.1128/mra.01131-21>.
7. Olowe OM, Nicola L, Asemoloye MD, Akanmu AO, **Babalola OO**\*(2022)Trichoderma: Potential bio-resource for the management of tomato root rot diseases in Africa. Microbiological Research 257:126978. Elsevier (IF 5.415 2022). <https://doi.org/10.1016/j.micres.2022.126978>
8. Mamphogoro TP**,** Kamutando CN, Maboko MM, Aiyegoro OA, **Babalola OO** (2022) Draft Genome Sequence of Sweet Pepper Fruit Epiphyte-Associated Bacillus cereus HRT7.7. Microbiology Resource Announcements 11(2) e01125-21. American Society for Microbiology <https://doi.org/10.1128/mra.01125-21>
9. Ajilogba CF; Olanrewaju OS; **Babalola OO\*** (2022) Plant growth stage drives the temporal and spatial dynamics of the bacterial microbiome in the rhizosphere of *Vigna subterranea*. Frontiers in Microbiology 13:825377. Frontiers Media (IF 5.640 2021-2022). <https://doi.org/10.3389/fmicb.2022.825377>
10. Ajilogba CF, Olanrewaju OS and **Babalola OO\*** (2022) Improving Bambara groundnut production: insight into the role of omics and beneficial bacteria. Frontiers in Plant Science 13:836133. Frontiers media (IF 6.627 2021-2022) <https://doi.org/10.3389/fpls.2022.836133>
11. Adesetan T, **Babalola OO\*** (2022) Profiling of Bacillus cereus enterotoxigenic genes from retailed foods and detection of the nhe and hbl toxins with immunological assay. Journal of Applied and Natural Science 14: 254-267 [https://doi.org/10.31018/jans.v14i1.3258](https://ansfoundation-dot-yamm-track.appspot.com/1dvrFFXLqbm1CaF_moYbVuSGh9vBGPmaNnR6x4zg5M1mU2OOofwHdSxS5hKjHgsulV1SC6QH_YvwlRXqVE0j_5ylWq5WEwqbRqspXNadFCuMeXtv-U_pXJCvkme97u7siZG52abuZO7LW7LAuA2YKo_COEz62)
12. Ayiti OE; **Babalola OO\*** (2022) Sustainable intensification of maize in the industrial revolution: potential of nitrifying bacteria and archaea. Frontiers in Sustainable Food Systems 6:827477. Frontiers media (IF 5.005 2021) <https://doi.org/10.3389/fsufs.2022.827477>
13. Ayiti OE; **Babalola OO\*** (2022) Factors influencing soil nitrification process and the effect on environment and health. Frontiers in Sustainable Food Systems. 6: 821994 Frontiers media. (IF 5.005 2021) <https://doi.org/10.3389/fsufs.2022.821994>
14. Adeleke BS, **Babalola OO\*** (2022) "Meta-omics of endophytic microbes in agricultural biotechnology" Biocatalysis and Agricultural Biotechnology 42:102332 Elsevier (IF 3.281) [https://authors.elsevier.com/sd/article/S1878-8181(22)00059-7](https://authors.elsevier.com/sd/article/S1878-8181%2822%2900059-7)
15. Ayiti OE, Ayangbenro AS and **Babalola OO\*** (2022) Relationship between nitrifying microorganisms and other microorganisms residing in the maize rhizosphere.Archives of Microbiology 204-206 Springer Nature (IF 2.667 2021) <https://doi.org/10.1007/s00203-022-02857-2> <https://trebuchet.public.springernature.app/get_content/02f622af-dc8c-4e02-86fc-10a3e3cd7254>
16. Imade EE, Ajiboye TO, Fadiji AE, Onwudiwe DC, **Babalola OO** (2022) Green synthesis of zinc oxide nanoparticles using plantain peel extracts and the evaluation of their antibacterial activity. Scientific African 16: e01152. Elsevier <https://doi.org/10.1016/j.sciaf.2022.e01152>
17. Adeleke BS, Ayangbenro AS, **Babalola OO\*** (2022) **Effect of endophytic bacterium, Stenotrophomonas maltophilia JVB5 on sunflowers.** Plant Protection Science 58(3): 185-198. Czech Academy of Agricultural Sciences (CAAS) (IF 1.464 2020). <https://doi.org/10.17221/171/2021-PPS>
18. Nwachukwu BC; Ayangbenro AS; **Babalola OO\*** (2022) Effects of soil properties and carbon substrates on bacterial diversity of two sunflower farms. AMB Express 12:47. SpringerOpen (IF 3.298 2021-2022) <https://doi.org/10.1186/s13568-022-01388-9>
19. Adeleke BS, Ayilara MS, Akinola SA and **Babalola OO\*** (2022)Biocontrol mechanisms of endophytic fungi**.** Egyptian Journal of Biological Pest Control 32:46. SpringerNature (IF 1.995) <https://doi.org/10.1186/s41938-022-00547-1>
20. Nji QN, **Babalola OO\***, Ekwomadu TI, Nleya N, Mwanza M (2022) Six main contributing factors to high levels of mycotoxin contamination in African foods. Toxins 14:318. MDPI (IF 5.075) <https://doi.org/10.3390/toxins14050318>
21. **Babalola OO\***; Nwachukwu BC; Ayangbenro AS (2022) Amplicon sequencing data profiling of bacterial community connected with the rhizospheric soil from sunflower plants. Data in Brief 42:108207. Elsevier (IF 1.133 2022) <https://doi.org/10.1016/j.dib.2022.108207>
22. Adedayo AA, Fadiji AE, **Babalola OO\*** (2022) Plant health status affects the functional diversity of the rhizosphere microbiome associated with Solanum lycopersicum. Frontiers in Sustainable Food Systems 6:894312. Frontiers Media (IF 5.005 2022) <https://doi.org/10.3389/fsufs.2022.894312>
23. Enebe MC and **Babalola OO\*** (2022) Functional Diversity of Bacterial Communities in the Rhizosphere of Maize Grown on a Soil under Organic and Inorganic Fertilization. Scientific African 16: e01212. Elsevier <https://doi.org/10.1016/j.sciaf.2022.e01212>
24. Adedayo AA, Fadiji AE and **Babalola OO\*** (2022) The effects of plant health status on the community structure and metabolic pathways of rhizosphere microbial communities associated with Solanum lycopersicum. Horticulturae8*(*5), 404 MDPI (IF 2.923) <https://doi.org/10.3390/horticulturae8050404>
25. Enagbonma BJ and **Babalola OO\*** (2022) Metagenomics show that termite activities influenced the diversity and composition of soil invertebrates from termite mound soils, as shown by high throughput sequences. Applied and Environmental Soil Science Article ID 7111775, 9 pages, 2022. Hindawi (IF 4.33 2021). <https://doi.org/10.1155/2022/7111775>
26. Adedayo AA, **Babalola OO\***, Prigent-Combaret C, Cruz C, Stefan M, Kutu F, Glick BR. 2022. The application of plant growth-promoting rhizobacteria in *Solanum lycopersicum* production in the agricultural system: a review. PeerJ 10:e13405. O’Reilly Media, Inc., SAGE Publications (IF 3.061 2021) <https://doi.org/10.7717/peerj.13405>
27. Adeleke BS, Fadiji AE, Ayilara MS, Igiehon ON, Nwachukwu BC, **Babalola OO**\* (2022) Strategies to enhance the use of endophytes as bioinoculants in agriculture. Horticulturae *8(6)*, 498. MDPI (IF 2.331) <https://doi.org/10.3390/horticulturae8060498> (IF 2.923).
28. Adedayo, A.A.; Fadiji, A.E.;Babalola, O.O. (2022) The effects of plant health status on the community structure and metabolic pathways of rhizosphere microbial communities associated with Solanum lycopersicum. Horticulturae 8:404. MDPI (IF 2.923) <https://doi.org/10.3390/horticulturae8050404>
29. Adeleke BS and **Babalola OO\*** (2022) Underutilized crops in Africa: An African perspective on food security and safety. In Nestle Foundation for the study of problems of nutrition in the world Annual Report 2021: 42- 45. <https://www.nestlefoundation.org/docs/AnnualReport2021.pdf>
30. Nwachukwu BC and **Babalola OO\*** (2022) Metagenomics: A Tool for Exploring Key Microbiome with the Potentials for Improving Sustainable Agriculture. Frontiers in Sustainable Food Systems 6:886987. Frontiers Media (IF 5.005) <https://doi.org/10.3389/fsufs.2022.886987>
31. Omotayo OP, Igiehon ON, **Babalola OO**\* (2022) Microbial genes of agricultural importance in maize rhizosphere unveiled through shotgun metagenomics. Spanish Journal of Soil Science 12:10427. Frontiers Media (IF 1.07) <https://doi.org/10.3389/sjss.2022.10427>
32. Adeleke BS, Ayangbenro AS and **Babalola OO**\* (2022) In Vitro Screening of Sunflower Associated Endophytic Bacteria with Plant Growth-Promoting Traits. Frontiers in Sustainable Food Systems 6:903114. Frontiers media (IF 5.005) <https://doi.org/10.3389/fsufs.2022.903114>
33. Bitire TD, Abberton M, Oyatomi OA and **Babalola OO\*** (2022) Effect of Bradyrhizobium japonicum strains and inorganic Nitrogen fertilizer on growth and yield of accessions of Bambara groundnut (Vigna subterranea L.). Frontiers in Sustainable Food Systems 6:913239. Frontiers Media (IF 5.005) <https://doi.org/10.3389/fsufs.2022.913239>
34. Agbodjato NA, Assogba SA, **Babalola OO**\*, Koda AD, Aguegue RM, Sina H, Dagbenonbakin GD, Adjanohoun A and Baba-Moussa L (2022) Formulation of biostimulants based on arbuscular mycorrhizal fungi for maize growth and yield (Research Topic: Soil-Plant-Microbe Interactions: An Innovative Approach Towards Improving Soil Health and Plant Growth. Frontiers in Agronomy 4:894489. Frontier Media (IF 4:894489) <https://doi.org/10.3389/fagro.2022.894489>
35. Fadiji AE, Mthiyane DMN, Onwudiwe D, **Babalola OO\*** (2022) Harnessing the known and unknown impact of nanotechnology in enhancing food security and reducing postharvest losses: Constraints and future prospects. Agronomy 12:1657. MDPI (IF 3.949 Q1 2021 2022) https://doi.org/10.3390/agronomy12071657.
36. Olanrewaju OS, **Babalola OO\*** (2022). Plant growth-promoting rhizobacteria for orphan legumes production: Focus on yield and disease resistance in Bambara groundnut. Frontiers in Sustainable Food Systems 6: 922156 Frontiers Media (IF 5.005) https://doi.org/[10.3389/fsufs.2022.922156](http://dx.doi.org/10.3389/fsufs.2022.922156)
37. Ajilogba CF, **Babalola OO\***, Adebola P and Adeleke R (2022) Bambara Groundnut Rhizobacteria Antimicrobial and Biofertilization Potential. Frontiers in Plant Science 13:854937 Frontiers Media (IF 6.627) <https://doi.org/10.3389/fpls.2022.854937>
38. Olanrewaju OS, **Babalola OO\*** (2022). The rhizosphere microbial complex in plant health: A review of interaction dynamics Journal of Integrative Agriculture 21(8) 2168-2182 Elsevier (IF 2.848) [https://doi.org/10.1016/S2095-3119(21)63817-0](https://doi.org/10.1016/S2095-3119%2821%2963817-0) .
39. Ma. del Carmen Orozco-Mosqueda; Fadiji AE; **Babalola OO**; Glick BR, Santoyo G\* (2022) Rhizobiome engineering: unveiling complex rhizosphere interactions to enhance plant growth and health. Microbiological Research 263;127137 Elsevier (IF 5.415) <https://www.sciencedirect.com/science/article/pii/S094450132200177X>
40. Koza NA, Adedayo AA, **Babalola OO\***, Kappo AP\* (2022) Microorganisms in plant growth and development: roles in abiotic stress tolerance and secondary metabolites secretion Microorganisms 10, 1528. <https://doi.org/10.3390/microorganisms10081528>
41. Bitire TD, Abberton M, Oyatomi OA, **Babalola OO**\* (2022) Effect of *Bradyrhizobium japonicum* strains on the performance of accessions of Bambara groundnut (*Vigna subterranea (L)* *Verdc).* International Journal of Agriculture and Biology 28:17-24. Friends Science Publishers (IF 0.887).
42. Fadiji AE, Santoyo G, Yadav AN, **Babalola OO\*** (2022), Efforts toward overcoming drought stress on crops: Revisiting the potential mechanisms employed by plant growth-promoting bacteria**.** Frontiers in Microbiology13:962427. Frontiers Media (IF 6.064 2021-2022) <https://doi.org/10.3389/fmicb.2022.962427>
43. David OG, Ayangbenro AS, Odhiambo JJO, **Babalola OO\*** (2022). Striga hermonthica: A highly destructive pathogen in maize production. Environmental Challenges 8:100590. Elsevier (IF 4.69) <https://doi.org/10.1016/j.envc.2022.100590>
44. Dlamini SP, Akanmu AO and **Babalola OO\*** (2022) Rhizospheric microorganisms: The gateway to a sustainable plant health. Frontiers in Sustainable Food Systems 6: 925802 Frontiers Media (IF 5.005) <https://doi.org/10.3389/fsufs.2022.925802>
45. Fadiji AE, Galeemelwe O, **Babalola OO\*** (2022) Unravelling the endophytic virome inhabiting maize plant. Agronomy 12:1867. MDPI (IF 3.949 Q1 2021 2022) <https://doi.org/10.3390/agronomy12081867>
46. Ajiboye TT, Ayangbenro AS and **Babalola OO\*** (2022) Functional diversity of microbial communities in the soybean (Glycine max L.) rhizosphere from Free State, South Africa. Int. J. Mol. Sci. **2022**, 23(16), 9422; MDPI (IF 6.208 2021 2022) <https://doi.org/10.3390/ijms23169422>
47. Nji QN; **Babalola OO**; Mwanza M (2022) Aflatoxins in maize; can their occurrence be effectively mitigated in Africa in the phase of climate change and food insecurity?" Toxins 14, 574. MDPI (IF 5.075) <https://doi.org/10.3390/toxins1408057>
48. Ayiti OE, Ayangbenron AS, Babalola OO (2022) 16S amplicon sequencing of nitrifying bacteria and archaea inhabiting maize rhizosphere and the influencing environmental factors. Agriculture 12, 1328. MDPI (Q1 Agronomy IF 3.408) <https://doi.org/10.3390/agriculture12091328>
49. Fadiji AE, Mortimer PE, Xu J, Ebenso EE, Babalola OO\*(2002) Biosynthesis of nanoparticles using endophytes: a novel approach for enhancing plant growth and sustainable agriculture. Sustainability 14, 10839. MDPI (IF 3.251) <https://doi.org/10.3390/su141710839>
50. Nji Q, **Babalola OO**, Nleya N, Mwanza M (2022) Under reported human exposure to mycotoxins: The case of South Africa. Foods 11:2714. https:// doi.org/10.3390/foods11172714 MDPI (IF 5.561)
51. **Babalola OO\***, Dlamini SP, and Akanmu AO (2022 In press). Shotgun metagenomic survey of the diseased and healthy maize (Zea mays L.) rhizobiome. Microbiology Resource Announcements MRA00498-22. American Society for Microbiology
52. Gamedze NP, Mthiyane DMN, **Babalola OO**, Singh M, Onwudiwe DC (2022, In press) Physico-chemical characteristics and cytotoxicity evaluation of CuO and TiO2 nanoparticles biosynthesized using extracts of Mucuna pruriens utilis seeds. Heliyon. Elsevier Cell Press (IF 3.776)
53. Rojas-Sánchez B, Guzmán-Guzmán P, Morales-Cedeño LR, Orozco-Mosqueda C, Blanca C Saucedo-Martínez, Juan M Sánchez-Yáñez, Ayomide Emmanuel Fadiji, Babalola OO, Glick BR, Santoyo G (2022, in Press) Bioencapsulation of microbial inoculants: mechanisms, formulation types and application techniques. Applied Biosciences applbiosci-1784822
54. Olanrewaju -----**Babalola OO\*** (2022) Variations of nutrient and anti-nutrient components of Bambara groundnut (Vigna subterranea (L.) Verdc.) seeds. Journal of Food Quality (Hindawi) <https://doi.org/10.1155/1970/2772362>

