



CURRICULUM VITAE OF PROF ANTHONY I OKOH



NAME: Anthony Okoh

STATUS: Professor

DEPARTMENT: Department of Environmental Health Sciences, College of Health Sciences, University of Sharjah P.O. Box 27272 Sharjah, UAE.
Tel: +97160557521.

ACADEMIC QUALIFICATION

Degrees:

- **Ph.D.** (Microbiology), 20 June 2003, Obafemi Awolowo University, Ile – Ife. (Thesis: Assessment of the potentials of some bacterial isolates for application in the bioremediation of petroleum hydrocarbon polluted soil).
- **M.Sc.** (Microbiology) Distinction, 1 December 1992, Obafemi Awolowo University, Ile Ife. (Dissertation: Effect of the extract of Bitter leaf (*Vernonia amygdalina*) on the production of beer from sorghum grains using *Saccharomyces calenbergensis*).
- **B.Sc.** (Hon) Microbiology, Second Class Upper Division, 13 August 1987, University of Ife, Ile-
- Ife, Nigeria. (Project: Assessment of the incidence of sulphate reducing bacteria in dug well waters in Ile-Ife, Nigeria).

Other Certificates/Diplomas:

- Certificate of Training, Microbial genomics and Metagenomics at the JGI in Walnut Creek, California, USA, 25 February to 1 March 2019.

- Certificate, ICRO/UNESCO "International Training Course on Biotechnological Tools for Plant Improvement", KSR College of Arts and Science, Thiruchengode, Tamil Nadu, India, September 7 – 20, 2003.
- Certificate, UNESCO/ICRO/EMBO International training course on "Cell Motility, Molecular motors and the Cytoskeleton", May 27 – June 07, 2002, University of Rio de Janeiro, RJ, Brazil.
- Certificate, ICRO/UNESCO International training course on "Ion pumps and ABC Transporters Overexpressed in yeast as drug targets", 10 – 21 September 2001, University of Cape Town, South Africa.
- Certificate, International Training Programme on "Introduction to Industrial Biotechnology" (ITP2000), 23 October to 5 December 2000, German Research Center for Biotechnology (GBF), Braunschweig, Germany.
- Certificate, Theoretical course on "RNA Structure and Function", International Centre for Genetic Engineering and Biotechnology (ICGEB), Trieste, Italy, 3 - 6 April 2000.
- Certificate, Theoretical and Practical course on "Molecular Aspect of Fertilization and Early Development", Asamuchi Marine Biological Station, Tohoku University, Aomori, Japan, 8 - 22 October 1999.
- Certificate, Theoretical and Practical course on "Microalgal Biology and Biotechnology", Pannon Agricultural University, Mosonmagyaróvár, Hungary, 13 - 26 June 1999.
- Certificate, Theoretical and Practical course on "Agricultural biotechnology", Universidad de Neuvo Leon, Monterrey, Mexico, 9-13 November 1998.
- Certificate, Theoretical and Practical course on "Structure, Function and Manipulation of the Fungal Genome" at CINVESTAV, Irapuato, Mexico, 6 –19 September 1998.
- Certificate, International course on "Scale-up in Biotechnological processes" at The Institute of Biotechnology, UNAM, Cuernavaca, Morelos, Mexico, 27 June to 10 July 1998.

PROFESSIONAL EXPERIENCE

- **Professor**, Department of Environmental Health Sciences, College of Health Sciences, University of Sharjah, United Arab Emirates (*Current*).
- **Professor**, Department of Biochemistry and Microbiology, University of Fort Hare, Alice, South Africa, 1 January 2008 to date (Permanent appointment).
- **Associate Professor**, Department of Biochemistry and Microbiology, University of Fort Hare, Alice, South Africa, 1 May 2006 to 31 December 2007. (At the University of Fort Hare, all promotions take effect on 1 January of the year and as at 2006 you can put in for promotion to the next level if you think you merit, which I did in late 2007. My application went for extensive evaluation and I was found worthy of Promotion to the rank of Full Professor effective 1 January 2008 based on my commendable research outputs of over 40 articles, Master's and Doctoral students supervision and years of experience).
- **Senior Lecturer**, Department of Microbiology, Obafemi Awolowo University, Ile-Ife, Nigeria, 2001 to 2006.
- **Lecturer I**, Department of Microbiology, Obafemi Awolowo University, Ile-Ife, Nigeria, 1998-2001.
- **Lecturer II**, Department of Microbiology, Obafemi Awolowo University, Ile-Ife, Nigeria, 1996-1998.
- **Assistant Lecturer**, Department of Microbiology, Obafemi Awolowo University, Ile-Ife, Nigeria, 1993-1996.

