

Microbiology and Environmental Biotechnology Research Group

Recent Publications:

- Adedeji, B.S., Ezeokoli, O.T., Ezekiel, C.N., Obadina, A.O., Somorin, Y.M., Sulyok, M., Adeleke, R.A., Warth, B., Nwangburuka, C.C., Omemu, A.M., Oyewole, O.B. & Krska, R. 2017. Bacterial species and mycotoxin contamination associated with locust bean, melon and their fermented products in south-western Nigeria. *International Journal of Food Microbiology* 258: 73-80.
- Adeleke, R., Nwangburuka, C. & Oboirien, B. 2017. Origins, roles and fate of organic acids in soils: A review. *South African Journal of Botany* 108: 393-406.
- Ademola, O.M., Adeyemi, T.E., Ezeokoli, O.T., Ayeni, K.I., Obadina, A.O., Somorin, Y.M., Omemu, A.M., Adeleke, R.A., Nwangburuka, C.C., Oluwafemi, F., Oyewole, O.B. & Ezekiel, C.N. 2018. Phylogenetic analyses of bacteria associated with the processing of *iru* and *ogiri* condiments. *Letters in Applied Microbiology* doi:10.1111/lam.13040.
- Atanda, A.C., Adeleke, R.A., Jooste, P.J. & Madoroba, E. 2018. Insights into the microbiological safety of vermicompost and vermicompost tea produced by South African smallholder farmers. *Indian Journal of Microbiology* <https://doi.org/10.1007/s12088-018-0748-7>
- Awosusi, A.A., Ayeni, A.O., Adeleke, R. & Daramola, M.O. 2017. Biocompositional and thermodecompositional analysis of South African agro-waste corncob and husk towards production of biocommodities. *Asia-Pacific Journal of Chemical Engineering* doi: 10.1002/apj.2138.
- Bello-Akinosho, M., Adeleke, R., Thantsha, M.S. & Maila, M. 2017. *Pseudomonas* sp.(Strain 10–1B): A potential inoculum candidate for green and sustainable remediation. *Remediation* 27: 75-79.
- Bothma, L., Gonzalez-Ibeas, D., Mienie, C., Bezuidenhout, C.C. & Adeleke, R. 2018. Whole-genome sequence of *Salmonella enterica* subsp. *enterica* serovar Typhimurium strain WG49 and *Escherichia coli* strain WG5 used in South Africa for phage detection in water samples. *Genome Announcements* 6(26), e00372-18.
- Ezeokoli, O.T., Adeleke, R.A. & Bezuidenhout, C.C. 2018. Core bacterial community of *soy-daddawa*: Insights from high-throughput DNA metabarcoding. *LWT - Food Science and Technology* 97: 61-66.
- Luvhengo, M., Amoo, S.O. Adeleke, R.A. & Bezuidenhout, C. 2018. Antifungal activity of selected medicinal plant extracts against two *Fusarium* species. *South African Journal of Botany* doi:10.1016/j.sajb.2018.02.064.
- Mashiane, A.R., Adeleke, R.A., Bezuidenhout, C.C. & Chirima, G.J. 2018. Community composition and functions of endophytic bacteria of Bt maize. *South African Journal of Science* 114(7/8), <http://dx.doi.org/10.17159/sajs.2018/20170018>
- Mashiane, R.A., Ezeokoli, O.T., Adeleke, R.A. & Bezuidenhout, C.C. 2017. Metagenomic analyses of bacterial endophytes associated with the phyllosphere of a Bt maize cultivar and its isogenic parental line from South Africa. *World Journal of Microbiology and Biotechnology* 33(4): 80, <https://doi.org/10.1007/s11274-017-2249-y>
- Mukhuba, M., Roopnarain, A., Adeleke, R., Moeletsi, M. & Makofane, R. 2018. Comparative assessment of bio-fertiliser quality of cow dung and anaerobic digestion effluent. *Cogent Food & Agriculture* 4, <https://doi.org/10.1080/23311932.2018.1435019>
- Ojuri, O.T., Ezekiel, C.N., Sulyok, M., Ezeokoli, O.T., Oyedele, O.A., Ayeni, K.I., Eskola, M.K., Šarkanj, B., Hajšlová, J., Adeleke, R.A., Nwangburuka, C.C., Elliott, C.T. & Krska, R. 2018. Assessing the mycotoxicological risk from consumption of

- complementary foods by infants and young children in Nigeria. *Food and Chemical Toxicology* 121: 37-50.
- Oladipo, O.G., Ezeokoli, O.T., Maboeta, M.S., Bezuidenhout, J.J., Tiedt, L.R., Jordaan, A. & Bezuidenhout, C.C. 2018. Tolerance and growth kinetics of bacteria isolated from gold and gemstone mining sites in response to heavy metal concentrations. *Journal of Environmental Management* 212: 357-366.
- Raimi, A., Adeleke, R. & Roopnarain, A. 2017. Soil fertility challenges and Biofertiliser as a viable alternative for increasing smallholder farmer crop productivity in sub-Saharan Africa. *Cogent Food & Agriculture* 3, <https://doi.org/10.1080/23311932.2017.1400933>
- Roopnarain, A. & Adeleke, R. 2017. Current status, hurdles and future prospects of biogas digestion technology in Africa. *Renewable and Sustainable Energy Reviews* 67: 1162-1179.
- Roopnarain, A., Mukhuba, M., Adeleke, R. & Moeletsi, M. 2017. Biases during DNA extraction affect bacterial and archaeal community profile of anaerobic digestion samples. *3 Biotech* 7(6): 375, <https://doi.org/10.1007/s13205-017-1009-x>
- Van Wyk, D.A.B., Adeleke, R., Rhode, O.H.J., Bezuidenhout, C.C. & Mienie, C. 2017. Ecological guild and enzyme activities of rhizosphere soil microbial communities associated with Bt-maize cultivation under field conditions in North West Province of South Africa. *Journal of Basic Microbiology* doi: 10.1002/jobm.201700043.