#### 2021

1. **Babalola OO\***, Adeleke BS, Ayangbenro AS (2021) 16S rRNA Gene Amplicon Sequence Data from Sunflower Endosphere Bacterial Community. Data in Brief 39:107636. Elsevier (IF 1.133). <https://doi.org/10.1016/j.dib.2021.107636> [https://authors.elsevier.com/sd/article/S2352-3409(21)00911-2](https://authors.elsevier.com/sd/article/S2352-3409%2821%2900911-2)
2. Adeleke BS, Ayangbenro AS, **Babalola OO\*** (2021) Bacterial community structure of the sunflower (Helianthus annuus) endosphere. Plant Signaling & Behavior 16(12) 1974217 Taylor & Francis. (IF 1.67 2019-2020) <https://doi.org/10.1080/15592324.2021.1974217>
3. Adeleke BS, **Babalola OO\*** (2021) "Roles of plant endosphere microbes in agriculture - A review," Journal of Plant Growth Regulation. Springer. (IF 2.962 2019). <https://doi.org/10.1007/s00344-021-10406-2>
4. Olanrewaju OS, Oyatomi OA, **Babalola OO**, Abberton M (2021) Genetic diversity and environmental influence on growth and yield parameters of Bambara groundnut. Frontiers in Plant Science 12:796352. Frontiers Media (IF 6.627 2021). <https://doi.org/10.3389/fpls.2021.796352>
5. Emmanuel OC, **Babalola OO\*** (2021) Amaranth production and consumption in South Africa: the challenges of sustainability for food and nutrition security. International Journal of Agricultural Sustainability 20(4):449-460. Taylor & Francis (UK) (IF 2.66 2020) <http://dx.doi.org/10.1080/14735903.2021.1940729>
6. Nwachukwu BC, **Babalola OO\*** (2021) Comparative study of microbial structure and functional profile of sunflower rhizosphere grown in two fields. BMC Microbiology 21:337. BioMed Central Ltd. UK (IF 2.989 2019-2020) <https://rdcu.be/cCXfe> <http://dx.doi.org/10.1186/s12866-021-02397-7>
7. Imade EE; Omonigho SE; **Babalola OO**\*; Enagbonma BJ (2021) Lactic acid bacterial bacteriocins and their bioactive properties against food associated antibiotic-resistant bacteria. Annals of Microbiology 71:44. Springer (IF 2.112 2021-2022). <https://doi.org/10.1186/s13213-021-01652-6> - <https://rdcu.be/cBij5>
8. Chukwuneme CF, Ayangbenro AS, **Babalola OO\*** (2021) Impacts of land-use and management histories of maize fields on the structure, composition, and metabolic potentials of microbial communities. Current Plant Biology 28:100228. Elsevier (IF 2.145 2021) <https://doi.org/10.1016/j.cpb.2021.100228>
9. Masowa MM, Kutu FR, **Babalola OO**, Mulidzi AR, Dlamini P (2021) Effects of complementary and sole applications of inorganic fertilizers and winery solid waste compost on maize yield and soil health indices. Emirates Journal of Food and Agriculture 33(7):565-574 United Arab Emirates University (IF 1.04 2020). <https://www.ejfa.me/index.php/journal/article/view/2721>
10. Seenivasagan R, **Babalola OO\*** (2021) Utilization of Microbial Consortia as Biofertilizers and Biopesticides for the Production of Feasible Agricultural Product. Biology. 2021; 10(11):1111. MDPI (IF 5.079) <https://doi.org/10.3390/biology10111111>.
11. Agbodjato NA, Mikpon T, **Babalola OO\***, Dah-Nouvlessounon D, Amogou O, Lehmane H, Adoko MY, Adjanohoun A, Baba-Moussa LS (2021) Use of Plant Growth Promoting Rhizobacteria in combination with chitosan on maize crop: Promising prospects for sustainable and environmentally friendly agriculture. Agronomy **2021**, 11(11), 2205. MDPI (IF 3.34) <https://doi.org/10.3390/agronomy11112205>
12. Omomowo OI, **Babalola OO\*** (2021) Constraints and Prospects of improving cowpea productivity to ensure food, nutritional security, and environmental sustainability. Research Topic Accelerating Genetic Gains in Pulses. Frontiers in Plant Science 12, Article 751731. Frontiers Media (IF 5.753) <https://doi.org/10.3389/fpls.2021.751731>.
13. Adeleke BS, **Babalola OO\*** (2021) The plant endosphere-hidden treasures: A review of fungal endophytes. Biotechnology and Genetic Engineering Reviews 37(2) 154-177. Taylor & Francis (IF 4.379) <https://doi.org/10.1080/02648725.2021.1991714>.
14. Adeleke BS, **Babalola OO\*,** Glick BR (2021) The plant growth-promoting root-colonizing bacterial endophytes. Rhizosphere 20: 100433 Elsevier (IF 2.33 2019-2020). <https://doi.org/10.1016/j.rhisph.2021.100433>
15. Chukwuneme CF, Ayangbenro AS, **Babalola OO\*** (2021) Metagenomic analyses of plant growth-promoting and carbon-cycling genes in maize rhizosphere soils with distinct land-use and management histories. Genes 2021, 12, 1431. MDPI (IF 3.33 2019) <https://doi.org/10.3390/genes12091431>
16. Olanrewaju OS, **Babalola OO\*** (2021) Genome mining of three plant growth-promoting Bacillus species from maize rhizosphere. Applied Biochemistry and Biotechnology 193(12):3949-3969. Springer (IF 2.78 2020) <https://doi.org/10.1007/s12010-021-03660-3>
17. Olanrewaju OS, Oyatomi O, **Babalola OO**, Abberton M (2021) GGE Biplot Analysis of Genotype X Environment Interaction and Yield Stability in Bambara Groundnut. Agronomy 11:1839 MDPI (IF 3.417 2020; Q1 Agronomy, Q1 Plant Sciences). <https://doi.org/10.3390/agronomy11091839>
18. Mamphogoro TP, Kamutando CN, Maboko MM, Aiyegoro OA, **Babalola OO** (2021) Epiphytic bacteria from sweet pepper antagonistic in vitro to Ralstonia solanacearum strain BD 261, a causative agent of bacterial wilt. Microorganism 9:1947 MDPI (IF 4.152 2020) <https://doi.org/10.3390/microorganisms9091947>
19. Adeleke BS, Ayangbenro AS, **Babalola OO\*** (2021) [Genomic Analysis of Endophytic Bacillus cereus T4S and Its Plant Growth-Promoting Traits](https://www.mdpi.com/2223-7747/10/9/1776). Plants10(9), 1776. MDPI (IF 3.935) <https://doi.org/10.3390/plants10091776>.
20. Adeleke BS, Ayangbenro AS, **Babalola OO\*** (2021) Genomic assessment of *Stenotrophomonas indicatrix* for improved sunflower plant. Current Genetics Springer (IF 3.70 2020) <http://dx.doi.org/10.1007/s00294-021-01199-8> <https://rdcu.be/cnwnl>
21. **Babalola OO\***, Adeleke BS, Ayangbenro AS (2021) Whole genome sequencing of sunflower root-associated *Bacillus cereus*. Evolutionary Bioinformatics 17:1-6. Libertas Academica Ltd (IF 2.203 2018-2019) <https://doi.org/10.1177/11769343211038948>
22. Fasusi O, Amoo A, **Babalola OO\*** (2021) Characterization of plant growth-promoting rhizobacterial isolates associated with food plants in South Africa. Antonie van Leeuwenhoek 114(10), 1683-1708 Springer (IF 2.271 2020) <https://doi.org/10.1007/s10482-021-01633-4> <https://link.springer.com/content/pdf/10.1007/s10482-021-01633-4.pdf>
23. **Babalola OO\*,** Fasusi OA, Amoo AE, and Ayangbenro AS (2021) Complete Genome Sequence of a Plant Growth-Promoting Rhizobacterium, Bacillus sp. Strain OA1 Isolated from Soybeans. Biocatalysis and Agricultural Biotechnology 36:102121 Elsevier (IF 3.28) <https://www.sciencedirect.com/science/article/pii/S1878818121002176> <https://doi.org/10.1016/j.bcab.2021.102121>
24. Amoo AE, Delgado-Baquerizo M, **Babalola OO\*** (2021) Forest plantations reduce soil functioning in terrestrial ecosystems from South Africa. Pedobiologia - Journal of Soil Ecology 89:150757 Elsevier (IF 1.812)  [https://authors.elsevier.com/sd/article/S0031-4056(21)00051-2](https://authors.elsevier.com/sd/article/S0031-4056%2821%2900051-2). <https://doi.org/10.1016/j.pedobi.2021.150757>
25. Enebe MC and **Babalola OO\*** (2021) The Influence of Soil Fertilization on the Distribution and Diversity of Phosphorus Cycling Genes from Maize Rhizosphere using Shotgun Metagenomics. Genes*,*12(7): 1022. MDPI (IF 3.60 2016). <https://doi.org/10.3390/genes12071022>
26. Akanmu AO, **Babalola OO\***, Venturi V, Ayilara MS, Adeleke BS, Amoo AE, Shobowale AA, Fadiji AE, Glick BR (2021) Plant Disease Management: Leveraging on the Plant-Microbe-Soil Interface in the Biorational Use of Organic Amendments. Frontiers in Plant Science 12: 1590. Frontiers Media (IF 5.753 2021). <https://doi.org/10.3389/fpls.2021.700507>
27. Omotayo OP, Igiehon OZ, **Babalola OO\*** (2021) Metagenomic Study of the Community Structure and Functional potentials in Maize Rhizosphere Microbiome: Elucidation of Mechanisms behind the improvement in plants under normal and stress conditions. Sustainability13, 8079. MDPI (IF 2.592 2018). <https://doi.org/10.3390/su13148079>
28. **Babalola OO\***, Adeleke BS, Ayangbenro AS (2021) "Draft genome sequencing of Stenotrophomonas indicatrix BOVIS40 and Stenotrophomonas maltophilia JVB5, two strains with identifiable genes involved in plant growth promotion" Microbiology Resource Announcements 10:28 e00482-21. American Society for Microbiology <https://doi.org/10.1128/MRA.00482-21>
29. Akinola SA, Ayangbenro AS and **Babalola OO\*** (2021) Metagenomic Insight into the community structure of maize-rhizosphere bacteria as predicted by different environmental factors and their functioning within plant proximity. Microorganisms9(7): 1419. MDPI (IF 4.152 2020) <https://doi.org/10.3390/microorganisms9071419>
30. Molefe R, Amoo A, and **Babalola OO\*** (2021) Metagenomic insights into the bacterial community structure and functional potentials in the rhizosphere soil of maize plants. Journal of Plant Interactions 16(1): 258-269. Taylor & Francis. (IF 2.992 2019-2020). <https://doi.org/10.1080/17429145.2021.1936228>
31. Akinola SA, Ayangbenro AS and **Babalola OO\*** (2021, **won the cover page**) “The diverse functional genes of maize rhizosphere microbiota assessed using shotgun metagenomics” Journal of the Science of Food and Agriculture 101(8): 3193-3201. Wiley (IF 2.614 2019). <https://doi.org/10.1002/JSFA.10948>
32. Adeniji AA, Ayangbenro AS and **Babalola OO\*** (2021) Genomic exploration of Bacillus thuringiensis MORWBS1.1 - candidate biocontrol agent, predicts genes for biosynthesis of zwittermicin, 4,5-DOPA dioxygenase extradiol, and quercetin 2,3-dioxygenase. Molecular Plant-microbe Interactions: MPMI 34 (6): 602–605. The American Phytopathological Society (APS) publications (IF 3.696 2019/2020) <https://doi.org/10.1094/MPMI-10-20-0272-SC>.
33. Imade E and **Babalola OO\*** (2021) Biotechnological utilization: the role of Zea mays rhizospheric bacteria in ecosystem sustainability. Applied Microbiology and Biotechnology 105:4487-4500. Springer (IF 3.350 2019). <https://doi.org/10.1007/s00253-021-11351-6>
34. Enagbonma BJ, Amoo AE and **Babalola OO\*** (2021) Biopedturbation by termites affect respiration profiles of bacterial communities from termite mound soils. Journal of Soil Science and Plant Nutrition 21:2115-2123. Springer (IF 2.156 2019). <https://rdcu.be/ckw5d> <http://link.springer.com/article/10.1007/s42729-021-00507-y>
35. Amoo AE and **Babalola OO\*** (2021) Microbial diversity of temperate pine and native forest soils profiled by 16S rRNA gene amplicon sequencing. Microbiology Resource Announcements 10(20): e00298-21. American Society for Microbiology. <https://doi.org/10.1128/MRA.00298-21>
36. Nwachukwu BC and **Babalola OO\*** (2021) Perspectives for sustainable agriculture from the microbiome in plant rhizosphere. Plant Biotechnology Reports 15(3) 259-278. Springer (IF 1.462 2019). <https://doi.org/10.1007/s11816-021-00676-3> <https://rdcu.be/ckAVM>
37. Adeleke BS and **Babalola OO\*** (2021) Biotechnological overview of agriculturally important endophytic fungi. Horticulture, Environment, and Biotechnology 62(4) 507-520. Springer (IF 1.42). <https://doi.org/10.1007/s13580-021-00334-1>
38. Fadiji AE, Kanu JO, and **Babalola OO\*** (2021) Impact of cropping systems on the functional diversity of rhizosphere microbial communities associated with maize plant: a shotgun approach. Archives of Microbiology 203(6), 3605-3613. Springer (IF 1.884 2019). https://rdcu.be/ckmrs <https://doi.org/10.1007/s00203-021-02354-y>
39. Agbodjato NA,Adoko MY, **Babalola OO\*,** Amogou O, BadéFT, Noumavo PA, Adjanohoun A, Baba-Moussa L (2021) Efficacy of biostimulants formulated with *Pseudomonas putida* and clay, peat, clay-peat binders on maize productivity in a farming environment in southern Benin.Research Topic: Plant Growth-Promoting Microorganisms for Sustainable Agricultural Production. Frontiers in Sustainable Food Systems 5:666718. Frontiers Media (IF 5.005) <https://doi.org/10.3389/fsufs.2021.666718>
40. Fasusi O, Amoo A, **Babalola OO\*** (2021) Propagation and characterization of viable arbuscular mycorrhizal fungal spores within maize plant (*Zea mays* L.). Journal of the Science of Food and Agriculture 101:5834-5841. Wiley (IF 2.614 2019) <https://doi.org/10.1002/jsfa.11235>.
41. Fadiji AE, Ayangbenro AS and Babalola OO\* (2021)Unveiling the putative functional genes present in root-associated endophytic microbiome from maize plant using the shotgun approach. Journal of Applied Genetics 62(2) 339-351. Springer (IF 2.027 2019). <https://rdcu.be/cd6zH> <https://doi.org/10.1007/s13353-021-00611-w> [http://link.springer.com/article/10.1007/s13353-021-00611-w](http://links.springernature.com/f/a/nPxzYJ_1y6VroTvxDmnH7w~~/AABE5gA~/RgRiUWNNP0TtaHR0cDovL2xpbmsuc3ByaW5nZXIuY29tL2FydGljbGUvMTAuMTAwNy9zMTMzNTMtMDIxLTAwNjExLXc_d3RfbWM9SW50ZXJuYWwuRXZlbnQuMS5TRU0uQXJ0aWNsZUF1dGhvckFzc2lnbmVkVG9Jc3N1ZSZ1dG1fc291cmNlPUFydGljbGVBdXRob3JBc3NpZ25lZFRvSXNzdWUmdXRtX21lZGl1bT1lbWFpbCZ1dG1fY29udGVudD1BQV9lbl8wNjA4MjAxOCZBcnRpY2xlQXV0aG9yQXNzaWduZWRUb0lzc3VlXzIwMjEwNDA5VwNzcGNCCmBvzS9wYC1K66FSHG9sdWJ1a29sYS5iYWJhbG9sYUBud3UuYWMuemFYBAAABuc~)
42. Enebe MC and **Babalola OO\*** (2021) Metagenomics assessment of soil fertilization on the chemotaxis and disease suppressive genes abundance in the maize rhizosphere. Genes:12, 535. MDPI (IF 3.759) <https://doi.org/10.3390/genes12040535>
43. **Babalola OO\***, Emmanuel OC, Adeleke SA, Odelade KA, Nwachukwu BC, Ayiti OE, Adegboyega TT and Igiehon NO (2021) Rhizosphere microbiome cooperations: Strategies for sustainable crop production Research Topic: Plant Microbiome: Interactions, Mechanisms of Action, and Applications. Current Microbiology 78(4) 1069-1085. Springer Verlag (Q2; IF 1.610 2019/2020). <https://doi.org/10.1007/s00284-021-02375-2>
44. Fasusi OA, Amoo AE, Ayangbenro AS and **Babalola OO\*** (2021) Genomic analysis of a Pseudomonas strain with multiple plant growth-promoting properties. Rhizosphere 18: 100342 Elsevier (Q2; IF 1.84 2019) <https://doi.org/10.1016/j.rhisph.2021.100342> 100342https://www.sciencedirect.com/science/article/abs/pii/S2452219821000380
45. **Babalola OO\***, Du Plessis Y and Babalola SS (2021) Insight into the organizational culture and challenges faced by women STEM leaders in Africa. - Social Sciences 10(3): 105. MDPI (Citescore 1.3 scopus). <https://doi.org/10.3390/socsci10030105>
46. **Babalola OO\***, Fasusi OA, Amoo AE, Ayangbenro AS (2021) Draft genomic analysis of *Pseudomonas* sp*.* strainOA3*,* a potential plant growth-promoting rhizospheric bacterium. Microbiology Resource Announcements 10:e00029-21. American Society for **Microbiology**. <https://mra.asm.org/content/10/11/e00029-21>
47. Fadiji AE, Kanu JO, **Babalola OO\*** (2021) Metagenomic profiling of rhizosphere microbial community structure and diversity associated with maize plant as affected by cropping systems. International Microbiology 24: 325–335. Springer (IF 3.097) <https://doi.org/10.1007/s10123-021-00169-x>
48. Igiehon ON and **Babalola OO\*** (2021) Rhizobium and mycorrhizal fungal species improved soybean yield under drought stress conditions" Current Microbiology 78(4) 1615-1627. Springer Verlag (Q2; IF 1.610 2019/2020). <https://doi.org/10.1007/s00284-021-02432-w>
49. Fasusi OA and **Babalola OO\*** (2021) The multifaceted plant beneficial rhizobacteria toward agricultural sustainability- a review Plant Protection Science 57:95-111. Czech Academy of Agricultural Sciences. (Q2 Agronomy and Crop Science; IF 1.361 2019/2020) <https://doi.org/10.17221/130/2020-PPS>
50. **Babalola OO\***, Molefe RR, Amoo AE (2021) Metagenome Assembly and Metagenome-Assembled Genome Sequences from the Rhizosphere of Maize Plants in Mafikeng, South Africa. Microbiology Resource Announcements. 10:e00954-20. American Society for **Microbiology**. https://doi.org/10.1128/MRA.00954-20
51. **Babalola OO\***, Nwachukwu BC, and Ayangbenro AS (2021) High-throughput sequencing survey of sunflower soil. Microbiology Resource Announcements MRA01331-20. American Society for **Microbiology**. <https://mra.asm.org/content/10/8/e01331-20>
52. **Babalola OO\***, Molefe RR and Amoo AE (2021) Revealing the active microbiome connected with the rhizosphere soil of maize plants in Ventersdorp, South Africa. Biodiversity Data Journal 9: e60245. Pensoft Publishers (Bulgaria) (IF 1.331, Q2 Ecology). <https://doi.org/10.3897/BDJ.9.e60245>
53. Omotayo OP, **Babalola OO\*** (2021) Resident Rhizosphere Microbiome’s Ecological Dynamics and Conservation: Towards achieving the Envisioned Sustainable Development Goals, A review. International Soil and Water Conservation Research 9:127-142. Elsevier (IF 3.770 2019-2020). https://doi.org/10.1016/j.iswcr.2020.08.002 <https://www.sciencedirect.com/science/article/pii/S209563392030054X>.
54. Adeleke BS and **Babalola OO\*** (2021) Pharmacological potential of fungal endophytes associated with medicinal plants: a review. Journal of Fungi 7(2):147. MDPI (IF 5.8416 2020-2021). https://doi.org/10.3390/jof7020147
55. Alawiye TT and **Babalola OO\*** (2021) Metagenomic insight into the community structure and functional genes in the sunflower rhizosphere microbiome. Agriculture 11(2), 167. MDPI (IF 2.072, Q2 Agronomy). <https://doi.org/10.3390/agriculture11020167>
56. Fasusi OA, Cruz C and **Babalola OO\*** (2021) Agricultural Sustainability: Microbial Biofertilizers in Rhizosphere Management. Agriculture 11(2):163. MDPI (IF 2.925, Q2 Agronomy). https://doi.org/10.3390/agriculture11020163. <https://www.mdpi.com/2077-0472/11/2/163/pdf>.
57. Enebe MC and **Babalola OO\*** (2021) Soil fertilization affects the abundance and distribution of carbon and nitrogen cycling genes in the maize rhizosphere. AMB Express 11:24 Springer Verlag (IF 2.31 2018), Applied Microbiology and Biotechnology (Q2); Biophysics (Q2)). [10.21203/rs.3.rs-26191/v2](https://doi.org/10.21203/rs.3.rs-26191/v2) <https://rdcu.be/ce0ca>
58. Fadiji AE, Ayangbenro AS and **Babalola OO\*** (2021) Shotgun metagenomics reveals the functional diversity of root-associated endophytic microbiomes in maize plant” Current Plant Biology 25: 100195. Elsevier (IF 2.145). [https://authors.elsevier.com/sd/article/S2214-6628(21)00001-3](https://authors.elsevier.com/sd/article/S2214-6628%2821%2900001-3).
59. Emmanuel, OC.; Akintola, OA.; Tetteh, FM.; **Babalola, OO\*** (2021) Combined application of inoculant, phosphorus and potassium enhances cowpea yield in Savanna soils. Agronomy 11*,* 15. MDPI (IF 2.608). https://www.mdpi.com/2073-4395/11/1/15/pdf <https://doi.org/10.3390/agronomy11010015>
60. Akinola SA, Ayangbenro AS, and **Babalola OO\*** (2021) The immense functional attributes of maize rhizosphere microbiome: a shotgun sequencing approach. Agriculture 11:118. MDPI (IF 2.072, Q2 Agronomy). <https://doi.org/10.3390/agriculture11020118> <https://www.mdpi.com/2077-0472/11/2/118/pdf>
61. Nwachukwu BC, Ayangbenro AS and **Babalola OO\*** (2021) Elucidating the rhizosphere associated bacteria for environmental sustainability. Agriculture 11:75. MDPI (IF 2.072, Q2 Agronomy). <https://doi.org/10.3390/agriculture11010075>
62. **Babalola OO\***, Omotayo OP, Igiehon NO (2021) Survey of maize rhizosphere microbiome using shotgun metagenomics. Microbiology Resource Announcements 10(1) 9:e01309-20. American Society for **Microbiology.** https://doi.org/10.1128/MRA.01309-20.
63. Adegboye MF, Ojuederie OB, Talia PM, and **Babalola OO\*** (2021) Bioprospecting of microbial strains for biofuel production: Metabolic engineering, applications, and challenges. Biotechnology for Biofuels 14(5). Springer (IF 5.62 Q1). <https://doi.org/10.1186/s13068-020-01853-2> https://rdcu.be/cdbdP.
64. Alawiye TT and **Babalola OO\***(2021) Metabolomics: Current application and prospects in crop production. Biologia 76: 227-239. Springer (USA) (IF 0.811 2019). <https://link.springer.com/article/10.2478/s11756-020-00574-z>
65. Akinola S and **Babalola OO\*** (2021) The fungal and archaeal community within plant rhizosphere: A review on their contribution to crop safety. Journal of Plant Nutrition 44 (4): 600-618. Taylor and Francis (IF 1.132 2019). <https://doi.org/10.1080/01904167.2020.1845376>.
66. Chukwuneme CF, Ayangbenro AS, **Babalola OO\*** and Kutu FR (2021) Functional diversity of microbial communities in two contrasting maize rhizosphere soils. Rhizosphere 17:100282. Elsevier (IF 1.84, Q2). <https://doi.org/10.1016/j.rhisph.2020.100282>.
67. Igiehon NO, **Babalola OO\***, Cheseto X, and Torto B (2021). Effects of rhizobia and arbuscular mycorrhizal fungi on yield, size distribution and fatty acid of soybean seeds grown under drought stress. Microbiological Research 242: 126640. Elsevier (IF 3.97). <https://doi.org/10.1016/j.micres.2020.126640>