ADMINISTRATIVE EXPERIENCE

- **Acting Dean**, Faculty of Science and Agriculture, University of Fort Hare, Alice, South Africa (14 months cumulative between 17 October 2016 and 26 Oct 2018 in the absence of the Dean).
- **Deputy Dean** (Research and Internationalization), Faculty of Science and Agriculture, University of Fort Hare, Alice, South Africa (1 August 2016 to 30 April 2020).
- **Director**, SAMRC Microbial Water Quality Monitoring Center, University of Fort Hare, Alice, since 1 April 2015.
- **Niche Area Leader**: Water Resources for Sustainable Development Research Niche Area, University of Fort Hare, Alice, 1 November 2013 to 31 October 2018.
- **Chairperson**, Department of Biochemistry and Microbiology, University of Fort Hare, Alice, South Africa, 1 January 2009 to 31 December 2015 (7 years).

SCHOLARSHIP METRICS as @ 5 October 2022

H-index:

- 65 (Google Scholar: <https://scholar.google.co.za/citations?user=84lgrowAAAAJ&hl=en>).
- 46 (Scopus: <https://www.scopus.com/authid/detail.uri?authorId=15026992900>),
- i10-index is 296
- Citations: 18681 (Google); 10007 (Scopus).

TEACHING EXPERIENCE (LIST OF COURSES TAUGHT)

@ Obafemi Awolowo University, Nigeria
MIC 201: Introductory Microbiology (Bachelors)
MIC 304: Experimental methods and interpretation in Microbiology (Bachelors)
MIC 403: Industrial Microbiology (Bachelors)
MIC 316: Environmental and Public Health Microbiology (Bachelors)
MIC 420: Petroleum Microbiology (Bachelors)
MIC 414: Microbial Genetics (Bachelors)
MIC 419: Research Project (Bachelors)
@ University of Fort Hare, South Africa
MIC311: Microbial Physiology and Metabolism (Bachelors)
MIC312: Immunology, Virology and Antimicrobial Chemotherapy (Bachelors)
MIC321: Molecular Biology and Genetic Engineering (Bachelors)
MIC321: Molecular Biology and Genetic Engineering (Bachelors)
MIC 322: Applied Microbiology and Biotechnology (Bachelors)
MIC511: General Microbiology (Honours)
MIC512: Techniques in Microbiology (Honours)
MIC513: Molecular Biology and Genetic Engineering (Honours)
MIC514: Biotechnology and Environmental Microbiology (Honours)
MIC525: Practical and Project Presentation (Honours)
MIC526: Seminars (Honours)
@ University of Sharjah, UAE
Environmental Toxicology (BS)

Risk and Environmental Impact Assessment (BS)
Environmental health Risk Assessment (MS)
Environmental Microbiology (BS)
Vector Control (BS)
Advanced Research Methodology (MS)
Field Training (BS)
Graduate Project (BS)

TEACHING PHILOSOPHY

My philosophy rests on fostering self-instruction, formulating questions rather than answers, and establishing high expectations amongst my students through establishment of very strong rapport with them. In many cases, students tend to follow the subject better when related to everyday occurrences such as reference to relevant current events and popular news articles, such as headlines regarding a new vaccine and other breakthroughs of microbiology, environmental pollution situations and their attendant negative consequences, as well as field trips to appropriate sites of relevance to the subject. To me, it is important to develop self-esteem and confidence in my students by ensuring that they are properly directed to proceed as such by provision of the necessary materials and guidance. I believe that one of the most rewarding aspects of teaching is the opportunity to learn from the students. I hope that by my contact with sharp, young minds, my own mind and those I teach will be kept forever young.

RESEARCH GRANTS:

1. University of Sharjah Seed Grant for Research Project # 2101050663 – Assessment of Antimicrobial Resistance signatures in the Water-Plant-Food-Public Health Interface in Sharjah, UAE, for 20 months starting from 11 April 2020; DHs 36000.
2. SAMRC Extramural Research Centre grant - Microbial Water Quality Monitoring Center, University of Fort Hare. R2, 300, 243.00 for 2020/2021.
3. ESKOM Tertiary Support Programme grant on “Exploration of some plant and marine green algae natural dye extracts as photosensitizer for titanium dioxide-based dye sensitized solar cells (DSSCs) – R60, 000.00” – R60 000.00; 2020.
4. ESKOM Tertiary Support Programme grant on “Investigation of Pd-Based ternary electrocatalysts as cathode catalysts for direct methanol fuel cells” – R60 000.00; 2020.
5. ESKOM Tertiary Support Programme grant on “Investigation of Pd-Based ternary electrocatalysts as cathode catalysts for direct methanol fuel cells” - R50 000.00; 2019.
6. ESKOM Tertiary Support Programme grant on “Effect of torrefaction with laboratory scale muffle furnace and fluidized bed pre-treatment methods on the solid fuel properties of sewage sludge in Eastern Cape, South Africa” - R70 000.00, 2019.
7. SAMRC Extramural Research Centre grant - Microbial Water Quality Monitoring Center, University of Fort Hare. R1 356 461.80 for 2019/2020.
8. USAID/DST Partnerships for Enhanced Engagement in Research (PEER) Program grant: Characterizing and tracking of antimicrobial resistance in the water-plant-food public health interface: An emerging water, sanitation and hygiene issue. \$273,992 (2016-2019) (Joint grant with University of Pretoria, South Africa).
9. Water Research Commission grant on Cholera monitoring and response guideline (K5-2432). From 1 April 2015 to 31 February 2018. R1, 260,000.00.
10. SAMRC Extramural Research Centre grant - Microbial Water Quality Monitoring Center,

- University of Fort Hare. R1 498 228.00 for 2018/2019.
11. SAMRC Extramural Research Centre grant - Microbial Water Quality Monitoring Center, University of Fort Hare. R1 430 464.00 for 2017/2018.
 12. SAMRC Extramural Research Centre grant - Microbial Water Quality Monitoring Center, University of Fort Hare. R1 097 897.00 for 2016.
 13. SAMRC Extramural Research Centre grant - Microbial Water Quality Monitoring Center, University of Fort Hare. R1M for 2015.
 14. Seed funding, University of Fort Hare, Alice on Evaluation of microbial resistance to conventional chlorine dosage in water treatment in the Eastern Cape Province: Escherichia coli and Vibrio species as case study. R50,000.00.
 15. SANCOOP, South Africa – Norway research Cooperation. Development of efficient bioflocculants by exploring the microbial diversity of South African Eastern Cape Province for Novel Bioflocculants (2014-2017) – R1 490 000.00.
 16. The Royal Society-DFID Africa Capacity Building Initiative 2013. Assessment of water quality indices of some recreational surface waters in the Eastern Cape Province of South Africa as a tool for capacity development in the impoverished Province. (GBP25,000.00).
 17. ESKOM Tertiary Support Programme grant on “Effects of torrefaction with laboratory scale muffle furnace and fluidized bed pre-treatment methods on the solid fuel properties of sewage sludge in Eastern Cape, South Africa” – R70 000.00 (one year 2019).
 18. ESKOM Tertiary Support Programme grant on “Identification and characterization of bacteria and fungi for the bioconversion of lignocelluloses to bioethanol” – R50 000.00 (one year 2014).
 19. ESKOM Tertiary Support Programme grant on “Identification and characterization of bacteria and fungi for the bioconversion of lignocelluloses to bioethanol” – R50 000.00 (one year 2014).
 20. ESKOM Tertiary Support Programme grant on “Identification and characterization of bacteria and fungi for the bioconversion of lignocelluloses to bioethanol” – R50 000.00 (one year 2013).
 21. ESKOM Tertiary Support Programme grant on “Coal quality improvement by bioflocculation towards the removal of Ash, Trace and Heavy Metal Contaminants” – R150 000.00 (one year 2013).
 22. Water Research Commission grant on “Surveillance of viral, faecal indicator bacteria and Vibrio pathogens in the final effluents of wastewater treatment facilities in the Eastern Cape Province: a vehicle for capacity development in microbial water quality science in the Province (K5/2145), 2012-2014”. (R900,000.00).
 23. Water Research Commission grant on “Assessment of the prevalence of human viral and bacterial pathogens in some rivers and dams in the Amatole district municipality of the Eastern Cape Province of South Africa” (K5-1968) (from 1 April 2010 to 31 March 2011) (R680,000.00).
 24. “International Surveillance of Reservoirs of Antibiotic Resistance (ISRAR)” grant (October 2009-September 2010) (USD21,850.00).
 25. Seed money from NRF/KFD to articulate a research direction for the Algoa Bay actinomycetes diversity in 2009 (R15,000.00).
 26. National Research Foundation (NRF) KISC grant for 2008-2010 to study “Novel antimicrobial and anticancer related secondary metabolites of the marine Actinomycete diversity of a near-shore marine environment in the Eastern Cape Province” (R210,000.00).
 27. Medical Research Council (South Africa) Self-initiated research grant for 2008-2009 for research on “Prevalence and distribution of invasive viral pathogens in the aquatic milieu of the Eastern Cape Province (R260,000.00).
 28. National Research Foundation Focus Area grant (FA2006042400043) for 2007-2008 for