#### 2020

1. Ayangbenro AS and **Babalola OO\*** (2020) Reclamation of arid and semi-arid soils: the role of plant growth-promoting archaea and bacteria. Current Plant Biology 25:100173. Elsevier (CiteScore 3.7). <https://doi.org/10.1016/j.cpb.2020.100173>.
2. Fadiji AE and **Babalola OO\*** (2020) Exploring the potentialities of beneficial endophytes for improved plant growth. Saudi Journal of Biological Sciences 27: 3622-3633 2020. Elsevier (IF 2.802 2019). [https://authors.elsevier.com/sd/article/S1319-562X(20)30338-7](https://authors.elsevier.com/sd/article/S1319-562X%2820%2930338-7).
3. **Babalola OO\*** Chukwuneme CF, and Ayangbenro AS (2020) Shotgun Sequencing Revealed the Microbiota of Zea mays Rhizosphere of a Former Grassland and an Intensively Cultivated Agricultural Land. Microbiology Resource Announcements 9 (49):e01058-20. American Society for **Microbiology** <https://doi.org/10.1128/MRA.01058-20>.
4. Ayangbenro AS and **Babalola OO\*** (2020) Genomic analysis of *Bacillus cereus* NWUAB01 and its heavy metal removal potential. AMAB-D-20-00077/. Scientific Reports 10:19660. Nature Publishing Group. (IF 3.998 2019/2020). [www.nature.com/articles/s41598-020-75170-x](http://www.nature.com/articles/s41598-020-75170-x).
5. Ojuederie OB, Ajiboye John Adebayo, **Babalola OO\*** (2020) Biochemical and histopathological assessment of some key tissues in healthy male Wistar Rats fed with African Yam Bean (Sphenostylis stenocarpa) Seed and Tuber Meals. Journal of Food Quality 2020: 8892618. Wiley/Hindawi (IF 1.763) <https://doi.org/10.1155/2020/8892618>
6. **Babalola OO\*** and Enebe MC (2020) Metagenomes of maize rhizosphere samples after different fertilization treatments at Molelwane farm located in North West Province, South Africa. Microbiology Resource Announcements 9(43):e00937-20. American Society for **Microbiology** <https://doi.org/10.1128/MRA.00937-20>.
7. Ugbo EN, Anyamene CO, Moses IB, Iroha IR, **Babalola OO**, Ukpai EG, Chukwunwejim CR, Egbule CU, Emioye AA, Okata-Nwali OD, Igwe OF, Ugadu IO (2020) Prevalence of *bla*TEM, *bla*SHV, and *bla*CTX-M genes among extended-spectrum beta-lactamase-producing *Escherichia coli* and *Klebsiella* *pneumoniae* of clinical origin. Gene Reports 21: 100909. Elsevier (IF 0.61 2018). <https://doi.org/10.1016/j.genrep.2020.100909>
8. Adedeji AA and **Babalola OO\*** (2020) Secondary metabolites as plant defensive strategy: A large role for small molecules in the near root region. Planta 252: 61. Springer (IF 3.687 2019). <https://doi.org/10.1007/s00425-020-03468-1>.
9. **Babalola OO\***, Akinola S, and Ayangbenro AS (2020) Shotgun metagenomic survey of maize soil rhizobiome" Microbiology Resource Announcement 9:e00860-20. American Society for **Microbiology** <https://doi.org/10.1128/MRA.00860-20>.
10. **Babalola OO\***, Fadiji AE, Enagbonma BJ, Alori ET, Ayilara MS and Ayangbenro AS (2020) The nexus between plant and plant microbiome: a revelation of the networking strategies. Research Topic: Plant Microbiome: Interactions, Mechanisms of Action, and Applications. Frontiers in Microbiology, (section Microbial Symbioses)11:548037. Frontiers (IF 4.23 2019). <https://doi.org/10.3389/fmicb.2020.548037>.
11. Fadiji AE, Ayangbenro AS, **Babalola OO\*** (2020) Organic farming enhances the diversity and community structure of endophytic archaea and fungi in maize plant: a shotgun approach. Journal of Soil Science and Plant Nutrition 20: 2587-2599. Wiley (IF 2.083 2019; Q1) <https://rdcu.be/b6kpn> <https://doi.org/10.1007/s42729-020-00324-9>.
12. Adesetan, T; Efuntoye, M; **Babalola OO\*** (2020). Genotypic profiling of Bacillus cereus recovered from some retailed foods in Ogun State, Nigeria, and their phylogenetic relationship. International Journal of Microbiology. 2020: 3750948, 9 pages. Hindawi (CiteScore 3.30) <https://doi.org/10.1155/2019/3750948>.
13. Alori TE, Emmanuel OC, Glick BR, **Babalola OO\*** (2020) Plant-Archaea Relationships: A Potential Means to Improve Crop Production in Arid and Semi-arid Regions. World Journal of Microbiology and Biotechnology 36:133 Springer (IF 2.88 2019) <https://doi.org/10.1007/s11274-020-02910-6> <https://rdcu.be/b59IL>.
14. Akinola S and **Babalola OO\*** (2020) The importance of adverse soil microbiomes in the light of omics: Implications for food safety. Plant, Soil and Environment 66: 421–430. [CAAS Agricultural Journals] Czech Academy of Agricultural Sciences (IF 1.420 2019-2020; Q2). <https://doi.org/10.17221/118/2020-PSE>
15. Karthika, A., Seenivasagan, R., Kasimani, R., Babalola, O.O. and M. Vasanthy (2020). Cellulolytic bacteria isolation, screening, and optimization of enzyme production from vermicompost of paper cup waste. Waste Management 116:58-65. Elsevier (IF 5.920 2019) <https://doi.org/10.1016/j.wasman.2020.06.036>
16. Emmanuel OC and **Babalola OO\*** (2020) Productivity and quality of horticultural crops through co-inoculation of arbuscular mycorrhizal fungi and plant growth-promoting bacteria. Microbiology Research 239: 126569**.** The Netherland:Elsevier (IF 3.701 2019)<https://doi.org/10.1016/j.micres.2020.126569>
17. Ambele CF, Ekesi S, Bisseleua HDB, **Babalola OO**, Khamis FM, Djuideu CTL, Akutse KS (2020) Entomopathogenic fungi as endophytes for biological control of subterranean termite pests attacking cocoa seedlings Journal of Fungi, 6:126. MDPI (IF Nil) <https://doi.org/10.3390/jof6030126>
18. Adedeji AA, Haggblom MM, and **Babalola OO**\* (2020) Sustainable Agriculture in Africa: Plant Growth Promoting Rhizobacteria (PGPR) to the Rescue. Scientific African 9:e00492. Elsevier (CiteScore 0.2) <https://doi.org/10.1016/j.sciaf.2020.e00492>.
19. Enagbonma BJ, Ajilogba CF and **Babalola OO\*** (2020) Metagenomic profiling of bacterial diversity and community structure in termite mounds and surrounding soils. Archives of Microbiology 202:2697-2709. Springer (IF 1.884, 2019). <https://rdcu.be/b5Vgh> <https://doi.org/10.1007/s00203-020-01994-w>.
20. Fadiji AE, Ayangbenro AS and **Babalola OO\*** (2020) Metagenomic profiling of the community structure, diversity, and nutrient pathways of bacterial endophytes in maize plant, Antonie van Leeuwenhoek 113(11), 1559-1571. Springer (IF:2.674; Q2) <https://doi.org/10.1007/s10482-020-01463-w>.
21. Enebe MC and **Babalola OO\*** (2020) Effects of Inorganic and Organic Treatments on the Microbial Community of Maize Rhizosphere by a Shotgun Metagenomics approach. Annals of Microbiology 70, 49. Springer (IF 0.84).<https://doi.org/10.1186/s13213-020-01591-8> <https://rdcu.be/b509e>.
22. Adeleke BS and **Babalola OO\*** (2020). Oilseed crop sunflower (Helianthus annuus) as a source of food: Nutritional and health benefits" Food Science & Nutrition. 8(9) 4666-4684. Wiley (IF 1.797). <http://dx.doi.org/10.1002/fsn3.1783>
23. Adeleke BS and **Babalola OO\*** (2020) The endosphere microbial communities, a great promise in agriculture. International Microbiology 24:1-17 Springer (IF 1.833, 2019). <https://rdcu.be/b51eZ> <https://doi.org/10.1007/s10123-020-00140-2>
24. Adegboyega TT, Abberton MT, AbdelGadir AH, Dianda M, Maziya-Dixon B, Oyatomi OA, Ofodile S, and **Babalola OO** (2020) Evaluation of nutritional and antinutritional properties of African yam bean (Sphenostylis stenocarpa (Hochst ex. A. Rich.) Harms.) Seeds" Journal of Food Quality, Wiley-Hindawi. (IF 1.35) Article ID 6569420, 11 pages, 2020. <https://doi.org/10.1155/2020/6569420>. [https://www.hindawi.com/journals/jfq/2020/6569420/](https://www.hindawi.com/journals/jfq/2020/6569420/?utm_medium=author&utm_source=Hindawi)
25. Adeniji AA, Aremu OS, Loots DT and **Babalola OO\*** (2020) Pseudomonas fulva HARBPS9.1: candidate anti-Fusarium agent in South Africa. European Journal of Plant Pathology 157(4), 767-781. Springer (IF 1.744, 2018) https://doi.org/10.1007/s10658-020-02035-4 <https://rdcu.be/b48ff> <https://rdcu.be/b58pl>.
26. Adeniji AA, Aremu OS, Loots DT, **Babalola OO\*** (2020) Correction to: Pseudomonas fulva HARBPS9.1: candidate anti-Fusarium agent in South Africa. European Journal of Plant Pathology, 158(1), 295. Springer (IF 1.582, 2019). https://doi.org/10.1007/s10658-020-02093-8. [http://link.springer.com/article/10.1007/s10658-020-02093-8](http://links.springernature.com/f/a/veFSu-e8CDZrMotYkWWdLA~~/AABE5gA~/RgRhH5kPP0TtaHR0cDovL2xpbmsuc3ByaW5nZXIuY29tL2FydGljbGUvMTAuMTAwNy9zMTA2NTgtMDIwLTAyMDkzLTg_d3RfbWM9SW50ZXJuYWwuRXZlbnQuMS5TRU0uQXJ0aWNsZUF1dGhvckFzc2lnbmVkVG9Jc3N1ZSZ1dG1fc291cmNlPUFydGljbGVBdXRob3JBc3NpZ25lZFRvSXNzdWUmdXRtX21lZGl1bT1lbWFpbCZ1dG1fY29udGVudD1BQV9lbl8wNjA4MjAxOCZBcnRpY2xlQXV0aG9yQXNzaWduZWRUb0lzc3VlXzIwMjAwODIwVwNzcGNCCgBGj2U-X0BM79hSHG9sdWJ1a29sYS5iYWJhbG9sYUBud3UuYWMuemFYBAAABuc~)
27. Wakung’oli M, Amoo A, Enagbonma B, **Babalola OO\*** (2020) Termite societies promote the taxonomic and functional diversity of archaeal communities in mound soils. Biology 9: 136. MDPI (I.F 3.05, 2018/2019). <https://doi.org/3390/biology9060136>
28. **Babalola OO\***, Fadiji AE, Ayangbenro AS (2020) Shotgun metagenomic data of root endophytic microbiome of maize (*Zea mays* L.). Data in Brief 31:105893. Elsevier (IF 0.97 2018/19). <https://doi.org/10.1016/j.dib.2020.105893>.
29. **Babalola OO\***, Alawiye TT, Lopez CR, Ayangbenro AS (2020) Shotgun metagenomic sequencing data of sunflower rhizosphere microbial community in South Africa. Data in Brief 31:105831. Elsevier (IF 0.97 2018/19). <https://doi.org/10.1016/j.dib.2020.105831>
30. Mamphogoro TP, **Babalola OO**, Aiyegoro AO (2020) Exploitation of epiphytic bacterial antagonist for the management of post-harvest diseases of sweet pepper and other fresh produce, a viable option. Biocontrol Science and Technology 30:(8), 741-761. Taylor & Francis (IF 1.01, 2020). <https://doi.org/10.1080/09583157.2020.1775175>
31. Ayilara MS, Olanrewaju OS, **Babalola OO\*** and Odeyemi O (2020). Waste Management through Composting: Challenges and Potentials. Sustainability- 12:4456. MDPI (I.F 2.592, 2018) <https://doi.org/10.3390/su12114456>
32. Fashola MO, Ngole-Jeme VM, **Babalola OO\*** (2020) Physicochemical properties, heavy metals, and metal-tolerant bacteria profiles of abandoned gold mine tailings in Krugersdorp, South Africa. Canadian Journal of Soil Science 100(3): 217-233. Agricultural Institute of Canada. (IF 0.69, 2019). ISSN: 0008-4271. <https://doi.org/10.1139/CJSS-2018-016>1. <https://www.nrcresearchpress.com/doi/full/10.1139/cjss-2018-0161>.
33. Mamphogoro TP, Maboko MM, **Babalola OO**, Aiyegoro OA (2020) Bacterial communities associated with the surface of fresh sweet pepper (*Capsicum annuum*) and their potential as biocontrol. Scientific Reports10:8560. Nature Research (IF 4.011, 2018).<https://doi.org/10.1038/s41598-020-65587-9>.
34. Fadiji AE and **Babalola OO**\* (2020) Elucidating mechanisms of endophytes used in plant protection and other bioactivities with multifunctional prospects. Frontiers in Bioengineering and Biotechnology-Bioprocess Engineering**8:467** 532550 **Frontiers** Media S.A. (IF 5.122, Q1). <https://doi.org/10.3389/fbioe.2020.00467> ISSN 22964185.
35. Uzoh I and **Babalola OO\*** (2020) Increasing iron availability in soil and its content in cowpea (*Vigna unguiculata*) by plant growth-promoting rhizobacteria. African Journal of Food, Agriculture, Nutrition and Development (AJFAND) 20(3):15778-15799. African Scholarly Science Communications Trust. (IF 0.31, 2018). <https://doi.org/10.18697/ajfand.91.18530> ISSN 1684 5374.
36. Emmanuel OC, Akintola OA, Tetteh FM, **Babalola OO\*** (2020) Data on the vegetative response of cowpea to fertilizer application on three selected benchmark soils of the Upper West region of Ghana. Data in Brief 30:105590. Elsevier (IF 0.97 2018/19), <https://doi.org/10.1016/j.dib.2020.105590>.
37. Adedeji A and **Babalola OO\*** (2020) Rhizosphere: A Complex Determinant of Soil Microbial Community. Analele Universităţii din Oradea, Fascicula Biologie 23: 71-81. Oradea University Publishing House (IF 0.04 2018-2019). <http://www.bioresearch.ro/2020-1/071-081-AUOFB.27.1.2020-ADEDEJI.A.A.-Rhizosphere.pdf> [1224-5119](https://collections.nwu.ac.za/dbtw-wpd/exec/dbtwpub.dll?AC=GET_RECORD&XC=/dbtw-wpd/exec/dbtwpub.dll&BU=https%3A%2F%2Fcollections.nwu.ac.za%2Fdbtw-wpd%2Ftextbases%2Faccredited-journals%2Faccred.html&GI=&TN=accred&SN=AUTO7522&SE=218&RN=0&MR=0&TR=0&TX=1000&ES=1&XP=&RF=report&EF=&DF=display&RL=0&EL=0&DL=0&NP=3&ID=&MF=WpEngmsg.ini&DT=&ST=0&IR=165141&NR=0&NB=0&SV=0&SS=1&BG=&FG=&QS=accred-test2) [1844-7589](https://collections.nwu.ac.za/dbtw-wpd/exec/dbtwpub.dll?AC=GET_RECORD&XC=/dbtw-wpd/exec/dbtwpub.dll&BU=https%3A%2F%2Fcollections.nwu.ac.za%2Fdbtw-wpd%2Ftextbases%2Faccredited-journals%2Faccred.html&GI=&TN=accred&SN=AUTO7522&SE=218&RN=0&MR=0&TR=0&TX=1000&ES=1&XP=&RF=report&EF=&DF=display&RL=0&EL=0&DL=0&NP=3&ID=&MF=WpEngmsg.ini&DT=&ST=0&IR=165141&NR=0&NB=0&SV=0&SS=1&BG=&FG=&QS=accred-test2) (Online).
38. Chukwuneme CF, **Babalola OO\***, Kutu FR, and Ojuederie OB (2020) Characterization of Actinomycetes isolates for plant growth-promoting traits and effects of selected strains on drought tolerance in maize. Journal of Plant Interactions 15:93-105. Taylor & Francis (IF 4.2 2020). <https://doi.org/10.1080/17429145.2020.1752833> ISSN: 1742-9153
39. Ajilogba CF and **Babalola OO\*** (2020) Bambara groundnut soil metagenomics data. Data in Brief 30: 105542. Elsevier (IF 0.97 2018/19). <https://doi.org/10.1016/j.dib.2020.105542>.
40. Mamphogoro TP, **Babalola OO**, Aiyegoro AO (2020) Sustainable management strategies for bacterial wilt of sweet peppers (*Capsicum annuum*) and other Solanaceous crops. Journal of Applied Microbiology 129(3) 496-508. Wiley Blackwell (IF 2.683, 2018). ISSN: 0021-8847 (print); 1365-2672 (web). <https://doi.org/10.1111/jam.14653>.
41. Fadiji AE and **Babalola OO\*** (2020) Metagenomics methods for the study of plant-associated microbial communities: A review. Journal of Microbiological Methods 170 105860. Elsevier (IF 2.63 2017). <https://doi.org/10.1016/j.mimet.2020.105860>
42. Adeniji A, **Babalola OO** and Loots DT (2020). Metabolomic applications for understanding complex tripartite plant-microbes interactions: Strategies and Perspectives. Biotechnology Reports 25 e00425 Elsevier (IF 4.47 2018) <https://doi.org/10.1016/j.btre.2020.e00425>.
43. Onipede GO, Aremu BR, Sanni AI and **Babalola OO\*** (2020) Molecular Study of the Phytase Gene in Lactic Acid Bacteria Isolated from *Ogi* and *Kunun-Zaki*, African Fermented Cereal Gruel and Beverage. Applied Food Biotechnology 7:49-60. SBMU eISSN: 2423-4214. <http://dx.doi.org/10.22037/afb.v7i1.25909>
44. Fashola MO, Ngole-Jeme VM and **Babalola OO** (2020) Heavy metal immobilization potential of indigenous bacteria isolated from gold mine tailings.International Journal of Environmental Research 14: 71-86. Springer (I.F: 1.488, 2018) <https://doi.org/10.1007/s41742-019-00240-6>
45. Enagbonma BJ and **Babalola OO\*** (2020). Unveiling plant-beneficial function as seen in bacteria genes from termite mound soil. Journal of Soil Science and Plant Nutrition 20:421-430. Springer (IF 0.63 2015). <https://rdcu.be/b3E76>. https://doi.org/10.1007/s42729-019-00124-w.
46. Enagbonma BJ, Amoo AE and **Babalola OO\*** (2020) Deciphering the microbiota data from termite mound soil in South Africa using shotgun Metagenomics. Data in Brief 28: 104802 Elsevier (IF 0.97 2018/19). <https://doi.org/10.1016/j.dib.2019.104802>
47. Amoo AE, Enagbonma BJ, **Babalola OO\*** (2020) High-throughput sequencing data of soil bacterial communities from Tweefontein indigenous and commercial forests, South Africa: Data in Brief 28:104916 Elsevier (IF 0.97 2018/19). <https://doi.org/10.1016/j.dib.2019.104916> HTTPS://DOI.ORG/[10.1016/j.dib.2019.104916](https://www.researchgate.net/deref/http%3A//dx.doi.org/10.1016/j.dib.2019.104916?_sg%5B0%5D=4I3757c_nLZej9UvrKXbYSGMPlEC7KFCY-n6zmFneNwctPg2-Zlf90puDkyN71-MIBHQLOuuT6OTnFNQLbFaQTspbA.YnBb1BssYEiFYolI5iO2oXDIqDmwQFHSm96Mg4U-mJOG4nV2y8jWXAu8C3nrWODudmnGwNtcp_Kfdp0x-xZXGg&_sg%5B1%5D=4UtQKNKpwa2Vo4ZJAva3UF9RuVmhQ-sdLC3KsO3AX6Tl8tuv2_G5Pdvz2Mk8xvRjNggXlbFEnVPF.ZwzHkVd8C6D-Y9XbpSNNpRNeWjmnjReXSP9bCqrv3rwRuPOZB8Y5n9OSvhyM5Ge0WITpcyOKgfFRVIO635K6Iw). [CC BY-NC-ND 4.0](https://www.researchgate.net/deref/https%3A//creativecommons.org/licenses/by-nc-nd/4.0/?_sg=0KopClwH4D-LNSNdVDhZ05H40q6rzeh63b4VbK2MwEAPDlB-bRqo-QXnXpwzyzUKpdjkVyD4hao7O9c.rDC-5nwiKvITI44I05Jm-UCCUXSsVd1QpLSUXADczApIki-BeUBsiNAhZwhH4gdDnvT6KM1Qh5elGs99ELfrGA)

#### 2019

1. Seenivasagana, R.,Kasimani, R., Karthika, A., Rajakumar, S., **Babalola O.O.** and P.M. Ayyasamy. Optimization of prime parameters on microbial denitrification in aqueous medium using response surface methodology, *Channels in Life Sciences*, 2019, 1-1, 7-13.
2. Adesetan TO, Efuntoye MO and **Babalola OO\*** (2020). Biochemical characterization and antimicrobial susceptibility of Bacillus cereus isolated from some retailed foods in Ogun, Nigeria. Journal of Microbiology, Biotechnology and Food Sciences <https://www.jmbfs.org/in-next-issue/> ISSN: 1338-5178 Open Journal Systems. Fac of Biotech & Food Sciences, 9(3):616-621. Nitra, Slovakia (IF 2020). <https://doi.org/10.15414/jmbfs.2019/20.9.3.616-621>
3. Ojuederie OB, Olanrewaju OS and **Babalola OO\*** (2019). Plant Growth-Promoting Rhizobacterial Mitigation of Drought Stress in Crop Plants: Implications for Sustainable Agriculture. Special Issue Mechanism of Rhizosphere Microorganisms Promoting Crop Growth. Agronomy 9, 712; MDPI (IF 2.259, 2019) <https://doi.org/10.3390/agronomy9110712>.
4. Aremu BR, Prigent-Combaret C and **Babalola OO\*** (2019). Draft Genome Sequences of *Bacillus velezensis*, strain ZeaDK315Endo16. Microbiology Resource Announcements 8:46. American Society of Microbiology. <https://doi.org/10.1128/MRA.00136-19>
5. Amoo AE and **Babalola OO\*** (2019) Impact of land use on bacterial diversity and community structure in temperate pine and indigenous forest soils. Diversity 11(11), 217; MDPI (IF 2.047, 2019) <https://doi.org/10.3390/d11110217>
6. Olanrewaju OS and **Babalola OO\*** (2019) Bacterial consortium for improved maize (*Zea mays* L.) production" Microorganisms 7(11):519 MDPI (IF 4.167, 2019) <https://doi.org/10.3390/microorganisms7110519>.
7. Omomowo OI and **Babalola OO\*** (2019). Bacterial and fungal Endophytes: tiny-giant with immense beneficial potentials on plant growth and sustainable agricultural productivity. *Microorganisms 7*: 481 MDPI (IF 4.167, 2018) <https://doi.org/10.3390/microorganisms7110481>
8. Odelade KA and **Babalola OO\*** (2019). Bacteria, Fungi and Archaea Domains in the Rhizosphere Soil and their Effects in Enhancing Agricultural Productivity. Int. J. Environ. Res. Public Health, 16, 3873. MDPI (IF 2.468, 2018) <https://doi.org/10.3390/ijerph16203873>
9. Alawiye TT and **BabalolaOO\*** (2019). Bacterial diversity and community structure in typical plant rhizosphere. Diversity 11:179 MDPI (IF 2.047, 2019) <https://doi.org/10.3390/d11100179>
10. Adegboyega TT, Abberton MT, AbdelGadir AAH, Dianda M, Maziya-Dixon B, Oyatomi OA, Ofodile S and **Babalola OO** (2019). Nutrient and Antinutrient Composition of Winged Bean (*Psophocarpus tetragonolobus* (L.) DC.) Seeds and Tubers. Journal of Food Quality. Volume 2019, Article ID 3075208, 8 pages. Wiley-Hindawi (IF 1.36, 2019) <https://doi.org/10.1155/2019/3075208>
11. Ambele CF, Bisseleua HDB, Akutse KS, **Babalola OO**, Humbert P, Patel A, Vidal S and Ekesi S (2019). Testing a co-formulation of CO2 releasing material with an entomopathogenic fungus for the management of subterranean termite pests. Mycological Progress 18:1201-1211. Springer (IF 2.0). <https://doi.org/10.1007/s11557-019-01517-y>
12. Enagbonma BJ, Aremu BRand **Babalola OO**\*(2019). Profiling the functional diversity of termite mound soil bacteria as revealed by shotgun sequencing. Genes 10: 637. MDPI (IF 3.242, 2015) <https://doi.org/10.3390/genes10090637>
13. Omotayo OP, Omotayo AO, **Babalola OO** and Mwanza M (2019). Comparative study of aflatoxin contamination of winter and summer ginger from the North West Province of South Africa. Toxicology Reports 6:489-495. Elsevier (CiteScore: 2.73) <https://doi.org/10.1016/j.toxrep.2019.05.011>
14. Enagbonma BJ and **Babalola OO\*** (2019). Environmental sustainability: contributions of termite mound soil material and its bacteria. Sustainability 11, 3847; MDPI, (I.F 2.592, 2018) <https://doi.org/10.3390/su11143847>
15. Igiehon NO, **Babalola OO\*** and Aremu BR (2019). Genomic Insights into Plant growth-promoting rhizobia capable of enhancing soybean germination under drought stress. BMC Microbiology 19:159. Springer Nature (I.F:3.287). https://rdcu.be/bKyEy <https://doi.org/10.1186/s12866-019-1536-1>
16. Adeniji AA and **Babalola OO\*** (2019) Genome Sequence of Lipopeptide and Antioxidant Producing Strain *Bacillus* velezensis NWUMFkBS10.5. Microbiology Resource Announcement. 8(999). American Society for Microbiology. 8:e00595-19. <https://doi.org/10.1128/MRA.00595-19>
17. **Babalola OO\***, Ayangbenro AS and Olanrewaju OS (2019). Draft genome sequences of three rhizospheric plant growth-promoting bacteria. Microbiology Resource Announcements 8 (26):e00455-19. American Society for Microbiology. <https://doi.org/10.1128/MRA.00455-19>
18. Omotayo OP, Omotayo AO, **Babalola OO** and Mwanza M (2019). Dataset on the Toxic effects of Aflatoxin and Ochratoxin A. Data in Brief 25:104089. Elsevier (IF 0.85). <https://doi.org/10.1016/j.dib.2019.104089>
19. Uzoh IM, Igwe CA, Okebalama CBand **Babalola OO**\* (2019). Legume-maize rotation effect on maize productivity and soil fertility parameters under selected agronomic practices in sandy loam soil. Scientific Reports 9: 8539. Springer Nature Publishing AG (I.F: 4.6, Q1). <https://doi.org/10.1038/s41598-019-43679-5>.
20. **Babalola OO\*** and Ayangbenro AS (2019). Draft Genome Sequence of Pseudomonas koreensis Strain AB36, Isolated from Gold Mining Soil'' Microbiology Resource Announcement 8:e00175-19. 999(8). American Society for Microbiology. <https://doi.org/10.1128/MRA00175-19>.
21. Ajilogba CF and **Babalola OO\*** (2019). GC-MS analysis of volatile organic compounds from Bambara groundnut rhizobacteria and their antibacterial properties. World Journal of Microbiology and Biotechnology 35(5):83. Springer Netherlands (I.F: 2.1). ISSN: 0959-3993 (Print) 1573-0972 (Online) <https://doi.org/10.1007/s11274-019-2660-7> <https://rdcu.be/bEDEO>
22. Ayangbenro AS, **Babalola OO** ⃰ and Aremu SO (2019). Bioflocculant production and heavy metal sorption by metal resistant bacterial isolates from gold mining soil. Chemosphere 231: 113-120. Elsevier (IF 4.427, Q1). <https://doi.org/10.1016/j.chemosphere.2019.05.092>
23. Adeniji A, Loots DT and **Babalola OO**\* (2019). Bacillus velezensis: phylogeny, useful applications, and avenues for exploitation. Applied Microbiology and Biotechnology 103(9):3669-3682. Springer (I.F: 3.34). <https://doi.org/10.1007/s00253-019-09710-5>
24. Alori ET, **Babalola OO** and Prigent-Combaret C (2019). Impacts of microbial inoculants on the growth and yield of maize plants. The Open Agriculture Journal 13:1-8. Bentham Science Publishers B.V. (IF 0.86). <https://doi.org/10.2174/1874331501913010001>
25. **Babalola OO\***, Aremu BR and Ayangbenro A (2019). Draft genome sequence of heavy metal resistant Bacillus cereus NWUAB01. Microbiology Resource Announcements 8(7). e01706-18. American Society for Microbiology. <https://doi.org/10.1128/MRA.01706-18>
26. Elemike EE, Uzoh IM, Onwudiwe DC and **Babalola OO** (2019). The role of nanotechnology in the fortification of plant nutrients and improvement of crop production. Applied Sciences 9:499. MDPI (I.F: 1.855). ISSN 2076-3417 <https://doi.org/10.3390/app9030499>
27. Enagbonma BJ and **Babalola OO\*** (2019). Potentials of termite mound soil bacteria in ecosystem engineering for sustainable agriculture. Annals of Microbiology 69(3): 211-219. Springer (IF 1.607). <https://doi.org/10.1007/s13213-019-1439-2>
28. Omotayo OP, Omotayo AO, Mwanza M and **Babalola OO** (2019). Prevalence of Mycotoxins and Their Consequences on Human Health. Toxicological Research 2019; 35(1): 1-7. Korean Association of Medical Journal Editors. (IF 1.89). ISSN 1976-8257. <https://doi.org/10.5487/TR.2019.35.1.001>
29. Arneodo JD, Etcheverry C, Thebe T, **Babalola OO**, Godoy MC and Talia P (2019). Molecular evidence that cellulolytic bacterial genus *Cohnella* is widespread among Neotropical Nasutitermitinae from NE Argentina. Revista Argentina de Microbiología 51: 77-80. Elsevier, Argentina. (IF 0.51) https://doi.org/10.1016/j.ram.2017.11.008 LicenseCC BY-NC-ND 4.0. <https://doi.org/10.1016/j.ram.2017.11.0082007>
30. Olanrewaju OS and **Babalola OO\*** (2019). Streptomyces: implications and interactions in plant growth promotion. Applied Microbiology and Biotechnology 103(3): 1179-1188. Springer (IF 3.34). <https://doi.org/10.1007/s00253-018-09577-y> <https://rdcu.be/bePf1>
31. Olanrewaju OS, Ayangbenro AS, Glick BR; and **Babalola OO\*** (2019). Plant health: feedback effect of root exudates-rhizobiome interactions. Applied Microbiology and Biotechnology 103(3) 1155-1166. Springer Berlin (IF 3.34). https://doi.org/10.1007/s00253-018-9556-6. [https://rdcu.be/bd2Nr](http://em.rdcu.be/wf/click?upn=lMZy1lernSJ7apc5DgYM8ZxOSct6-2BCoCPQVLIiTvzjg-3D_cA9-2BIzmyUmDbTIaQsfadujDOCZM534jp6aMFpNt24dmtDfJKiShmk4bSXC7a2gJ-2BhhZRIbqX2s9BU9e6N4eolxtA-2BHdV-2FlNCFzcuWh-2F628b0Msutu9hYAMxxaoSPMAnxtstB-2Bl-2Bsao8EYum9CAO0CQnj24YJXajq-2BLmCaobhRGu7Lqq-2BklIvZL2cM037t0RKOcW5KUyh9jyb8ABqr1RLFMtp71dkDeIGQF2OfcIyx7uuRujsJLKx81l7MabCEil6vgLK8mzIqBRSX-2FgdHFUCSA-3D-3D)
32. Adeniji A, Aremu OS and **Babalola OO**\* (2019). Selecting lipopeptide‐producing, Fusarium‐suppressing Bacillus spp.: Metabolomic and genomic probing of Bacillus velezensis NWUMFkBS10.5. *MicrobiologyOpen*. 2019;8:e742. Wiley (IF 2.738 2018). <https://doi>. org/10.1002/mbo3.742.
33. Enebe MC and **Babalola OO\*** (2019). The impact of microbes in the orchestration of plants resistance to biotic stress: a disease management approach. Applied Microbiology and Biotechnology 103(1)9-25. Springer (IF 3.42). <https://doi.org/10.1007/s00253-018-9433-3>
34. Igiehon NO and **Babalola OO\*** (2019). Fungal bio-sorption potential of chromium in Norkrans liquid medium by shake flask technique. Journal of Basic Microbiology 59:62-73. Wiley-VCH. (IF 1.58) <http://dx.doi.org/10.1002/jobm.201800011>

#### 2018

1. Bello OO, **Babalola OO**, Adegboye MF, Fashola M and Bello KT (2018). Partial purification, characterization, and application of bacteriocin from bacteria isolated from *Parkia biglobosa* seeds. Natural and Engineering Sciences 3:72-94. Cemal Turan <https://dx.doi.org/10.28978/nesciences.424517> ISSN: 2458-8989. (NS)
2. Ambele FC, Bisseleua DBH, Ekesi S, Akutse KS, Djuideu CTCL, Meupia MJ and **Babalola OO** (2018). Consequences of shade management on the taxonomic patterns and functional diversity of termites (*Blattodea: Termitoidae*) in cocoa agroforestry systems. Ecology and Evolution 8(23). Wiley (IF 3.14).<https://doi.org/10.1002/ece3.4607>
3. Trögl J, Esuola C, Kříženecká S, Kuráň P, Seidlová L, Dáňová P, Popelka J, **Babalola OO**, Hrabák P, Czinnerová M, Kakosová E, Ševců A and Tischler D (2018). Biodegradation of high concentrations of aliphatic hydrocarbons in soil from a petroleum refinery: Implications for applicability of new actinobacterial strains. Applied Sciences 8, 1855 MDPI (IF 1.689) <https://doi.org/10.3390/app8101855>.
4. Masowa MM, Kutu FR, **Babalola OO** and Mulidzi RA (2018). Physico-chemical properties and phytotoxicity assessment of co-composted winery solid wastes with and without effective microorganism inoculation. Research on Crops 19: 549-559 (2018). Gaurav Society of Agricultural Research Information Centre. Gaurav publisher. (IF 0.102) <https://doi.org/10.31830/2348-7542.2018.0001.29>
5. Alori ET and **Babalola OO\*** (2018). Microbial inoculants improve crop quality and human health. Research Topic: Improving the Human Health-Promoting Properties of Crop Products by means of Beneficial Microbes. Frontiers in Microbiology 19:2213, section Plant-Microbe Interactions. Frontiers Media SA (CH). (IF 4.165, Q1) <https://doi.org/10.3389/fmicb.2018.02213>
6. Igiehon NO and **Babalola OO\*** (2018). Below-ground-above-ground plant-microbial interactions: focusing on soybean, rhizobacteria, and Mycorrhizal fungi". The Open Microbiology Journal 12, 261-279. Bentham Open (IF 2.27) <https://doi.org/10.2174/1874285801812010261>
7. Ayangbenro AS and **Babalola OO\*** (2018). Metal(loid) Bioremediation: Strategies Employed by Microbial Polymers" Sustainability (Special Issue Bio and Phytoremediation of Contaminated Soils) 10(9) 3028. Molecular Diversity Preservation International, MDPI (I.F 2.23) <http://www.mdpi.com/2071-1050/10/9/3028/pdf>
8. Ayangbenro AS, Olanrewaju OS and **Babalola OO\*** (2018). Sulfate-reducing bacteria as an effective tool for sustainable acid mine bioremediation. Frontiers in Microbiology 9:1986. Frontiers Media SA (CH). (IF 4.019, Q1) <https://doi.org/10.3389/fmicb.2018.01986>
9. Enebe MC and **Babalola OO\*** (2018). The Influence of Plant Growth Promoting Rhizobacteria in Plant Tolerance to Abiotic Stress: a Survival Strategy. Applied Microbiology and Biotechnology 102(18): 7821-7835. Springer (IF 3.42) <https://doi.org/10.1007/s00253-018-9214-z>
10. Adegboye MF, Lobb B, **Babalola OO**, Doxey A and Ma K (2018). Draft genomes of two novel cellulolytic *Streptomyces* strains isolated from South African rhizosphere soils. Genome Announcements 6(26). American Society for Microbiology (IF 1.18). <https://doi.org/10.1128/genomeA.00632-18> . LicenseCC BY 4.0.
11. Uzoh M and **Babalola OO\*** (2018). Rhizosphere biodiversity as a premise for application in bioeconomy. Agriculture, Ecosystems & Environment. 265:524-534. Elsevier (IF 4.09, Q1). <https://doi.org/10.1016/j.agee.2018.07.003>
12. Adeniji A and **Babalola OO** (2018). Tackling Maize Fusariosis: In Search of *Fusarium graminearum* Biosuppressors. Archives of Microbiology 200(8): 1239-1255. Springer Berlin Heidelberg (IF 1.667). <https://doi.org/10.1007/s00203-018-1542-y> Online ISSN 1432-072X.
13. Ambele F, Bisseleua H, **Babalola, OO** and Ekesi S (2018). Soil-dwelling insect pests of tree crops in Sub-Saharan Africa, problems and management strategies. Journal of Applied Entomology 142: 539-552. Wiley (IF2.22) <https://onlinelibrary.wiley.com/doi/abs/10.1111/jen.12511>*.* https://doi.org/10.1111/jen.12511
14. Igiehon NO and **Babalola OO\*** (2018). Rhizosphere microbiome modulators: contributions of nitrogen-fixing bacteria towards sustainable agriculture. International Journal of Environmental Research and Public Health. 15: 574. MDPI (IF 2.79) <https://doi.org/10.3390/ijerph15040574>.
15. Arumugam K, Renganathan S, **Babalola,** **OO and** Muthunarayanan V (2018).Investigation on paper cup waste degradation by a bacterial consortium and *Eudrillus eugeinea* through vermicomposting. Waste Management 74: 185-193. Elsevier (I.F: 2.77, Q1). <https://doi.org/10.1016/j.wasman.2017.11.009>

#### 2017

1. Amoo AE and **Babalola OO\*** (2017). Ammonia-oxidizing microorganisms: Key players in increment of plant growth. Journal of Soil Science and Plant Nutrition 17: 935-947 SeiELO, Chile. (IF 1.6) <http://dx.doi.org/10.4067/S0718-95162017000400008>.
2. Ojuederie OB and **Babalola OO\*** (2017). Microbial and plant-assisted bioremediation of heavy metal polluted environments: A review. International Journal of Environmental Research and Public Health 14(12) 1504. MDPI (IF 2.79) <https://doi.org/10.3390/ijerph14121504>.
3. Olanrewaju, OS, Glick BR and **Babalola OO\*** (2017). Mechanisms of action of plant growth-promoting rhizobacteria. World Journal of Microbiology and Biotechnology 33: 197. Springer, Netherlands (IF: 1.658) <https://doi.org/10.1007/s11274-017-2364-9>
4. Egbuta M, Mwanza M and **Babalola OO** (2017). Health risks associated with exposure to filamentous fungi. International Journal of Environmental Research and Public Health 14, 719 MDPI (IF 2.79) <https://doi.org/10.3390/ijerph-201550>
5. Igiehon NO and **Babalola OO\*** (2017). Biofertilizers and sustainable agriculture: exploring arbuscular mycorrhizal fungi. Applied Microbiology and Biotechnology. 101: 4871-4881. Springer (IF 3.376) <https://doi.org/10.1007/s00253-017-8344-z>
6. Alori ET, Glick BR and **Babalola OO\*** (2017). Microbial phosphorus solubilization and its potential for use in sustainable agriculture. Frontiers in Microbiology. 8, 971. Frontiers Media SA (CH). (IF 4.165, Q1) <https://doi.org/10.3389/fmicb.2017.00971>
7. Karthika A, Seenivasagan R, Kasimani R, Naresh Kumar S and **Babalola OO** (2017). Enhancing the post-consumer waste management through vermicomposting along with bioinoculum. International Journal of Engineering Trends and Technology, 44(4), 179-182 SSRG® (IF 2.06) <https://doi.org/10.14445/22315381/IJETT-V44P235>
8. Seenivasagan R, KasimaniR, **BabalolaOO,** Karthika A, Rajakumar S and Ayyasamy PM (2017). Effect of various carbon source, temperature and pH on nitrate reduction efficacy in mineral salt medium enriched with *Bacillus weinstephnisis* (DS45). Groundwater for Sustainable Development 5:21-27. ISSN: 2352-801X. Elsevier (CiteScore 7.9). <https://doi.org/10.1016/j.gsd.2017.03.002>
9. Ndeddy Aka R J and **Babalola** **OO\*** (2017). Identification and characterization of Cr-, Cd-, and Ni-tolerant bacteria isolated from mine tailings. Bioremediation Journal 21(1): 1-19. Taylor & Francis Online (IF 1.098). <http://dx.doi.org/10.1080/10889868.2017.1282933>
10. Ahmed AAQ, **Babalola OO** and McKay T (2017). Cellulase and xylanase producing bacterial isolates with the ability to saccharify wheat straw and their potential use in the production of pharmaceuticals and chemicals from lignocellulosic materials. Waste and Biomass Valorization 9:765-775. Springer (IF 1.337) <https://doi.org/10.1007/s12649-017-9849-5>
11. Ayangbenro AS and **Babalola OO\*** (2017). A new strategy for the heavy metal polluted environment: A review of microbial biosorbents. International Journal of Environmental Research and Public Health 14:94. MDPI (IF 2.79). <https://doi.org/10.3390/ijerph14010094>

#### 2016

1. Egbuta MA, Mwanza M and **Babalola OO** (2016). A Review of the Ubiquity of Ascomycetes Filamentous Fungi in Relation to Their Economic and Medical Importance. Advances in Microbiology 6:1140-1158. Scientific Research Publishing (IF 0.56) <https://doi.org/10.4236/aim.2016.614103>
2. Esuola CO, **Babalola OO**, Heine T, Schwabe R and Schlömann M (2016). Identification and characterization of a FAD-dependent putrescine N-hydroxylase (GorA) from *Gordonia rubripertincta* CWB2. Journal of Molecular Catalysis B: Enzymatic 134: 378–389. Elsevier (IF 2.48) <http://www.sciencedirect.com/science/article/pii/S1381117716301473>
3. Fashola MO, Ngole-Jeme VM, **Babalola OO\*** (2016). Heavy metal pollution from gold mines: environmental effects and bacterial strategies for resistance. International Journal of Environmental Research and Public Health 13:1047. MDPI (IF 2.79) <https://doi.org/10.3390/ijerph13111047>.
4. Esuola CO, **Babalola OO**, Heine T, Schlömann M, Tischler D and Akinyemi SOS (2016). Horticultural crops development: the importance of fine chemicals production from microbial enzymes. Acta Horticulturae 1110, 7-12. Publisher: International Horticultural Congress; International Society for Horticultural Science (IF 0.17). <https://doi.org/10.17660/ActaHortic.2016.1110.2>
5. Ndeddy Aka R J and **Babalola OO\*** (2016). Effect of bacterial inoculation of strains of *Pseudomonas aeruginosa*, *Alcaligenes feacalis,* and *Bacillus subtilis* on germination, growth, and heavy metal (Cd, Cr, and Ni) uptake of *Brassica juncea*. International Journal of Phytoremediation 18(2): 200-209. Taylor & Francis Online (IF 1.79). <https://doi.org/10.1080/15226514.2015.1073671>

#### 2015

1. Aremu BR and **Babalola OO\*** (2015). Classification and taxonomy of vegetable macergens. Frontiers in Microbiology 6: 1361. Frontiers Media SA (CH). (IF 3.989, Q1) <http://dx.doi.org/10.3389/fmicb.2015.01361>
2. Aremu BR and **Babalola OO**\* (2015). Construction of specific primers for rapid detection of South African exportable vegetable macergens. International Journal of Environmental Research and Public Health 12: 12356-12370. MDPI (IF 2.035) [https://doi.org/10.3390/ijerph121012356. ISSN 1660-4601](https://doi.org/10.3390/ijerph121012356.%20ISSN%201660-4601)
3. Akindolire MA, **Babalola OO** and Ateba CN (2015). Detection of antibiotic-resistant *Staphylococcus aureus* from milk: a public health implication. International Journal of Environmental Research and Public Health 12:10254-10275. MDPI (IF 2.79) [https://doi.org/10.3390/ijerph120910254 ISSN 1660-4601](https://doi.org/10.3390/ijerph120910254%20ISSN%201660-4601)
4. Verma B, Kumar P, Karthik L, Dhanasekaran D, **Babalola OO** and Banakar SP (2015). Gas Chromatography-Mass Spectrometry analysis and Antibacterial activity of extracted Bluish-Green pigment from *Pseudomonas* sp. JJTBVK (KF836502) isolated from desert soil *Brazilian Archives of Biology and Technology* 58(4) 628-635. [http://www.scielo.br/pdf/babt/v58n4/1516-8913-babt-58-04-00628.pdf. ISSN 1516-8913](http://www.scielo.br/pdf/babt/v58n4/1516-8913-babt-58-04-00628.pdf.%20ISSN%201516-8913)

#### 2014

1. Ahmad F, **Babalola OO** and Wu HF (2014). Potential of MALDI-TOF mass spectrometry as a detection tool to identify plant-parasitic nematodes. Journal of Nematology 46(2) 132-132. Exeley (IF 0.35) <https://doi.org/10.1007/s00216-012-6091-7>
2. Ahmad F and **Babalola OO** (2014). Application of mass spectrometry as a rapid detection tool in plant nematology. Applied Spectroscopy Reviews 49: 1-10. (IF 4.254) <https://doi.org/10.1080/05704928.2013.798799>
3. Parihar K, **Babalola OO**, Rehman B, Siddiqui MA and Ahmad F (2014). Phytodiversity conservation through evaluation of nematicidal properties of latex bearing plants against *Meloidogyne javanica*. Journal of Pure and Applied Microbiology 8(3): 2047-2057. [Oriental Scientific Pub. Co.](http://www.scimagojr.com/journalsearch.php?q=Oriental%20Scientific%20Pub.%20Co.&tip=pub) (IF 0.22). [www.microbiologyjournal.org/jmabsarchive.php?vol=8&issue=3](http://www.microbiologyjournal.org/jmabsarchive.php?vol=8&issue=3).
4. Ojo A, Dare MO, Fagbola O and **Babalola OO** (2014). Variations in infectivity of indigenous rhizobial isolates of some soils in the rainforest zone of Nigeria. Archives of Agronomy and Soil Science 61:371-380. (IF 1.12). <https://doi.org/10.1080/03650340.2014.933811>
5. **Babalola OO\*** (2014). Does nature makes provision for backups in the modification of soil bacterial community structures? Biotechnology and Genetic Engineering Reviews 30: 31-48. Taylor & Francis (IF 1.81) <http://dx.doi.org/10.1080/02648725.2014.921497>
6. Bumunang EWand **Babalola OO\*** (2014). Characterization of Plant Growth Promoting Rhizobacteria from Field Grown Genetically Modified (GM) and Non-GM Maizes. *Brazilian Archives of Biology and Technology* 57: (1) 1-8 Instituto de Tecnologia do Parana. (IF 0.546) <http://www.scielo.br/scielo.php?pid=S1516-89132014000100001&script=sci_arttext>. ISSN 1516-8913.

#### 2013

1. Ajilogba CF, **Babalola OO\*** and Ahmad F (2013). Antagonistic effects of *Bacillus* species in biocontrol of tomato *Fusarium* wilt. Studies on Ethno-Medicine 7(3): 205-216. ISSN 0973-5070. (IF 0.61) <http://www.krepublishers.com/02-Journals/S-EM/EM-07-0-000-13-Web/S-EM-07-3-000-13-Abst-PDF/S-EM-07-3-205-13-296-Ajilogba-C-F/S-EM-07-3-205-13-043-Ajilogba-C-F-Ab.pdf>.
2. Rehman B, Ahmad F, **Babalola OO**, Ganai MA, Parihar K and Siddiqui MA (2013). Usages of botanical extracts for the management of root-knot nematode, *Meloidogyne incogenita* in chickpea. Journal of Pure and Applied Microbiology 7(3): 2385-2388. [Oriental Scientific Pub. Co.](http://www.scimagojr.com/journalsearch.php?q=Oriental%20Scientific%20Pub.%20Co.&tip=pub) (IF 0.13). www.microbiologyjournal.org/ ISSN 0973-7510
3. Ajilogba CF and **Babalola OO\*** (2013). Integrated management strategies for tomato *Fusarium* wilt. Biocontrol Science (Japan) 18(3): 117-127. (ISSN 13424815) J-Stage (IF 1.312) <https://www.jstage.jst.go.jp/article/bio/18/3/18_117/_pdf>
4. Kodisang SL, Adegboye MF, Sobowale AA, Okoh AI and **Babalola OO\*** (2013). Genotypic and phenotypic diversity of culturable rhizobacteria from field-grown crops in Mahikeng, South Africa. Journal of Food Agriculture and Environment 11(2): 583-590. (ISBN ISSN 1459-0255) WFL Publisher Ltd (IF 0.435) <http://world-food.net/genotypic-and-phenotypic-diversity-of-culturable-rhizobacteria-from-field-grown-crops-in-mahikeng-south-africa/>
5. Ahmad F and **Babalola OO** (2013). Application of mass spectrometry as a rapid detection tool in plant nematology. Applied Spectroscopy Reviews. 49:1, 1-10. <https://doi.org/10.1080/05704928.2013.798799> Taylor & Francis Online. (IF 3.109) http://www.tandfonline.com/doi/pdf/10.1080/05704928.2013.798799 (ISSN: 0570-4928).
6. Bumunang EW and **Babalola OO\*** and Barros E (2013). Bacterial community profiling in the rhizosphere of field-grown GM and non-GM maize. Journal of Pure and Applied Microbiology 7(1): 157-164. [Oriental Scientific Pub. Co.](http://www.scimagojr.com/journalsearch.php?q=Oriental%20Scientific%20Pub.%20Co.&tip=pub) (IF 0.13). <https://microbiologyjournal.org/archive_mg/jmabsread.php?snoid=1074&month=&year=>
7. Tak HI, **Babalola OO,** Huyser MH and Inam A (2013). Urban wastewater irrigation and its effect on growth, photosynthesis, and yield of chickpea under different doses of potassium. Soil Science and Plant Nutrition (Japan). 59(2): 156-167. <https://doi.org/10.1080/00380768.2012.761570> ISSN. 0029-0610. E ISSN. 0911-9973 <http://ci.nii.ac.jp/vol_issue/nels/AA00844314_en.html>Taylor & Francis Online (IF 1.96).

#### 2012 and older (ten) selected papers

1. Ahmad F, **Babalola OO** and Tak HI (2012). Potential of MALDI-TOF mass spectrometry as a rapid detection technique in plant pathology: identification perspective of plant-associated microorganisms. Analytical and Bioanalytical Chemistry 404(4): 1247-1255. Springer (IF 3.659) <https://doi.org/10.1007/s00216-012-6091-7>
2. **Babalola OO\*** and Glick BR (2012). The use of microbial inoculants in African agriculture: current practice and future prospects. Journal of Food, Agriculture, and Environment (Finland) 10 (3 & 4): 540-549. (ISSN: 1459-0263). [www.world-food.net](http://www.world-food.net) WFL Publisher Ltd (IF 0.425).
3. Ahmad F, Siddiqui MA, **Babalola OO** andWu HF(2012). Biofunctionalization of nanoparticle assisted mass spectrometry as biosensors for rapid detection of plant-associated bacteria.Biosensors and Bioelectronics 35: 235-242. Elsevier (IF 6.409, Q1) <https://doi.org/10.1016/j.bios.2012.02.055>. ISSN: 0956-5663 [www.ivgreens.com/science/journal/aip/09565663](http://www.ivgreens.com/science/journal/aip/09565663)
4. **Babalola OO**\* and Akindolire AM (2011). Identification of native rhizobacteria peculiar to selected food crops in Mmabatho municipality of South Africa. Biological Agriculture and Horticulture (UK) 27(3-4):294-309. Taylor & Francis Online (IF 0.56) **ISSN** 0144-8765 (Print), 2165-0616 (Online). [www.tandfonline.com/doi/pdf/10.1080/01448765.2011.647798](http://www.tandfonline.com/doi/pdf/10.1080/01448765.2011.647798).
5. **Babalola OO\*** (2010). Pectinolytic and cellulolytic enzymes enhance *Fusarium* *compactum* virulence on tubercles infection of Egyptian broomrape. International Journal of Microbiology. Article ID 273264, 7 pages Hindawi (IF 0.97). <https://doi.org/10.1155/2010/273264>
6. **Babalola OO\*** (2010). Exogenous cellulase contributes to mycoherbicidal activity of *Fusarium* *arthrosporioides* on *Orobanche aegyptiaca.* International Journal of Agronomy Article ID 963259, 4 pages. Hindawi (IF 0.34) <https://doi.org/10.1155/2010/963259>
7. **Babalola OO\*** (2010). Beneficial bacteria of agricultural importance. Biotechnology Letters 32(11) 1559-1570. Springer (IF 2.04) ISSN: 0141-5492 E-ISSN: 1573-6776. <https://doi.org/10.1007/s10529-010-0347-0>
8. **Babalola OO\*** (2009). Asporogenic mutants of *Alternaria* *cassiae* generated by X-ray irradiation. Journal of Culture Collections 6:85–96. (Bulgaria) JournalSeek. ISSN 1310-8360. <http://www.bioline.org.br/pdf?cc09011>
9. **Babalola OO**, Kirby BM, Le Roes-Hill B, Cook A, Burton SG, Cowan DA (2009). Phylogenetic analysis of actinobacterial populations associated with Antarctic Dry Valley mineral soils. Environmental Microbiology 11(3):566–576. (USA) Wiley Online. (IF 6.28). <https://onlinelibrary.wiley.com/doi/full/10.1111/j.1462-2920.2008.01809.x>
10. **Babalola OO\***, Sanni AI, Odhiambo GD and Torto B (2007). Plant growth-promoting rhizobacteria do not pose any deleterious effect on cowpea, and detectable amounts of ethylene are produced. World Journal of Microbiology and Biotechnology (The Netherlands). 23 (6):747–752. Springer (IF 2.477 2019) ISSN: 0959-1354 <http://dx.doi.org/10.1007/s11274-006-9290-6>
11. **Babalola OO**\* (2007). Pectinase and cellulase enhance the control of*Abutilon theophrasti* by *Colletotrichum coccodes*. Biocontrol Science and Technology (UK). 17(1–2): 53–61 ISSN:0958-3157. Taylor and Francis (IF 1.215 2019-2020, Q2 Agronomy and Crop Science) <http://dx.doi.org/10.1080/09583150600828783>

## Preprint/Non-peer reviewed articles (\*Corresponding Author)

1. Ajiboye, T.T.; Ayangbenro, A.S.; **Babalola, O.O**. Functional Diversity of Microbial Communities in the Soybean (Glycine max L.) Rhizosphere from Free State, South Africa. Preprints **2022**, 2022070113. <https://doi.org/10.20944/preprints202207.0113.v1>
2. Alori ET; Dimowo FO; Olaniyan FT; Adekiya AO; Ayorinde BB; Daramola FY; **Babalola OO** (2022) The effects of plant growth-promoting bacteria on lead uptake by Chromolaena odorata (Siam weed). Preprint <https://doi.org/10.21203/rs.3.rs-1525259/v1>
3. Adegboyega TT, Abberton MT, Abdelgadir AH, Mahamadi D, Olaniyi OA, Ofodile S, **Babalola OO** (2021). Variation in winged bean (Psophocarpus tetragonolobus) growth parameters, seed yield, nodulation and nitrogen fixation. Asian Journal of Agriculture 5(2): 61-71. Doi: 10.13057/asianjagric/g050203 <https://smujo.id/aja/article/view/8054/5092>
4. Chukwuneme CF, **Babalola OO**\*, Kutu FR, Ojuederie OB (2020) Biochemical and Molecular Characterization, and Bioprospecting of Drought Tolerant Actinomycetes from Maize Rhizosphere Soil. bioRxiv MS: 094003. **MS ID#: BIORXIV/2020/094003.** <https://biorxiv.org/cgi/content/short/2020.05.13.094003v1>, QR code: <https://connect.biorxiv.org/qr/2020.05.13.094003>
5. Ajilogba CF and **Babalola OO\*** (2020) Bambara groundnut- preprint 10.1101/2020.02.27.964346 bioRxiv<https://biorxiv.org/cgi/content/short/2020.02.27.964346v1>

<https://www.editorialmanager.com/psb/l.asp?i=43717&l=33BPDYRE> <https://doi.org/10.1101/2020.02.27.964346>

## Book chapters (Total: 24) (\*Corresponding Author)

#### 2021

1. **Babalola OO\***, Alaribe SC, Olatunji OA, Bigambo PN, et al. (2021) African women scientists’ COVID-related experiences: Reflecting on the challenges and suggesting ways forward. In: African Universities and the COVID-19 Pandemic. Eds: Jackson-Malete J and Jamison A**.** Alliance for African Partnership Perspectives (AAPP) 1:89-100. Michigan State University Press, USA. <https://muse.jhu.edu/issue/46803> <https://muse.jhu.edu/article/837368/pdf>
2. **Babalola OO** (2022, in press) Food Security and Safety: African Perspectives, Volume 2, Springer Nature Switzerland AG. Editors **Babalola OO**, Ayangbenro AS, Ojuederie OB.
3. Amaresan N, Dhanasekaran D, **Babalola OO** (2022) Agricultural Microbiology based Entrepreneurship. Entrepreneurship in Microbiology: Making money from microbes Editors: Dr. N. Amaresan, Dr. D. Dhanasekaran, Prof. Olubukola O. Babalola. **ISBN-13:** 9789811957468. [Springer Nature Singapore](https://www.barnesandnoble.com/s/%22Springer%2BNature%2BSingapore%22?Ntk=Publisher&Ns=P_Sales_Rank&Ntx=mode+matchall) . Series**:** Microorganisms for Sustainability, #39, **Edition description:** 1st ed. 2023. <https://www.barnesandnoble.com/w/agricultural-microbiology-based-entrepreneurship-natarajan-amaresan/1141757529?ean=9789811957468>
4. Amaresan N, Dhanasekaran D, **Babalola OO** (2022) Food Microbiology based Entrepreneurship: Making money from microbes Editors: Dr. N. Amaresan, Dr. D. Dhanasekaran, Prof. Olubukola O. Babalola. ISBN-13**:** 9789811950407. Springer Nature Singapore, 1st ed. 2022 <https://www.barnesandnoble.com/w/food-microbiology-based-entrepreneurship-natarajan-amaresan/1141677068?ean=9789811950407>
5. Ojuederie OB, Chukwuneme FC, Olanrewaju OS, Ayilara MS, Adegboyega TT, and **Babalola OO\*** (2021, In Press) Contribution of Microbial Inoculants in Sustainable Maintenance of Human Health, including Test Methods and Evaluation of Safety of Microbial Pesticide Microorganisms. In: Biopesticides: botanicals and microorganisms for improving agriculture and human health. Eds: T.O. Adejumo and R.T. Voegele, 283pp. Publisher: Cuvillier Verlag, Göttingen, Nonnenstieg 8, 37075 Göttingen, Germany. Sponsor: Alexander von Humboldt Foundation, Sponsorship and Network Department. Jean-Paul-Str. 12, 53173 Bonn, Germany. 207-240.
6. OjuederieOB, Popoola JO, Aremu C, **Babalola OO\*** (2021)Harnessing the Hidden Treasures in African Yam Bean (Sphenostylis stenocarpa), An Underutilized Grain Legume with Food Security Potentials. In: Food Security and Safety: Africa’s Perspective. edited by Babalola OO. eBook ISBN 978-3-030-50672-8, Hardcover ISBN 978-3-030-50671-1. DOI: 10.1007/978-3-030-50672-8. Pp XXV,992. <https://www.springer.com/gp/book/9783030506711>.
7. Sholeye AR, OjuederieOB and **Babalola OO\*** (2021)Soil Quality Indicators; Their correlation and Role in Enhancing Agricultural Productivity. In: Food Security and Safety: Africa’s Perspective. Edited by Babalola OO. eBook ISBN 978-3-030-50672-8, Hardcover ISBN 978-3-030-50671-1. DOI: 10.1007/978-3-030-50672-8. Pp XXV,992.<https://www.springer.com/gp/book/9783030506711>.
8. Uzoh IM, Okebalama-Obika CB, Igwe CA and **Babalola OO\*** (2021).Management of Soil-Microorganism: Interphase for Sustainable Soil Fertility Management and Enhanced Food Security. In: Food Security and Safety: Africa’s Perspective. Edited by Babalola OO. eBook ISBN 978-3-030-50672-8, Hardcover ISBN 978-3-030-50671-1. DOI: 10.1007/978-3-030-50672-8. Pp XXV,992. <https://www.springer.com/gp/book/9783030506711>.
9. Chukwuneme CF, Uzoh IM, Kutu FR and **Babalola OO\*** (2021)Food Sustainability Enhancement: Plant Growth-Promoting Bacteria as Key Players in The Alleviation of Drought Stress in Plants. In: Food Security and Safety: Africa’s Perspective. Edited by Babalola OO. eBook ISBN 978-3-030-50672-8, Hardcover ISBN 978-3-030-50671-1. DOI: 10.1007/978-3-030-50672-8. Pp XXV,992. <https://www.springer.com/gp/book/9783030506711>.
10. Amoo AA, Enagbonma BJ, Ayangbenro AS and **Babalola OO\*** (2021).Biofertilizer: An Eco-Friendly Approach for Sustainable Crop Production. In: Food Security and Safety: Africa’s Perspective. Edited by Babalola OO. eBook ISBN 978-3-030-50672-8, Hardcover ISBN 978-3-030-50671-1. DOI: 10.1007/978-3-030-50672-8. Pp XXV,992. <https://www.springer.com/gp/book/9783030506711>.
11. Ajilogba CF, **Babalola OO\*** and Nikoro DO (2021). Nanotechnology as Vehicle for Biocontrol of Plant Diseases in Crop Production. In: Food Security and Safety: Africa’s Perspective. edited by Babalola OO. eBook ISBN 978-3-030-50672-8, Hardcover ISBN 978-3-030-50671-1. DOI: 10.1007/978-3-030-50672-8. Pp XXV,992. <https://www.springer.com/gp/book/9783030506711>.

#### 2019

1. Ahmed AHQ, Odelade KA and **Babalola OO\*** (2019). Microbial Inoculants for Improving Carbon Sequestration in Agroecosystems to Mitigate Climate Change: In: Handbook of Climate Change Resilience. "Climate Change Management Series" edited by **Leal Filho W**. Section: Climate change resilience in transportation, energy, forestry and water/coastal infrastructure. Section Editors: Prof. Christine Kirchhoff, Dr. Joyce Guimares Monteiro, Dr. Sabrina Bonetto, Prof. Otienoh Oguge, Prof. Gustavo J Nagy, Dr. Francesco Ciari, Prof. Alexander Paz ID: 119 <https://www.haw-hamburg.de/en/ftz-nk/publications/series.html> Springer, Cham Springerhttps://link.springer.com/content/pdf/10.1007%2F978-3-319-71025-9\_119-1.pdf DOI: <https://doi.org/10.1007/978-3-319-93336-8_119> ISBN: 978-3-319-93336-8 Pages 381-401.

#### 2017

1. Alori ET, Dare M.O. and **Babalola OO\*** (2017). Microbial inoculants for soil quality and plant fitness. Agronomy for Sustainable Development Chapter 9 (pages 281-308). Volume 22. ISBN: 978-3-319-48005-3. 09-876BAB <http://www.springer.com/journal/13593>. DOI 10.1007/978-3-319-48006-0. Editor: Eric Lichtfouse. Springer International Publishing Switzerland. Pp. 281-308. (I.F. 4.14).
2. Seenivasagan R, Ayyasamy PM, Kasimani R, Karthika A, Rajakumar S and **Babalola OO** (2017).Nitrate removal from ground water through lab scale bioreactor using dissimilatory nitrate reducer *Bacillus weihenstephanensis* (DS45). In:Bioremediation and Sustainable Technologies for Cleaner Environment. M. Prashanthi, R. Sundaram, A. Jeyaseelan, T. Kaliannan (Eds.), Series: Environmental Science. Ch. 8. ISBN\_978-3-319-48438-9. Springer International Publishing AG. **DOI:** 10.1007/978-3-319-48439-6. 434pp. Part of the series Environmental Science and Engineering pp 79-94 <http://www.springer.com/gp/book/9783319484389?wt_mc=Internal.Event.1.SEM.ChapterAuthorCongrat>.
3. Karthika A, Seenivasagan R, Kasimani R, **Babalola OO**and Vasanthy M (2017). The Role of Eudrillus eugenia in the Degradation of Paper Cup Waste and the Morphological, Physiological and Histological Changes in the Organism. Bioremediation and Sustainable Technologies for Cleaner Environment. Part 1, Environmental Science and Engineering pp 65-76. ISBN\_978-3-319-48438-9. Springer International Publishing AG. **Doi**: 10.1007/978-3-319-48439-6\_7 <http://www.springer.com/gp/book/9783319484389?wt_mc=Internal.Event.1.SEM.ChapterAuthorCongrat>.
4. Cruz C, Catarina G, Dias T, Varma A and **Babalola OO** (2017). How to Disentangle Changes in Microbial Function from Changes in Microbial Community, In. Modern Tools and Techniques to Understand Microbes – Ajit Varma, Arun Kumar Sharma Springer link.springer.com/book/10.1007%2F978-3-319-49197-4 **DOI** 10.1007/978-3-319-49197-4\_10 149 10.1 Pages 149-158.
5. Cruz C, Ramos A, **Babalola** OO, Kamel H, Dias T and Varma A (2017). Soil: do not disturb, Mycorrhiza in action. In: Mycorrhiza Function, Diversity, State of the Art. Eds: Varma A, Prasad R, and Tuteja N. **DOI**: 10.1007/978-3-319-53064-2\_3 ISBN: 978-3-319-53064-2 978-3-319-53063-5. Web: https://link.springer.com/chapter/10.1007/978-3-319-53064-2\_3 Springer International Publishing Pages 27-38.
6. Aremu BR, Alori ET, Kutu RF and **Babalola OO\*** (2017). Potentials of Microbial Inoculants in Soil Productivity: An Outlook on African Legumes. **Chapter 3**. In: Panpatte DG, Jhala YK, Vyas RV, Shelat HN (eds) Microorganisms for Green Revolution. Pp 53-75. Microorganisms for Sustainability, vol 6. Springer, Singapore. DOI <https://doi.org/10.1007/978-981-10-6241-4_3>. Print ISBN: 978-981-10-6240-7. Online ISBN 978-981-10-6241-4.
7. Ajilogba CF, Olanrewaju OS and **Babalola OO\*** (2017). Application of Bioinoculants for Seed Quality Improvement. **Chapter 14**. In: Panpatte DG., Jhala YK., Vyas RV., Shelat H. (eds) Microorganisms for Green Revolution pp 265-280. Microorganisms for Sustainability, vol 6. Springer, Singapore. DOI <https://doi.org/10.1007/978-981-10-6241-4_14>. Online ISBN 978-981-10-6241-4. Print ISBN 978-981-10-6240-7. Online ISBN 978-981-10-6241-4.
8. **Babalola OO\***, Olanrewaju OS, Dias T, Ajilogba CF, Kutu FR and Cruz C (2017). Biological Nitrogen Fixation: The Role of Underutilized Leguminous Plants. **Chapter 20.** In: Panpatte D., Jhala Y., Vyas R., Shelat H. (eds) Microorganisms for Green Revolution. Pp 431-443. Microorganisms for Sustainability, vol 6. Springer, Singapore. DOI <https://doi.org/10.1007/978-981-10-6241-4_20>. Print ISBN 978-981-10-6240-7. Online ISBN 978-981-10-6241-4.

#### 2015

1. Vacheron J, Renoud S, Muller D, **Babalola OO** and Prigent-Combaret C (2015). “Handbook for Azospirillum. Technical Issues and Protocols” "Everything practical you always wanted to know about Azospirillum sp. but were afraid to ask". Alleviation of Abiotic and Biotic Stresses in Plants by Azospirillum. Editor: Fabricio Dario Cassan, Yaacov Okon, Cecilia M. Creus Springer International Publishing AG. pp 333-365. ISBN: 3319065424, 9783319065427 (514pp) link.springer.com/content/pdf/10.1007%2F978-3-319-06542-7\_19.pdf. DOI: 10.1007/978-3-319-06542-7

#### 2014

1. Lawal TE and **Babalola OO\*** (2014). Agriculture and Environmental Pollution: Causes, Consequences and Control. In: Agriculture Ecology and Environment. Bharti PK and Babalola OO. (Eds). 1st Edition. Discovery Publishing house PVT. LTD. New Delhi. Pg 1-26. **ISBN: 978-93-5056-480-6**. EB/2013/257/AEE ENVBOOKS series, Delhi, India.

#### 2013

1. Tak HI, Ahmad F and **Babalola OO\*** (2013). Advances in the application of PGPR in phytoremediation of heavy metals. Reviews of Environmental Contamination and Toxicology ISBN: 0007-4861(print version) **ISSN: 1432-0800** (electronic version). Vol. 223: 33-52 Editor Whitacre DM. [http://www.springer.com/environment/environmental+toxicology/book/978-1-4614-5576-9](http://www.springer.com/environment/environmental%2Btoxicology/book/978-1-4614-5576-9). DOI: 10.1007/978-1-4614-5577-6\_2.
2. Adegboye MF and **Babalola OO\*** (2013). Actinomycetes: a yet inexhaustive source of bioactive secondary metabolites. In: Microbial pathogens and strategies for combating them: science, technology and education. Microbiology Book Series Number #4, Volume 2. Editor Mendez-Vilas A., December 2013 Edition. Formatex Research Center, Spain. Pg 786-795. **ISBN-13 Vol. 2: 978-84-942134-0-3**. http://www.formatex.info/microbiology4/vol2/786-795.pdf or <http://www.formatex.info/microbiology4>

#### 2008

1. **Babalola OO\*** (2008). Pectinase and cellulase enhance mycoherbicidal activity of *Fusarium arthrosporoides* on *Orobanche aegyptiaca*: In Biotechnology for Food, Environment and Agriculture. Vol. 1. (Thangadurai D, Tang W, Ramachandran A, Moraes I.O, and Pinheiro de Carvalho M.A.A. editors) Agrobios (India), Chapter 6, pp 291. **ISBN: 9788177543490** [www.thebooksplanet.com/products/Bio](http://www.thebooksplanet.com/products/Bio)<http://www.uread.com/book/biotechnology-food-environment-agriculture-volume/9788177543490>

#### 2007

1. Gressel J, Meir S, Herschkovitz Y, Al-Ahmad H, Greenspoon I, **Babalola OO** and Amsellem Z (2007). Approaches to and successes in developing transgenically enhanced mycoherbicides: In Novel biotechnologies for biocontrol agent enhancement and management. (M. Vurro and J. Gressel editor) Springer (The Netherlands), pp 297–305. **ISBN 978-1-4020-5797-7.** NATO Security through Science Series A: Chemistry and Biology
2. Gressel J, Meir S, Herschkovitz Y, Al-Ahmad H, **Babalola OO** and Amsellem Z(June 2007).Chapter 23, pp 313-324.Transgenic biocontrol agents to overcome evolutionary barriers: In Integrating new technologies for *Striga* control. Towards ending the Witch-hunt edited by Gebisa Ejeta and Jonathan Gressel. 356pp. World Scientific Publishing Co. Pte. Ltd, Singapore. **ISBN 10-981-270-708-5** (Witchweeds (*Striga* species) decimate agriculture in much of Africa and parts of Asia, attacking the major cereal grains and legumes, and halving the already very low yields of subsistence farmers. This book discusses the development of knowledge-based control strategies for dealing with *Striga*).

## Books

1. **Babalola OO** (2022, in press) Food Security and Safety: African Perspectives, Volume 2, Springer Nature Switzerland AG. Editors **Babalola OO**, Ayangbenro AS, Ojuederie OB.
2. Amaresan N, Dhanasekaran D, **Babalola OO** (2022) Agricultural Microbiology based Entrepreneurship. Entrepreneurship in Microbiology: Making money from microbes Editors: Dr. N. Amaresan, Dr. D. Dhanasekaran, Prof. Olubukola O. Babalola. **ISBN-13:** 9789811957468. [Springer Nature Singapore](https://www.barnesandnoble.com/s/%22Springer%2BNature%2BSingapore%22?Ntk=Publisher&Ns=P_Sales_Rank&Ntx=mode+matchall) . Series**:** Microorganisms for Sustainability, #39, **Edition description:** 1st ed. 2023. <https://www.barnesandnoble.com/w/agricultural-microbiology-based-entrepreneurship-natarajan-amaresan/1141757529?ean=9789811957468>
3. Amaresan N, Dhanasekaran D, **Babalola OO** (2022) Food Microbiology based Entrepreneurship: Making money from microbes Editors: Dr. N. Amaresan, Dr. D. Dhanasekaran, Prof. Olubukola O. Babalola. ISBN-13**:** 9789811950407. Springer Nature Singapore, 1st ed. 2022 <https://www.barnesandnoble.com/w/food-microbiology-based-entrepreneurship-natarajan-amaresan/1141677068?ean=9789811950407>
4. **Babalola OO** (2021) Food Security and Safety: African Perspectives, Springer Nature Switzerland AG. Editor Babalola OO. eBook ISBN 978-3-030-50672-8, Hardcover ISBN 978-3-030-50671-1. DOI: 10.1007/978-3-030-50672-8. Pp XXV,992. <https://www.springer.com/gp/book/9783030506711>.
5. Bharti PKand **Babalola OO** (2014) Agriculture Ecology and Environment. Discovery Publishing House, Delhi, pp: 213 (ISBN: 978-93-5056-480-6). <http://www.bagchee.com/books/BB92301/agriculture-ecology-and-environment/>

## Online resources

1. Babalola OO (Oct 8, 2021) NWU Open Day. Part 3: Environmental, Biological, and Agricultural based programs <https://www.youtube.com/watch?v=7Jy0oHPRyk8> (2.54.08).
2. BabalolaOO (2021) Academic blazes trails for women in Science in Africa. <https://www.nwu.ac.za/sites/www.nwu.ac.za/files/files/i-media/eng-eish-202106/science.html#a> [eish6\_eng\_science (nwu.ac.za)](https://www.nwu.ac.za/sites/www.nwu.ac.za/files/files/i-media/eng-eish-202106/science.html#a) . **eish!** is the staff newsletter of the NWU
3. BabalolaOO (2021) Using plant growth-promoting microorganisms to address food sustainability <https://news.nwu.ac.za/using-plant-growth-promoting-microorganisms-address-food-sustainability>
4. BabalolaOO (2021) OWSD Vision statement: <https://www.youtube.com/watch?v=TB7ecbLK4J8>
5. BabalolaOO (2021) ISME Conversations 2-Olubukola Babalola <https://www.youtube.com/watch?v=ya7QzVUGd5o&t=6s>
6. Akinola S and Babalola OO (2021). Raw sequences have been publicly available on NCBI SRA database under the project numbers [PRJNA645371](https://www.ncbi.nlm.nih.gov/bioproject/645371) and [PRJNA645385](https://www.ncbi.nlm.nih.gov/bioproject/645385) for the rhizosphere and bulk samples of Lichtenburg and Randfontein sites
7. Adesetan and Babalola OO (2020). GenBank accession number(s) for your nucleotide sequence(s): SUB7762503 Consensus\_WR140 MT757957 - SUB7762503 Consensus\_SG118 MT757963. SUB7785479 Consensus\_139 MT772282; SUB7785479 Consensus\_99 MT772283; SUB7785479 Consensus\_84 MT772284; SUB7785479 Consensus\_46 MT772285; SUB7785479 Consensus\_6 MT772286
8. Babalola OO (2019). Metagenomic and comparative analysis of key microbiome in termite's environment deposited in NCBI as BioProject ID PRJNA526912; samples accession number: SRX5709032; SRX5687852; SRX5685969; SRX5685892; SRX5685320; SRX5684890; SRX5684517; and SRX5516832
9. Babalola OO (2018). Unveiling the functional profile of termite mound soil bacteria using shotgun metagenomics. NCBI BioProject ID PRJNA525146; samples accession number: SRX5453887; SRX5453457; SRX5453456; SRX5453372; SRX5453341; SRX5453340; SRX5453339; and SRX5453050
10. The raw Illumina sequencing reads for this project have been submitted to the National Centre for Biotechnology Information Short Read Archive (SRA) database with accession no. PRJNA529905. This Targeted Locus Study (TLS) project have been deposited at DDBJ/EMBL/GenBank under the accession KDDL00000000.
11. Ajilogba CF and **Babalola OO** (2020) Bambara groundnut rhizosphere Metagenomics data deposited in SRA as BioProject ID: PRJNA422360 and samples were given BioSample accession: SAMN12662353-SAMN12662362
12. Adeniji A and **Babalola OO** (March 29, 2020) GenBank accession numbers SUB5673098 PRJNA544897 SAMN11866291 JAASGY000000000 Bacillus thuringiensis MORW\_BS1.1. Whole Genome Shotgun project has been deposited at DDBJ/ENA/GenBank under the accession JAASGY000000000. Version JAASGY010000000.
13. Adeniji A and **Babalola OO** ( June 2018) GenBank accession numbers SUB2662059 MF098599 to SUB2662059 MF098612
14. Chukwuneme CF, **Babalola OO** and Kutu FR. (13-DEC-2017) GenBank accession number: MG669347. <https://www.ncbi.nlm.nih.gov/nuccore/MG669347>
15. Chukwuneme CF, **Babalola OO** and Kutu FR (06-DEC-2017) GenBank accession numbers: MG640368-MG640369. <https://www.ncbi.nlm.nih.gov/nuccore/MG640369.1>
16. Chukwuneme CF, **Babalola OO** and Kutu R (18-NOV-2017) GenBank accession numbers MG547867-MG547870. <https://www.ncbi.nlm.nih.gov/nuccore/MG547870.1>
17. Esuola CO, **Babalola OO**, Schlomann M, and Tischler D (Dec 2017) BankIt1924243 gorA KX345394-KX345396
18. Igiehon, NO. and **Babalola, OO** (Nov 2017) GenBank accession numbers MG309874 MG309875 <http://www.ncbi.nlm.nih.gov/nuccore/MG309874>
19. Adedayo, A.O., Ajilogba, CF. and **Babalola, OO** (Nov 2017) GenBank accession numbers KY322397-KY322402. https://www.ncbi.nlm.nih.gov/nuccore/KY322397
20. Adeniji A and **Babalola OO** (June 2017) Whole Genome Shotgun project deposited at DDBJ/ENA/GenBank, accession NITU00000000, version NITU01000000. https://www.ncbi.nlm.nih.gov/nuccore/NITU00000000
21. Onipede, G.O., Sanni. AI., **Babalola, OO** (Feb 2017) SUB2432696 WMO04 KY649479/ SUB2432696 WMO06 KY649480/ SUB2432696 WMO07 KY649481/ SUB2432696 WMO08 KY649482 /SUB2432772 YMO16 KY655026/ SUB2432772 YMO17/ KY655027/ SUB2432772 YMO19 KY655028/ SUB2432772 YMO20 KY655029/ SUB2432772 YMO24 KY655030/SUB2432779/ RSO05 KY655340/ SUB2432779 RSO10 KY655341/ SUB2432779 RSO17 KY655342/SUB2432779 RSO22 KY655343/ SUB2432779/ RSO27 KY655344/ SUB2432779 RSO29 KY655345/SUB2432904 KNZ01 KY655809/ SUB2432904 KNZ08 KY655810/SUB2516771/ KNZ04 KY817128/ SUB2516771 KNZ11 KY817129/ SUB2516771 KNZ13 KY817130/ SUB2516771 KNZ14 KY817131/ SUB2516771/ KNZ16 KY817132/ SUB2516771 KNZ19 KY817133/ SUB2516771 KNZ21 KY817134/ SUB2516771 KNZ22 KY817135/SUB2516771/ KNZ23 KY817136/ SUB2516771 RSO02 KY817137/ SUB2516771 RSO03 KY817138/ SUB2516771 RSO04 KY817139/ SUB2516771/ RSO07 KY817140/ SUB2516771 RSO20 KY817141/SUB2518496 RSO31 KY817119/ SUB2518496 WMO14 KY817120/ SUB2518496/ WMO18 KY817121/ SUB2518496 YMO05 KY817122/ SUB2518496 YMO08 KY817123/ SUB2518496 YMO11 KY817124/ SUB2518496 YMO13 KY817125/ SUB2518496 YMO14 KY817126/ SUB2518496 YMO28/ KY817127/BankIt2010283 YMO17/ KY987113/ BankIt2010283 RSO17 KY987114/ BankIt2010283 KNZ11 KY987115
22. Adesetan, T.O., Efuntoye, M.O. and **Babalola, OO** (April 2017) GenBank KX574760-KX574769/ GenBank KX610811-KX610820. Bacillus cereus strain 16S ribosomal RNA gene, partial sequence. https://www.ncbi.nlm.nih.gov/nuccore/KX574760
23. Fashola, M.O., **Babalola, OO** and Ngole-Jeme, V. (01 July, 2016) GenBank accession numbers KX485322 KX485325/ KY000694-KY000700. https://www.ncbi.nlm.nih.gov/nuccore/KX485322
24. Ajilogba, CF. and **Babalola, OO** (Sept 8th, 2016) GenBank accession numbers KX809651 KX809656. https://www.ncbi.nlm.nih.gov/nuccore/KX809651
25. Ajilogba, CF. and **Babalola, OO** (July 26th, 2016) GenBank accession numbers KX588093-KX5881014. https://www.ncbi.nlm.nih.gov/nuccore/KX588093
26. Olanrewaju, O. and **Babalola, OO** (2016) GenBank accession numbers KX453173-KX453175; JX284398; JX284407; JX860372. https://www.ncbi.nlm.nih.gov/nuccore/KX453173
27. Mosetlhe, O, Adegboye, MF and **Babalola, OO** (2016) GenBank KX576500-KX576509. https://www.ncbi.nlm.nih.gov/nuccore/KX576500.
28. Aremu, BR. and **Babalola, OO** (April 30, 2016) GenBank accession numbers KU143750-KU143773. https://www.ncbi.nlm.nih.gov/nuccore/KU143750.
29. Motsewabangwe, K.R and **Babalola OO** (Jun 2015) GenBank accession numbers KX355793-KX355799. https://www.ncbi.nlm.nih.gov/nuccore/KX355793
30. Ndeddy Aka, R. J. and **Babalola, OO** (Jan 2015) GenBank accession numbers KP717553 KP717563. https://www.ncbi.nlm.nih.gov/nuccore/KP717553
31. Aremu, BR. and **Babalola, OO** (July 13, 2015) GenBank accession numbers KP899920-KP899932. https://www.ncbi.nlm.nih.gov/nuccore/KP899920
32. Aremu, BR. and **Babalola, OO** (July 12, 2015) GenBank accession numbers KP792433-KP792449. https://www.ncbi.nlm.nih.gov/nuccore/KP792433
33. Aremu, BR. and **Babalola, OO** (March 1, 2015) GenBank accession numbers KP114439-KP114448. https://www.ncbi.nlm.nih.gov/nuccore/KP114439
34. Aremu, BR. and **Babalola, OO** (December 28, 2014) GenBank accession numbers KM924134-KM924145. https://www.ncbi.nlm.nih.gov/nuccore/KM924134
35. Aremu, BR. and **Babalola, OO** (August 24, 2014) GenBank accession numbers KJ784522-KJ784534. <https://www.ncbi.nlm.nih.gov/nuccore/KJ784522>
36. Adegboye, MF. and **Babalola, OO** (March 2014) GenBank accession numbers KJ542369-KJ542390. https://www.ncbi.nlm.nih.gov/nuccore/KJ542369
37. Motsewabangwe, K.R., Adegboye, MF., and **Babalola, OO** (Nov 2013) KJ124573-KJ124595. https://www.ncbi.nlm.nih.gov/nuccore/KJ124573
38. Khantsi, M., Adegboye, MF. and **Babalola, OO** (Feb 2013) GenBank accession numbers JX971505.1 JX971517.1. https://www.ncbi.nlm.nih.gov/nuccore/JX971505.1
39. Masenya, K., Adegboye, MF. and **Babalola, OO** (Feb 2013) GenBank accession numbers JX971518-JX971533. https://www.ncbi.nlm.nih.gov/nuccore/JX971533
40. Adegboye, MF. and **Babalola, OO** (2012) GenBank accession numbers JX284398‑JX284407/JX860342 – JX860399.
41. **Babalola, OO** (2010). Introductory developmental cell biology. School of Science and Technology course material, National Open University press, Victoria Island, Lagos, Nigeria. (History and present trends in cell biology; reproduction, cell division, cell differentiation and growth of cells. A brief study of the molecular basis of cell structure and development. Organelles, proteins and nucleic acids). www.nou.edu.ng/noun/NOUN\_OCL/pdf/pdf2/BIO%20205.pdf
42. Kirby BM, **Babalola OO**, et al (2009) Uncultured actinobacterium clone A243A5 16S ribosomal RNA gene, partial sequence. Accession numbers EU931044 to EU931071 (2009); Accession numbers EU931072 to EU931097 (2009); Accession numbers EU931098 to EU931109 (2009) [www.ncbi.nlm.nih.gov/pubmed/19278445](http://www.ncbi.nlm.nih.gov/pubmed/19278445)

## Proceedings

1. Bello OO, Bello TK., **Babalola OO** and Olu-Aderounmu WO (2020). Antibiogram of bacterial flora of public health significance associated with postharvest Irvingia gonensis seeds. The Proceedings of the Nigerian Academy of Science 13(1) 13-29. [ORIGINAL RESEARCH ARTICLE - Antibiogram of bacterial flora of public health significance associated with postharvest Irvingia gabonensis seeds in Lagos State, Nigeria | Bello | Proceedings of the Nigerian Academy of Science (nasjournal.org.ng)](http://nasjournal.org.ng/index.php/pnas/article/view/249/120)
2. **Babalola OO** (2019). Academy of Science of South Africa (ASSAf), Annual Young Scientists’ Conference, “Winning the Fight Against Corruption: A trans-disciplinary approach. [Available online] DOI http://dx.doi.org/10.17159/assaf.2019/0045. Published by: Academy of Science of South Africa (ASSAf) Sept 13-14. 2018. Conference proceedings. SAYAS. ASSAF. Protea Hotel, OR Tambo, **Gauteng, South Africa**.
3. Ayangbenro AS and **Babalola OO** (2018). Biosurfactant production and heavy metal resistance of Bacillus cereus isolated from gold mining soil. The 3rd International Conference on Integrated Environmental Management for Sustainable Development (ICIEM-2018). **Sousse, Tunisia**. 02 – 05 May 2018. Conference proceedings ISSN 1737-3638. Paper id: 128, Password: 3084dc. Iciem-conference.com
4. Ahmed AAQ, **Babalola OO** and McKay T (2016). Lignin degradation by two isolated *Bacillus* sp. and their co-culture potential in the production of platform chemicals from Lignin. CHEMTECH '16, IV. International Chemical Engineering and Technologies Conference, **Istanbul, Turkey**. ISBN: 978-605-9207-54-6, Metin Copy Plus, Mollafenari Mah., Türkocağı Cad. 3/1, Mahmutpaşa <http://www.dakam.org/digital-library>.
5. Ajilogba CF, **Babalola OO** and Adebola PO (2016). Evaluation of PGPR and biocontrol activities of bacteria isolated from Bambara groundnut rhizosphere. 17th European Congress on Biotechnology (ECB2016) 3-6 July 2016, **Krakow, Poland**. http://ecb2016.com/
6. Aremu BR and **Babalola OO** (2015). Specific identification of macergens from South African exportable vegetables by PCR using specific primers. 29th Effost International Conference Proceedings. Food Science Research and Innovation. Delivering sustainable solutions to the global economy and society. Food microbiology: New research areas and predictive/monitoring tools for efficient and sustainable risk and food safety assessment and management EFFOST2015\_0739. 10-13th Nov 2015. Athens, **Greece**. <https://elsevier.conference-services.net/programme.asp?conferenceID=3891&action=prog_categories>. ISBN: 978-618-82196-1-8. Editor: Dermesonlouoglou E., Giannou V., Gogou E. & Taoukis P.
7. Alori ET, Fawole OB, Afolayan AJ, and **Babalola OO** (2015). Arbuscular Mycorrhizal Fungi:Occurrence and factors affecting their distribution in selected soils of Southern Guinea Savanna ofNigeria. 29th Effost International Conference. Food Science Research and Innovation. Deliveringsustainable solutions to the global economy and society. **Food science and process engineering research applications contributing to food security and water conservation** EFFOST2015\_0755. 10-13th Nov 2015. Athens, **Greece.** <http://www.effost2015.org/proceedings.php>**.** Pages 2020-2026. ISBN: 978-618-82196-1-8. Editor: Dermesonlouoglou E., Giannou V., Gogou E. & Taoukis P.

## Conference Abstracts

1. **Babalola OO\*** (2022) Cereal and legume Security in a changing climate via agroecological tools. Subtheme Bottom-up and system-wide capacity development approaches to enhance CSA practices. Biennial Africa Climate Smart Agriculture Stakeholders Conference. 14th-16th September, Accra, **Ghana**
2. Nji QN, **Babalola OO**, Ekwomadu TI, Nleya N, Mwanza M (2022) Biodiversity and Distribution of *Aspergillus* species and Their Toxins in commercial Maize from Western and Eastern Regions of South Africa. Theme 7:(Current and Future Challenges To Ensure Food Safety). 3rd African Society of Mycotoxicology (ASM) Joint Mytox-South Conference. Sept 4-7, **Stellenbosch, South Africa**. <https://asmmytox.com/>
3. Ayangbenro AS and **Babalola OO** (2022) Soybean rhizosphere microbial community and functional diversity. 5th Annual BIO Africa Convention: 2**7th** - 31st August 2022. Africa Resilient: Life Sciences Innovation for Achieving Health and Food Security. **Durban, South Africa**.
4. Nwachukwu BC, Ayangbenro AS, **Babalola OO** (2022) Amplicon profiling of rhizosphere bacterial community structure and diversity associated with sunflower plant as influenced by cropping system. Poster PS16.141. 18th International Symposium on Microbial Ecology, ISME18, 14-19 August 2022, **Lausanne, Switzerland**.
5. Ayangbenro AS and **Babalola OO\*** (2022) Microbial community structure and function in the soybean rhizosphere. Poster PS16.020. 18th International Symposium on Microbial Ecology, ISME18, 14-19 August 2022, **Lausanne, Switzerland**.
6. Akanmu AO, Dlamini SP, Fadiji AE, **Babalola OO\*** (2022) Maize rhizosphere modulates the microbial community structure and functions to enhance plant health. Africa Food Safety Workshop. Emperor’s Palace Convention centre. 27 June -1 July 2022, Johannesburg.
7. Adeleke BS, **Babalola OO** (2022) **Next-generation Sequencing Reveals Endophytic Bacteria Diversity and Functions of Sunflower"**ASM MICROBE Events, June 9-13, 2022; **Washington DC** Control number 1625.
8. Odelade KA, **Babalola OO** (2022) Cowpea ecological niche harbored microbial phyla of varied nutrient preferences and metabolic properties. 3rd Plant Microbiome Symposium. May 24-27, 2022; Bonar Hall. Dundee, Scotland, UK.

#### 2021

1. Adeleke BS, **Babalola OO** (2021) *Effect of endophytic bacterium, Stenotrophomonas maltophilia strain JVB5 on Sunflower.* Cold Spring Harbor Laboratory Conference. Plant Genomes, Systems Biology and Engineering (**Virtual**)December 1, 2021, to December 3, 2021
2. **Babalola OO**\*(2021) The plant microbiome to promote the growth of agricultural crops in Africa. The Department of Science and Innovation (DSI) seventh annual Science Forum South Africa (SFSA). Dec 1-3. SFSA 2021 digital platform co-hosted with the CSIR International Convention Centre as part of the Tshwane Science Diplomacy Capital initiative. South Africa.
3. **Babalola OO\***(2021) The 6th (Sixth) International Conference for Women in Science Without Borders (WISWB). *Building a gender inclusive sustainable future through Science, Technology and Innovation.* Nov 3-5, 2021 **Kenya**. wiswbconference2021@embuni.ac.ke or [WISWB Conference (embuni.ac.ke)](https://wiswbconference.embuni.ac.ke/index.php/component/jevents/eventsbyyear/2021/13?Itemid=101).
4. Nwachukwu BC, Ayangbenro AS, **Babalola OO\*** (2021, **Virtual**) Structural and Respiration Profiles of Microbial Communities from Sunflower Plant Soils. Biodiversity Genomics 2021. 27 Sept -1 October Wellcome Genome Campus, Hinxton, Cambridgeshire, CB10 1SA. **UK**. https://www.sanger.ac.uk/science/biodiversity-genomics-2020/
5. Omotayo OP and Babalola OO (2021, **Virtual**) Fusarium verticillioides of maize plants: promising biocontrol agents to the rescue. Plant productivity and food safety: *Soil science, Microbiology, Agricultural Genetics and Food quality. 15th-17th September2021.****Torun, Poland.***
6. Chukwuneme CF, Ayangbenro AS, Babalola OO (2021) Deciphering the abundance of genes involved in disease suppression and quorum-sensing in the rhizosphere microbiome of two distinct maize fields through shotgun metagenomics. Plant productivity and food safety: *Soil science, Microbiology, Agricultural Genetics and Food quality. 15th-17th September2021.****Torun, Poland.***
7. Agbodjato A, **Babalola OO\*** (2021) EUROSOIL 2021 Geneva Virtual congress 23-27 August 2021. Connecting people and soil. The Soil Science Society of Switzerland.
8. **Babalola OO\*** (2021) International e-Conference on “Postharvest Disease Management and Value Addition of Horticultural Crops” is being organized by Division of Plant Pathology, ICAR-IARI, New Delhi during August 18-20, 2021 at ICAR-Indian Agricultural Research Institute, **New Delhi, India**.
9. **Babalola OO\***(2021, **Hybrid event**) The Impact of COVID-19 on Food Security in South Africa. National Science Week. Initiative of **Department of Science and Innovation (DSI)**. Implemented by **S**outh **A**frican **A**gency for **S**cience and **T**echnology **A**dvancement (SAASTA). 01-07 August 2021 at AG45, The North-West University. Theme "**making it possible through science**". https://zoom.us/rec/share/C\_Ki2SNdaHefttHw7JcgvENqJ5lufXf9r7ISShGyWE1JBYjhcmbudbocrhIf594N.OU9glSITFOO9zdnT Passcode: 7HMJ=t^+
10. Nwachukwu BC, Ayangbenro AS, **Babalola OO\*** (2021, Virtual) Beneficial microbial structure of sunflower thizosphere grown at Sheila and Kraaipan. The FOODCONF-2021. July 12-14, 2021 Mantra Bell City, **Melbourne, Australia**.v https://www.foodconferencesaustralia.com/
11. Igiehon NO and **Babalola OO\***(2021, Hybrid) Growth and mineral nutrient enhancement of soybean by new *rhizobium* species and mycorrhizal fungi under drought conditions.The FOODCONF-2021. July 12-14, 2021 Mantra Bell City, **Melbourne, Australia**. https://www.foodconferencesaustralia.com/
12. Nwachukwu BC, Ayangbenro AS, **Babalola OO\*** (2021, **Online, oral**) Taxonomic and functional insights into sunflower rhizosphere grown in Sheila and Itsoseng, #115. 3rd Euro-Mediterranean Conference for Environmental Integration (EMCEI 2021), Springer Nature. 10 -13 June. **Sousse, Tunisia**.
13. Igiehon ON, Theko MJ, **Babalola OO\*** (2021, **Online, oral**). Metagenomics and fatty acid insights into soybean grown under drought stress using *Rhizobium* and mycorrhizal fungal species. 3rd Euro-Mediterranean Conference for Environmental Integration (EMCEI 2021), Springer Nature. 10 -13 June. **Sousse, Tunisia**.
14. Omotayo OP, Igiehon ON, and **Babalola OO\*** (2021, **virtual**) Shotgun metagenomic survey of functional potentials possessed by microbes in maize rhizosphere soils under different cropping systems. 11th Symposium of the International Society of Root Research. Roots of Discovery: Exploring New Frontiers. May 24-28th University of Missouri, MU Conference Office, **USA**.

#### 2020

1. Enagbonma BJ and **Babalola OO** (2020, virtual) Bioturbation by termite promote the plant-growth promoting genes in mound-soil. International Society for Microbial Ecology (ISME) Virtual Microbial Ecology Summit. 11-12 November 2020.
2. Uzoh IM, Okolo CC, Onunwa AO and **Babalola OO** (2020, virtual) Soil P, Arbuscular mycorrhizal spore count and root colonization of cowpea in biochar amended soils under maize/cowpea cropping systems. SSS12.7 – Current Debates on Land Degradation and Development. Abstract ID number EGU2020-12936. EGU General Assembly 2020, **Austria**. <https://meetingorganizer.copernicus.org/EGU2020/EGU2020-12936.html>
3. Gaebee L, Enagbonma BJ and **Babalola OO\***(2020) Archaeal communities in termite mound soils revealed by illumina high-throughput sequencing. Control #2974.American Society for Microbiology (ASM) Microbe 2020 Virtual meeting June 18-22, McCormick Center, **Chicago, Illinois, USA**.

#### 2019

1. Sholeye AR, Ojuederie OB and **Babalola OO\*** (2019) "Land Use and Its Influence on Soil Bacterial Diversity" (**ID 18**) **poster** **Session:** Structural and functional diversity. **4th Thünen Symposium on Soil Metagenomics.** 11 - 13 December, **Braunschweig/ Germany**.
2. Ajilogba CF, Mothupi T, Gaebee L, **Babalola OO\*** (2019) *"Bacterial profile and biodiversity of Bambara groundnut rhizospheric soil"* (**ID 19**) **Poster** **Session:** Metagenomics of the plant microbiome. **4th Thünen Symposium on Soil Metagenomics.** 11 - 13 December, **Braunschweig/ Germany**.
3. Cromwell S, Enagbonma BJ, Amoo AE, and **Babalola OO** (2019) *Effect of termite bioturbation on fungal diversity and community structure as revealed by shotgun sequencing"* **(ID 20**) **poster** **Session:** Structural and functional diversity. **4th Thünen Symposium on Soil Metagenomics.** 11 - 13 December, **Braunschweig/ Germany**.
4. Enagbonma BJ and **Babalola OO** (2019) "Unveiling the plant-beneficial function contributing genes present in termite mound soil" (**ID 12**) **poster** **Session:** Structural and functional diversity. **4th Thünen Symposium on Soil Metagenomics.** 11 - 13 December, **Braunschweig/ Germany**.
5. Emmanuel OC and **Babalola OO** (2019) The Innovation Bridge (IB) Technology Matchmaking and Showcasing Event and Science Forum South Africa (SFSA). CSIR International Convention Centre 4 – 6 December 2019, **Pretoria, South Africa**.
6. Ambele FC, Bisseleua DBH, Komivi SA, Christian TCLD, **Babalola OO**, Ekesi S (2019) Effects of planting cocoa without shade trees on termite pest outbreak in cocoa plantations. Proceeding of the 23RD meeting and conference of African Association of Insect Scientists at National Public Health Institute Abidjan, Côte d'Ivoire (18 - 22 November 2019) Book of Abstract 43 Sub-Theme 2: Invasive Species in Africa: Monitoring Surveillance and Control (ST-2.05).
7. Masowa MM, **Babalola OO,** Mulidzi RA and Kutu FR, (2019). **Poster:** In-field assessment of phosphorus and potassium mineralization from winery solid waste compost on sandy loam Ferric Luvisol. International Annual Meeting of American Society of Agronomy, Crop Science Society of America, 10 – 13 November 2019 at San Antonio, **Texas, USA**.
8. Masowa MM, Kutu FR, **Babalola OO** and Mulidzi RA (2019). **Oral:** Maize growth and yield as affected by combined application of inorganic fertilizers and winery solid waste compost produced with and without effective microorganisms inoculation. International Annual Meeting of American Society of Agronomy, Crop Science Society of America, 10 – 13 November 2019 at San Antonio, **Texas, USA**.
9. **Babalola OO** (2019). Policy today in Microbial Soil Ecology. Executive Board Meeting and International Symposium on Women Scientists in Innovation & Entrepreneurship. 16-20 October 2019, **Beijing, China.**
10. Ajilogba CF and **Babalola OO** (2019). Impact of biofertilizer on the drought-tolerant crop: Bambara groundnut. The 35th Annual **Conference** of the South African Society for Atmospheric Sciences (SASAS) Riverside Sun Hotel. 8-9 October 2019, **Vanderbijl Park, Gauteng, South Africa**.
11. Ambele FC, Bisseleua DB, Akutse KS, **Babalola OO**, Humbert P, Patel AV, Vidal S and Ekesi S (2019). Novel “attract-and-kill” strategy for subterranean termite pest management in cocoa agroforests
12. Khantsi M and **Babalola OO** (2019). Effect of intercropping on-screen house pot experiment inoculated Vigna unguiculata and Zea mays yield components. Cereal Science & Technology Association of Southern Africa (CST-SA), CST-SA 3th New Voices Symposium. 10-11 September. The Grain Building, 477 Witherite Road, Die Wilgers, **Pretoria, South Africa**.
13. Ojuederie B and **Babalola OO** (2019). Pseudomonas sp. strains mrbp4 and mrbp13 isolated from maize rhizosphere soil, extenuates drought stress in inoculated maize (Zea mays l.) plants.Oral Abstract ID **20813. Rhizosphere 5 - Shining light on the world beneath our feet.** July 7 – 11, 2019, TCU Place, 35 - 22nd Street East in **Saskatoon,** **Canada.**
14. Ajilogba CF, Gaebee L, Mothupi T and **Babalola OO** (2019). The biodiversity of eukaryotes in Bambara groundnut rhizosphere. Poster Abstract ID: 020400. **Rhizosphere 5 - Shining light on the world beneath our feet.** July 7 – 11, 2019, TCU Place, 35 - 22nd Street East in **Saskatoon,** **Canada.**
15. AremuBR, BeattieGA, **Babalola OO** (2019). New insight into the microbiome of the termite mound and its surrounding soils. Theme: General soil-plant-microbe interactions. Poster Abstract ID: 020411. **Rhizosphere 5 - Shining light on the world beneath our feet.** July 7 – 11, 2019, TCU Place, 35 - 22nd Street East in **Saskatoon,** **Canada**
16. Uzoh IM, Ramadile KC, Chukwudi UP, Igiehon NO, and **Babalola OO** (2019). Soil amendments affect mycorrhizal colonization, root nodulation and dry matter accumulation in cowpea. Theme: Rhizosphere processes for sustainable agriculture and nutrient cycling. Oral Abstract ID: 020253. **Rhizosphere 5 - Shining light on the world beneath our feet.** July 7 – 11, 2019, TCU Place, 35 - 22nd Street East in **Saskatoon,** **Canada**
17. Uzoh IM and **Babalola OO** (2019). Biochar mediated effect on root development in maize cowpea intercrop. Theme: Root imaging and phenotyping. Poster Abstract ID: 015761. **Rhizosphere 5 - Shining light on the world beneath our feet.** July 7 – 11, 2019, TCU Place, 35 - 22nd Street East in **Saskatoon,** **Canada**
18. Enagbonma BJ and **Babalola OO** (2019). Metagenomic profiling of bacterial genes indicative for nutrient cycling and plant-beneficial functions in termite mound soils. Abstract ID 3565. 8th Congress of European Microbiologists (FEMS2019).
19. Igiehon NO and **Babalola OO** (2019). Microbial Dynamics of Soybean Rhizosphere at different Growth Stages in the Field. SSS4.2 – The rhizosphere and plant-soil-microbial interactions. European Geoscience Union General Assembly 2019. ID number EGU2019-18383. Copernicus Office user ID 481181. April 7-12 2019. **Vienna**. Conveners: Marta M. Moreno (martamaria.moreno@uclm.es. UCLM; SEAE; Spain). PaulMäder (paul.maeder@fibl.org. FiBL, Switzerland). jaime\_vil@hotmail.com (UCLM, Spain)
20. Igiehon NO and **Babalola OO** (2019) The Panacea to Food Insecurity Starts with Rhizobia, Mycorrhizal Fungi and Soybean bean in a Controlled Environment **page 113-114.** Annual Conference of the Association for General and Applied Microbiology. March 17-20, Johannes-Gutenberg University, **Mainz, Germany**. <https://www.vaamkongress.de/fileadmin/congress/media/vaam2019/druckelemente/VAAM2019_Abstractbook.pdf>
21. Igiehon NO and **Babalola OO** (2019). Enhancement of Soybean Growth under Drought Stress Condition Using New *Rhizobium* spp. 18th East-West International Graduate Student Conference (IGSC). Feb 14 -16, Hawaii Imin International Conference Center. Honolulu, **Hawaii, USA**.

#### 2018

1. Ajilogba CF and **Babalola OO** (2018). Bambara groundnut-bacteria interaction; source of food security Session 3: The plant microbiome: diversity of bacteria in plant compartments/spheres. The Plant Microbiome, Exploration of Plant-Microbe Interactions for Improving Agricultural Productivity, November 18-22, 2018. [www.pgpmicrobiome2018.com](https://www.pgpmicrobiome2018.com/). Pgpmicrobiome, Technische Universität Berlin, Campus El Gouna, **Hurghada, Egypt.**
2. Ojuederie OB and **Babalola OO\*** (2018). In vitro screening and characterization of maize rhizobacteria for plant growth-promoting properties under induced stress conditions. 31st Annual International Conference of the Biotechnology Society of Nigeria, Covenant University – BSN-Ota’18, **Nigeria**. 5th 9th August 2018.
3. Fashola MO, Ngole-Jeme VM and **Babalola OO** (2018). Physico-Chemical, heavy metal-tolerant bacteria profile of abandoned gold mine tailings in Krugersdorp, South Africa. Oral. 19th International Conference on Heavy Metal in the Environment (ICHMET). Athens, GA, **USA**, July 22-25. Abstract 003.
4. Adegboyega TT, Abberton, MT, Abdelgadir AH, Dianda M, Oyatomi, OA and **Babalola OO** (2018). Nodulation, N fixation and water use efficiency potential of different winged bean (*Psophocarpus tetragonobolus*) accessions. 2nd Annual Conference and Stakeholders Forum, Covenant University, **Ota, Nigeria**, July 11-12, 2018. ISBN: 978-978-131-351-6, pp 1-69.
5. Khantsi M, Aremu BR and **Babalola OO** (2018). Molecular characterization and comparison of bacterial isolates resident in the rhizosphere and rhizoplane of Bambaranut through NGS. South African Society of Biochemistry and Molecular Biology (SASBMB)/ Federation of African Societies of Biochemistry and Molecular Biology (FASBMB) conference. North-West University, **Potchefstroom, South Africa**. Poster presentation. 8-11th July 2018
6. Ojuederie OB and **Babalola OO\*** (2018). Molecular detection and characterization of maize rhizobacteria for plant growth-promoting traits. South African Society of Biochemistry and Molecular Biology (SASBMB)/ Federation of African Societies of Biochemistry and Molecular Biology (FASBMB) conference. North-West University, **Potchefstroom, South Africa**. Oral presentation. 8-11th July 2018
7. **Babalola OO**, Alori ET and Prigent-Combaret C (2018). Impacts of Microbial Inoculants on the growth and yield of maize plants. Exposing the Hidden Half. Root Research at the Forefront of Science International Symposium. 10th Symposium for the International Society of Root Research (ISRR-10). 8-12 July 2018, Yearim Hotel, **Israel**. Submission No 1076.
8. Olanrewaju O and **Babalola OO** (2018). Plant health: a synergy between the rhizobiome and root exudates. Exposing the Hidden Half. Root Research at the Forefront of Science International Symposium. 10th Symposium for the International Society of Root Research (ISRR-10). 8-12 July 2018, Yearim Hotel, **Israel**. Submission No 1364.
9. **Babalola OO** and Amoo AE (2018). Impact of Soils Physico-Chemical Properties on Bacterial Diversity and Community Structure in Temperate Forests. Exposing the Hidden Half. Root Research at the Forefront of Science International Symposium. 10th Symposium for the International Society of Root Research (ISRR-10). 8-12 July 2018, Yearim Hotel, **Israel**. Submission No 1394.
10. Igiehon NO and **Babalola OO** (2018). In vitro Enhancement of Soybean PAn1532 under Drought Stress Condition Using Rhizobium spp. Isolated from the Root Region of Bambara Plant. Exposing the Hidden Half. Root Research at the Forefront of Science International Symposium. 10th Symposium for the International Society of Root Research (ISRR-10). 8-12 July 2018, Yearim Hotel, **Israel**. Submission No 1419.
11. Taukobong DP, Aremu BR and **Babalola OO** (2018). Some vast assemblage of archaea in termiteria. 3rd International Conference on Ecology of Soil Microorganisms (ESM3). <http://app.oxfordabstracts.com/events/221/submissions/33926/abstract-book>. June 17 21 2018, **Helsinki, Finland**.
12. Kgosiemang JL, Aremu BR and **Babalola OO** (2018). The varied assemblages of fungi on termite mounds 3rd International Conference on Ecology of Soil Microorganisms (ESM3). "Digging deeper". https://app.oxfordabstracts.com/events/221/submissions/33926/abstract-... June 17-21 2018, **Helsinki, Finland**.
13. Mokgakane L and **Babalola OO** (2018). Production and properties of lipopeptide biosurfactants from closely related Bacillus spp. with Fusarium graminearum biocontrol attributes” (abstract code: 31). VIII International Conference on Environmental, Industrial and Applied Microbiology – BioMicroWorld2018, Torremolinos, **Málaga, Spain**, 24-25 May 2018.
14. Mongadi KH, Adegboye MF and **Babalola OO** (2018). Characterization and identification of bacteria species in the rhizosphere and rhizoplane of Bambaranut (abstract code: 41). VIII International Conference on Environmental, Industrial and Applied Microbiology BioMicroWorld2018, Torremolinos, **Màlaga, Spain,** 24-25 May 2018.
15. Ahmed AHQ and **Babalola OO** (2018). Potential Role of Using Microbial Inoculants for Improving Carbon Sequestration in Agroecosystems to Improve Soil Productivity and Mitigate Climate Change. 14th-15th May 2018: Symposium on Climate Change Adaptation, University of **Ibadan, Nigeria** "Fostering African Resilience and Capacity to Adapt”
16. Adegboyega TT, Abberton MT, Dianda M, Oyatomi OA and **Babalola OO** (2018). Proximate and anti-nutritional composition of raw and processed seeds of underutilized legumes. 21st Symposium. Of the International Association of Research Scholars and Fellows, IITA, **Nigeria**. Pg 43-44.
17. Adegboyega TT, Abberton MT, Dianda M, Oyatomi OA and **Babalola OO** (2018). Nitrogen fixation, water use efficiency and C assimilation in African Yam bean estimated using 13C and 15N natural abundance. 21st Symposium. Of the International Association of Research Scholars and Fellows, IITA, **Nigeria**. April 16-19, 2018. ISBN 978-978-8444-96-1, Pg 17-18.
18. Khantsi M and **Babalola OO** (2018). Determination of growth-promoting abilities of selected microbial strains on crops cultivated in a constant artificial environment. SASM Conference, 4-7 April 2018. Misty Hills Hotel and Conference, Muldersdrift, Cradle of Humankind. **Johannesburg, South Africa**.
19. **Babalola OO** (2018). How I got here: my journey as a scientist. OWSD 25th Anniversary Celebrations: Launch of the OWSD Rwanda National Chapter Celebrations of the OWSD Ph.D. Fellowship Programme with OWSD Fellows and Alumnae and Presentation of OWSD National Assessments in East Africa. ICTP-EAIFR, UR – CST, Avenue de l’armee, **Kigali, Rwanda**, 22-23 March 2018
20. **Babalola OO** (2018). GC-MS metabolite profiling of siderophore-producing Bacillus subtilis rhizobacteria isolated from maize (Zea mays L.) rhizosphere. ID# 35365, Natural Product Discovery and Development in the Genomic Era. Society for Industrial Microbiology and Biotechnology. January 21-24, 2018 **Clearwater Beach, FL**

#### 2017

1. Ajilogba CF, Habig J and **Babalola OO** (2017). GC-MS analysis of volatile organic compounds fromBambara groundnut rhizobacteria and their antibacterial properties. ID 79. 6th International Symposium on Soil Organic Matter. 3-7 September 2017. Rothamsted Research, [www.som2017.org/](http://www.som2017.org/). **Harpenden, UK.**
2. Adeniji AA, Aremu OS and Babalola OO (2017). Indigenous Pseudomonas from Maize (Zea mays L.) rhizosphere with strong biocontrol potential for fusariosis management. Society for Industrial Microbiology and Biotechnology (Poster SIMB 2017) Annual Conference and Exhibition, July 30th – August 3rd 2017, **Denver, Colorado, USA**.
3. Adegboye MF and **Babalola OO** (2017). Evaluation of cellulase-producing *Streptomyces sp* strain NWU339 for cellulosic ethanol production ID: 34536 449219. 2017 Society for Industrial Microbiology and Biotechnology Annual Meeting and Exhibition. July 30-Aug 3 **Canada.**
4. Onipede GO, Sanni AI and **Babalola OO** (2017). Genomics of Phytate-degrading Lactic Acid Bacteria Isolated from Ogi and Kunun-zaki, African Traditional Fermented Food and Beverage. Applied Microbiology and Biotechnology. IUMS2017-2494. International Union of Microbiological Societies, 17-21 July 2017, **Singapore.**
5. Adegboyega TT, Abberton MT, AbdelGadir AH, Oyatomi OA and **Babalola OO** (2017). Nitrogen fixation in winged bean (*Psophocarpus tetragonobolus*) estimated by ureide and difference methods. 20th IITA-IARSAF Symposium, July 11th, 2017, Ibadan, **Nigeria**
6. Adegboye MF, Ma K and **Babalola OO** (2017). Identification and characterization of a thermostable cellulase-producing Streptomyces species (Poster ID AEM 001). Applied and Environmental Microbiology poster session. Canadian Society of Microbiologists’ 67th Annual Conference. 20-23 June 2017, University of Waterloo, <https://uwaterloo.ca/science/events/canadian-society-microbiologists-67th-annual-conference>. Waterloo, **Ontario, Canada**.
7. Aremu BR, Prigent-Combaret C and **Babalola OO** (2017). Genomic analysis of maize varieties for resistant genes to Fusarium graminearum" (ID 277) **poster presentation. 4-8 June**. 14th Symposium on Bacterial Genetics and Ecology (BAGECO). [www.bageco.org](http://www.bageco.org). **Abeerden**, **Scotland**
8. Adegboyega TT, Abberton MT, AbdelGadir AH, Oyatomi OO and **Babalola OO** (2017). Nitrogen fixation in African yam bean (Sphenostylis stenocarpa) estimated by difference and ureide methods. 1st National Conference & Stakeholders Forum on African Yam Bean (AYB 2017) (Abstract ID# 015). May 22 26 May 2017, Ebonyi State University **Abakaliki, Nigeria**.
9. Amoo A and **Babalola OO** (2017). Impact of seasonal variation on soil bacterial diversity and ecosystem functioning. 23 – 28 April. Poster X1.180, Session SSS4.11 Role of soil biota in soil functioning and ecosystem service provision EGU2017-1123, European Geosciences Union General Assembly. Convener: Rachel Creamer. **Vienna, Austria**. http://meetingorganizer.copernicus.org/EGU2017/EGU2017-1123.pdf
10. Ajilogba CF, Habig J and **Babalola OO** (2017). Effect of growth stages on community dynamics of Bambara groundnut (*Vigna subterranea*) rhizospheric bacteria InterDrought-V. 21-25 February, Poster. Hyderabad International Convention Center (HICC), **Hyderabad, India**.

#### 2016

1. Adeniji A and **Babalola OO** (2016). Specificity of primer set in detecting lipopeptide genes in native rhizospheric Bacillus strains of maize antagonizing Fusarium graminearum. The Society for Applied Microbiology’s (Sfam) Summer Conference, Poster 32, The Assembly Rooms, 4-7 July, **Edinburgh, UK**. www.sfam.org.uk/
2. Fashola MO, Ngole-Jeme V and **Babalola OO** (2016). Bioaccumulation of lead, zinc and nickel by heavy metal tolerant Bacillus spp isolated from heavy metal polluted gold mine sites. Poster 44. The Society for Applied Microbiology’s (Sfam) Summer Conference, The Assembly Rooms, 4-7 July, **Edinburgh, UK**. www.sfam.org.uk/
3. Banakar SP, Gaddad N, Ndeddy Aka R.J and **Babalola OO** (2016). Extraction and characterization of 5-Pyrrolidino-2-pyrrolidone from methanol extract of *Pseudomonas aeruginosa* (KP717554). International Conference on Environmental, Biological and Life Sciences (EBLS-16)) during 23-24 June 2016, AE0616305, **Bangkok**. http://www.iicbe.org/listing.php?catDid=78&mode=page&pageid=98
4. **Babalola OO**, Ajilogba CF, Adem M, Mongadi K and Adegboye MF (2016). Studies on the resident bacteria of *Vigna subterranean* (Bambara groundnut). OWSD Fifth General Assembly and International Conference. 16-19 May 2016, **Kuwait**. http://owsd.net/resources/news-events/owsd-5th-general-assembly-be-held-kuwait-may-2016
5. Ajilogba CF and **Babalola OO** (2016). Biocontrol and biofertilizer potentials of rhizobacteria from Bambara groundnut (*Vigna subterranea*). FSASR101. 2016 Autumn International Scientific Conference on Food Safety and Security. University of **Johannesburg, South Africa.** https://www.uj.ac.za/faculties/science/foodtech/Documents/FSaS%202016%20Brochure.pdf
6. Ajilogba CF and **Babalola OO** (2016). RAPD profiling of *Bacillus* spp with biocontrol potential and their effects on the mineral composition of tomato. Session 9.04. The South African Society for Microbiology (SASM) 2016 Biennial Congress. 17-20 January 2016, Coastlands, **Umhlanga. South Africa**. www.dut.ac.za/sasm/
7. **Babalola OO** (2016). Multiple metal tolerant bioaccumulating mine tailing bacteria isolated from North West Province, South Africa. Session 12.01. The South African Society for Microbiology (SASM) 2016 Biennial Congress. 17-20 January 2016, Coastlands, **Umhlanga. South Africa**. www.dut.ac.za/sasm/
8. Aremu BR and **Babalola OO** (2016). Development of PCR assay for accurate identification of macergens in exportable vegetables of South Africa. Session 15.05. The South African Society for Microbiology (SASM) 2016 Biennial Congress. 17-20 January 2016, Coastlands, **Umhlanga. South Africa**. *www.dut.ac.za/****sasm****/*
9. Fashola MO and **Babalola OO** (2016). Screening of heavy metal resistant bacteria from an abandoned gold mine tailings and soil in Krugersdorp, South Africa. Session 17.02. The South African Society for Microbiology (SASM) 2016 Biennial Congress. 17-20 January 2016, Coastlands, **Umhlanga. South Africa**. *www.dut.ac.za/****sasm****/*

#### 2015

1. Ndeddy Aka R and **Babalola OO** (2015). Metal tolerant, plant growth-promoting soil bacteria protected plants against the toxic effects of heavy metals (Cd, Cr, and Ni). Biodiversity and Functioning of Agricultural Soils Poster No 165,In,Brabcová V., Kyselková M., Navrátilová D., Pospíšek M., Baldrian P. (Eds.), 2015. Ecology of Soil Microorganisms Book of Abstracts, **Prague, Czech Republic**, November 29 – December 3, 2015, 357 pp.
2. **Babalola OO** (2015). Rhizobacterial community structure in Mahikeng rhizospheric soil and associated plant growth-promoting potential. 24 27 August 2015. 18th International Plant Protection Congress (IPPC). Henry-Ford-Bau, Garystrasse, **Berlin**, **Germany.**
3. Banakar SP, Thippeswamy B and **Babalola OO** (2015). Screening andproduction of natural food-grade fungal pigments and their antimicrobial activity. InternationalConference and Exhibition on Biotechnology. 3rd 5th August 2015. **Hyderabad, India**.
4. **Babalola OO** (2015). Rhizobacterial community structure in Mahikeng rhizospheric soil andassociated plant growth-promoting potential. 21 25 June 2015. Rhizosphere4. **Maastricht**, **The Netherlands**.
5. **Babalola OO** and Motsewabangwe KR (2015). Comparativeanalysis of autochthonous and zymogenous bacteria in Mahikeng Agricultural Ecosystem. 21 25June 2015. Rhizosphere4. **Maastricht**, **The Netherlands**.
6. **Babalola OO** (2015). June 16th 19th, 10th International PGPR Workshop. Universite de Liege, **Liege**, **Belgium**

#### 2014

1. Dare MO and **Babalola OO** (2014). Does bush burning reduce arbuscular mycorrhizal fungal spore abundance for succeeding cropping season? Paper at 5th ASM Conference on Beneficial Microbes, **Washington DC, USA**. September 27 – 30 2014.
2. Esuola CO, Heine T, **Babalola OO**, Akinyemi SOS, Schlomann M, and Tischler D (2014). Production of fine chemicals from microbial enzymes for horticultural crop development. 29th International Horticultural Congress (IHC 2014), **Brisbane**. www.ihc2014.org. Sustaining lives, livelihoods and landscape. 17-22 August 2014. http://ihc2014.digitalposter.com.au/posters-topics/24/24c.
3. Egbuta M, Mwanza M, **Babalola OO** (2014). Synergistic effects of different filamentous fungi species. The South African Society of Biochemistry and Molecular Biology Conference (SASBMB) P113.Goudini Spa, **South Africa**. http://sasbmbconference2014.co.za/wp-content/uploads/2014/06/SABMB%20Poster%20schedule%20and%20abstracts%2027%20June.pdf
4. Khantsi M and **Babalola OO** (2014). Comparison of intraspecific variation in the bacterial strains resident in the rhizoplane and rhizosphere of Bambaranut (*Voandzeia subterranea* L. Thouars). P143: Goudini Spa, **South Africa**. http://sasbmbconference2014.co.za/wp-content/uploads/2014/06/SABMB%20Poster%20schedule%20and%20abstracts%2027%20June.pdf
5. **Babalola OO** (2014). Optimization of fermentation parameters for the production of antibiotics by Streptomyces rochei strain NWU49. The International Conference on Beneficial Microbes (ICOBM 2014). Microbes for the Benefits of Mankind. 27-29 May 2014. Parkroyal Penang resort Hotel, Batu Ferringgi, **Penang, Malaysia**. www.icobm.usm.my/
6. Esuola CO, **Babalola OO**, Schlömann M and Tischler D (2014). Biocatalytic Potentials of some Baeyer Villiger Monooxygenases (BVMOs). 4th International Conference on Microbial Communication. Microbe talks, MiCom decodes! Understanding interactions in the microbial world. 31st March – 3rd April 2014. Rosensale. Friedrich Schiller University Jene, Furstengraben 27, **Jena, Germany**.

#### 2013

1. Adegboye MF and **Babalola OO** (2013). Isolation of Polyketides Producing Actinomycete Isolates via PCR-Based Genome Screening for PKS Gene. **Molecular Life Sciences 2013 (ID: FTP42), Page 55. International Symposium of the German Society for Biochemistry and Molecular Biology (GBM). 3rd 6th October. Campus Westend, Goethe University. Frankfurt, Germany.**  <http://www.molecular-life-sciences.de/index.php/program.html?file=tl_files/program/GBM%202013_Main%20Programme-small.pdf>
2. Ajilogba CF and **Babalola OO** (2013). Biocontrol treatment Of Fusarium wilt In tomato. SASM 2013 (ID. 13, Poster) (The 18th Biennial Conference of the South African Society for Microbiology). 24-27 Nov. Forever Resorts Warmbaths, Bela-Bela. **South Africa**
3. Adegboye MF and **Babalola OO** (2013). SASM 2013 (ID. 43, Poster) (The 18th Biennial Conference of the South African Society for Microbiology). 24-27 Nov. Forever Resorts Warmbaths, Bela-Bela. **South Africa.** www.**sasm2013**.co.za
4. Adegboye MF and Babalola OO (2013). Isolation of Polyketides Producing Actinomycete Isolates via PCR Based Genome Screening for PKS Gene (Poster FTP42). Annual Conference of the Association for General and Applied Microbiology (VAAM) in collaboration with the Royal Netherlands Society for Microbiology (KNVM) 10-13 March 2013. Congress Center Bremen und Messe **Bremen, Germany**.
5. Modise L and **Babalola OO** (2013). Isolation and characterization of the bacterial community in cultivated plants rhizosphere of public school gardens in Mahikeng. SASM 2013 (ID. 190, Poster) (The 18th Biennial Conference of the South African Society for Microbiology). 24-27 Nov. Forever Resorts Warmbaths, Bela-Bela. **South Africa**
6. Khantsi M and **Babalola OO** (2013). 1-Aminocyclopropane-1-carboxylate deaminase activity as a marker for identifying plant-growth-promoting rhizobacteria in cultivated soil SASM 2013 (ID. 5, Oral) (The 18th Biennial Conference of the South African Society for Microbiology). 24-27 Nov. Forever Resorts Warmbaths, Bela-Bela. **South Africa**
7. Masenya K and **Babalola OO** (2013). Identification of native rhizosphere community composition of bacteria in Mahikeng soil, South Africa. SASM 2013 (ID. 54) (The 18th Biennial Conference of the South African Society for Microbiology). 24-27 Nov. Forever Resorts Warmbaths, Bela-Bela. **South Africa**.
8. Lawal TE and **Babalola OO** (2013). Poultry manure as a carrier for biofertilizer: effects on maize (*Zea mays*) yield growth SASM 2013 (ID. 47, Poster) (The 18th Biennial Conference of the South African Society for Microbiology). 24-27 Nov. Forever Resorts Warmbaths, Bela-Bela. **South Africa**
9. Adegboye MF and **Babalola OO** (2013). “Isolation of glycopeptide producing Streptomyces isolates via PCR-based genome screening for oxyB genes” (abstract cod.: 238) V International Conference on Environmental, Industrial and Applied Microbiology BioMicroWorld2013**, Madrid (Spain)**, 2-4 October 2013 <http://www.biomicroworld2013.org>
10. Lawal TE and **Babalola OO** (2013). Poultry manure as a carrier for *Bacillus subtilis*: Effect on maize (*Zea mays*) growth and yield. OMICS Group Conferences. 4th World Congress on Biotechnology. 23-25 Sept 2013. DoubleTree by Hilton Hotel Raleigh-Durham Airport at RTP, NC, **USA**. J. of Biotechnol and Biomater 3 (3): 96. http://dx.doi.org/10.4172/2155-952X.S1.025
11. Adegboye MF and **Babalola OO** (2013). Phylogenetic Screening for Antibiotic Producing Actinomycetes from Rhizospheric Soils. 6th Annual International Symposium on Agriculture, 15-18 July 2013, Athens Institute for Education and Research, **Athens, Greece** www.atiner.gr/abstracts/2013ABST-AGR.pdf
12. Modise L and **Babalola OO** (2013). Isolation and identification of rhizosphere bacterial community with potential plant growth promotion traits. 2012/2013 DST-NRF Internship program intern’s research day, pg 51.
13. Sebogodi KM and **Babalola OO** (2013). Isolation and molecular characterization of sulfur-and iron-oxidizing bacteria from Kalahari Goldridge Mine, in the North-West Province, South Africa, 2012/2013 DST-NRF Internship program intern’s research day, Pg 83.

#### 2012

1. Tak HI and **Babalola OO** (2012). Ni resistant bacteria isolated from the mining area modulates growth, antioxidant system in *Brassica* under different levels of Ni. *International Biofest Conference*, 12-14 Dec. Hyderabad, **India**.
2. **Babalola OO** and Bumunang EW(2012). Characterization of Plant Growth Promoting Rhizobacteria (PGPR) from field-grown GM and Non-GM maize. The 1st International Conference for GM Crops and Food (ICGMCF) 27-29 November. Page 45. Cairo University, **Egypt**. http://ebookbrowsee.net/characterization-of-plant-growth-promoting-rhizobacteria-pgpr-from-field-grown-gm-and-non-gm-maize-pdf-d512436145
3. Adegboye MF and **Babalola OO** (2012). Taxonomic Characterization and Antimicrobial activities of Streptomyces Isolates from Rhizospheric Soils. Oral presentation, MRC Early Career Scientists Conference 24-25 October 2012, Parow Valley, Cape Town, **South Africa**.
4. **Babalola OO** and Adegboye MF (2012). Phylogenetic characterization of culturable antibiotic-producing Streptomyces from rhizospheric soils, 3rd World Congress on Biotechnology, September 13-15, Hyderabad International Convention Centre, Hyderabad, **India.**
5. Bumunang EW and **Babalola OO** (2012). Bacterial community profiling in the rhizosphere of field-grown GM and non-GM corn. P-305, 3rd World Congress on Biotechnology, September, 13-15, Hyderabad International Convention Centre, Hyderabad, **India.**
6. Ahmad F and **Babalola OO** (2012). Isolation and characterization of Bacillus isolates to determine their mechanisms of antagonism against *Fusarium solani* in vitro. P-114, 3rd World Congress on Biotechnology, September, 13-15, Hyderabad International Convention Centre, Hyderabad, **India.**
7. Adegboye MF and **Babalola OO** (2012). Isolation and Characterization of Rhizospheric Streptomyces with Plant Growth Promoting Potential. P-173, 3rd World Congress on Biotechnology, September 13-15, Hyderabad International Convention Centre, Hyderabad, **India.**
8. Ajilogba CF and **Babalola OO** (2012). Cultural control of Fusarium wilt of tomato. BioFISA Phase I Programme Closure Conference: Celebrating Four Years of BioFISA, 2-6 September 2012, Irene County Lodge. Centurion, **South Africa**.
9. Kodisang SL, Adegboye MF and **Babalola OO** (2012). Identification and characterization of culturable bacteria in the rhizosphere of field-grown crops in the Mafikeng area, RSA. DST-NRF internship program 2012/13 Intern Research Presentation day. University of Pretoria, **South Africa**. 24th February 2012.

#### 2011

1. Sobowale AA and **Babalola OO** (2011). Potential of *Trichoderma* species to persist within maize (Zea mays) stem long after inoculation. South African Society for Microbiology, Southern Sun Cape Sun Hotel and Conference Centre, **Cape Town**. 6th 9th November 2011. Pg 30.
2. **Babalola OO**, Bumunang EW and Akindolire AM (2011). Indigenous rhizobacteria of agricultural importance with peculiarity to selected food crops in the Mmabatho municipality of South Africa. South African Society for Microbiology, Southern Sun Cape Sun Hotel and Conference Centre, **Cape Town**. 6th 9th November 2011. Pg. 31.

#### 2010

1. **Babalola OO** (2010). *Orobanche aegyptiaca* tubercles infection by *Fusarium* *arthrosporioides* plus mixed enzymes. Oral presentation at the International Conference on “Bio-Processing and Application of Microbial Biotechnology in Agriculture”, November 1-3, 2010, Cairo, **Egypt**.
2. **Babalola OO** (2010). Deliberate induction of microbial mutations: a potential cause of socio-economic impact. ASSAF-DST-NRF First annual South African young scientist’s conference, October 12–13, Diep in Die Berg Conference function center, 929 Disselboom Street, Wapadrand, Pretoria, **South Africa**.

#### 2009

1. Kirby BM, Le Roes-Hill M, **Babalola OO**, Cary SC, Tuffin IM, Burton SG and Cowan DA (2009). Phylogenetic Diversity of Actinobacteria Populations associated with Antarctic Dry Valley Mineral Soils. Poster presentation. 15th International Symposium on the Biology of Actinomycetes (ISBA’15), August 2009 Shanghai, **China**

#### 2008

1. **Babalola OO**, Cook AE, Cary SC and Cowan DA (2008). Phylogenetic and culture-dependent diversity of actinobacteria in Dry Valley mineral soils. Presented at the 3rd International Conference on Polar and Alpine Microbiology, May 11–15, Banff, Alberta, **Canada**. <http://www.polaralpinemicrobiology.com/PAM_Program.pdf>
2. **Babalola OO**, Cook AE, Cary SC and Cowan DA (2008). Phylogenetic and culture-dependent diversity of actinobacteria in Dry Valley mineral soils. Presented at Extremophiles-08, September 7-11, Somerset West, **South Africa**.

#### 2006

1. Gressel J, Meir S, Herschkovitz Y, Al-Ahmad H, **Babalola OO** and Amsellem Z (2006). Transgenic Biocontrol Agents to Overcome Evolutionary Barriers. Integrating new technologies for *Striga* control: towards ending the witch-hunt. November 5–11, Addis Ababa, **Ethiopia**.
2. **Babalola OO** and Gressel J (2006). Generation of asporogenic mutants of *Alternaria* *cassiae* by X-ray irradiation. Poster presented at the IXth International Workshop on Radiation Damage to DNA May 13–17, Tekirova, Antalya, **Turkey**.
3. **Babalola OO**, Shobowale AA and Owolabi AO (2006). In-vitro culturing of bacterial species resident on *Vigna unguiculata*. Endogenous scientific efforts in the development of the Nigerian economy within the context of needs. Second Int. Conf. on Science and National Development. University of Agriculture, October 10-13th, Abeokuta, **Nigeria**.

#### 2005

1. Meir S, Amsellem Z, Al-Ahmad H, **Babalola OO**, Herschkovitz Y and Gressel J (2005). Biotechnology and the management of weedy *Orobanche*. COST Action 849. Parasitic plant management in sustainable agriculture WG1+4 workshop on means for limiting *Orobanche* propagation and dispersal in agricultural fields 4–6 December 2005, Newe-Yaar Research center, **Israel**. cost849.ba.cnr.it/ Proceedings%20COST%20Workshop,%20Israel.pdf –
2. Gressel J, Al-Ahmad H, Amsellem Z, **Babalola OO** and Meir S (2005). Transgenic enhancement of biocontrol agents (S 167). Special session: Retropathology: Disease for control of weeds. Annual meeting of the American Phytopathological Society (APS). Phytopathology 95:S126. Publication no. P-2005-0040-SSA. July 30–August 3. Austin, Texas, **USA**. meeting.apsnet.org/2005/ program/pdfs/2005FullProgramBook.pdf
3. Amsellem Z, Meir S, **Babalola OO**, Al-Ahmad H, Safran E and Gressel J (2005). Transforming *NEP*1 toxin gene and other genes into two *Fusarium* spp. to enhance mycoherbicidal activity against *Orobanche* –failure, success and progress.Joint Working Groups and MC meeting of COST Action 849, *Broomrape biology, control and management* 15–17 September 2005, Reading University, **UK**. Website: <http://cost849.ba.cnr.it/>

#### 2004

1. **Babalola OO**, Odhiambo GD and Sanni AI (2004). Screening of three *Striga hermonthica*-stimulating rhizobacteria for phytotoxicity in cowpea. Section 7, Grain crop pest management. Advances in Plant Protection Strategies and Technology. 15th International Plant Protection Congress (IPPC 2004) 11–16 May 2004, Beijing, **China**. <http://www.ipmchina.net/ippc/ippc2004/list/section7.htm>
2. **Babalola OO**, Berner DK and Sanni AI (2004). Effect of plant pathogenic *Pseudomonas* strains and their method of application on *Striga hermonthica*-infested maize and sorghum. Section 3, Bio-control. Advances in Plant Protection Strategies and Technology. 15th International Plant Protection Congress (IPPC 2004) 11–16 May 2004, Beijing, **China**. <http://www.ipmchina.net/ippc/ippc2004/list/section3.htm>

#### 2002

1. **Babalola OO**, Osir EO, Sanni AI, Torto B and Odhiambo GD (2002). Ethylene-forming bacteria a means to an end in *Striga hermonthica* control. Page 3. In: Christine Silvy (Ed.). The role of genetics and evolution in biological control. Abstracts of the Global International Symposium of the Organisation for Biological Control of Noxious Animals and Plants (IOBC), co-organized with C.I.L.B.A. 14–16 October 2002. Montpellier, **France**.
2. **Babalola OO**, Osir EO, Hassanali A, and Masiga DK (2002). First report of ethylene production in *Enterobacter sakasakii* and *Klebsiella oxytoca*. 8th Symposium of the Biochemical Society of Kenya (BSK). 26–27 September 2002. Institute of Computer Science, School of Biological Sciences, University of Nairobi, Riverside Drive, Nairobi. **Kenya**.
3. **Babalola OO**, Odhiambo GD, and Odulaja A (2002). Incidence of Striga hermonthica infestation depths on Striga infection indices and maize yield component. Proceedings of the Horticulture Seminar on **Sustainable Horticultural Production in the Tropics**. 3rd 6th October 2001, Wesonga JM, Losenge T, Ndung’u CK, Ngamau K, Ombwara FK, Agong SG, Fricke A, Hau B, and Stutzel H.(eds). Department of Horticulture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja-**Kenya.** ISBN: 9966-923-03-9

#### 2001

1. **Babalola OO**, Sanni AI and Odhiambo GD (2001). Screening of three Striga hermonthica stimulating fluorescens bacteria for phytotoxicity in cowpea. Proceedings of the Horticulture Seminar on **Sustainable Horticultural Production in the Tropics**. 3rd 6th October 2001, Wesonga JM, Losenge T, Ndung’u CK, Ngamau K, Ombwara FK, Agong SG, Fricke A, Hau B, and Stutzel H.(eds). Department of Horticulture, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja-**Kenya.** ISBN: 9966-923-03-9
2. **Babalola OO**, Odhiambo GD, and Sanni AI (2001). Study of the synergistic effects of *Pseudomonas* isolates 8mr5, 4mks8 and 10mkr7 on *Striga hermonthica*. 18th conference of the Weed Science Society of Eastern Africa (WSSEA). 29th October–2nd November 2001 Kenya Agricultural Research Institute headquarter, Kaptagat road, Loresho, **Nairobi**.

#### 2000

1. **Babalola OO**, Sanni AI, Emechebe AM, and Onilude AA (2000). Effect of bacterial application systems on *Striga hermonthica* infested maize (*Zea mays* l.). Page 34. Abstract of the 38th Annual Conference of Science Association of Nigerian (SAN), 10–14th Dec. 2000, Ogun State University, Ago-Iwoye, **Nigeria**. Sciencenigeria.org

## Dissertation Research Projects

* 2019, **MBA** Dissertation: Women leadership success and roles in Science, Technology, Engineering, and Mathematics (STEM) in Africa. Business School, North-West University, South Africa. <https://repository.nwu.ac.za/bitstream/handle/10394/36943/Babalola_OO.pdf?sequence=1&isAllowed=y> [Supervisor: Professor Y DuPlessis]
* 2002, **Ph.D.** Thesis: Interactions between *Striga hermonthica* (Del.) Benth. and fluorescent rhizosphere bacteria of *Zea mays*, L. and Sorghum bicolor L. Moench for *Striga* suicidal germination In *Vigna unguiculata*. University of Ibadan, Ibadan. <http://twas.assaf.org.za:8080/browse?type=author&value=Babalola%2C+Olubukola+Oluranti> <http://twas.assaf.org.za:8080/bitstream/handle/123456789/38/BABALOLA.pdf?sequence=1> [Supervisor: Professor AI Sanni]
* 1996, **MSc** Dissertation: Screening for nisin producing *Lactococcus lactis* in milk and milk products. University of Ibadan, Ibadan. [Supervisor: Professor AI Sanni]
* 1992, **BSc (Hons)** Dissertation: Quality control study of some processed fruit Juices: A case study of Capri-sonne products. Ogun State University, Ago-Iwoye. [Supervisor: Professor EO Fagade]