- a “Surveillance study of invasive Vibrio, Listeria and Salmonella strains in discharged aqueous effluents of wastewater treatment plants in rural areas of the Eastern Cape Province” (R227,440.00).
29. National Research Foundation Thuthuka (REDIBA) (TTK2006061400023) grant for 2007, 2009, 2010 and 2011 to study the “Antimicrobial efficacy of Helichrysum sp.” (R1, 019,000.00).
 30. Obafemi Awolowo University Research Grant on “Studies on the effect of climate differences on culturable soil microbial community structure and dynamics during mulching of different agroforestry species in tropical, sub-Saharan African Setting” (N352,700.00) 2002.

STUDENTS SUPERVISION:

- (a) **Graduated:** 52 PhD and 69 MSc (Full list available on request)
- (b) **Postdocs:** Hosted 13 postdocs (Full list available on request)

PEER RECOGNITIONS AND AWARDS

- Fellow, Nigeria Academy of Science, 2022.
- Fellow, Royal Society of Biology, 2021
- Fellow, Nigerian Society for Microbiology, 2021.
- Life membership, Nigerian Society for Microbiology, 2019.
- Fellow of the Biotechnology Society of Nigeria in 2019.
- Fellow of the prestigious African Academy of Sciences in 2017.
- Elected Member of Academy of Science of South Africa in 2017.
- Elected Member, Board of Trustee of the Biotechnology Society of Nigeria, 2016.
- Achievers award conferred by the Biotechnology Society of Nigeria 2016.
- Fellow of the Water Institute of Southern Africa, 2016.
- President, South Africa Society for Microbiology (SASM) (2011 to 2013).
- Winner, University of Fort Hare Vice-Chancellor’s Senior Researcher Medal 2011.
- Winner, University of Fort Hare Vice-Chancellor Emerging Researcher Medal 2008.

EXTERNAL EXAMINER FOR:

- University of KwaZulu-Natal
- Durban University of Technology
- Walter Sisulu University
- Rhodes University
- North-West University
- University of Pretoria
- Annamalai University, India.
- University of Ghana.
- University of Pretoria.

- University of Johannesburg.
- Cape Peninsula University of Technology.
- University of the Western Cape.

PROFESSORIAL PROMOTIONS ASSESSOR FOR:

1. University of Nigeria, Nsukka, Nigeria
2. Lagos State University, Lagos, Nigeria.
3. University of Lagos, Nigeria.
4. Central University College, Ghana.
5. Federal University of Technology, Akure, Nigeria.
6. University of Zimbabwe, Zimbabwe
7. University of Ghana, Ghana
8. University of Fort Hare, South Africa.

PUBLISHED ARTICLES IN PEER-REVIEWED JOURNALS:

Published articles in peer-reviewed journals:

2021

1. Nnolim NE, Okoh AI and Nwodo UU (2021). Elucidation of coding gene and characterization of alkaline metallo-keratinase produced by acidophilic *Bacillus* sp. Okoh-K1 grown on chicken feather. *Environmental Technology & Innovation*, 21: 101285. <https://doi.org/10.1016/j.eti.2020.101285>. IF: 3.356.
2. Ojemaye MO, Okoh SO and Okoh AI (2021). Silver nanoparticles (AgNPs) facilitated by plant parts of *Crataegus ambigua* Becker AK extracts and their antibacterial, antioxidant and antimalarial activities. *Green Chemistry Letters and Reviews*. 14(1): 49-59, DOI: 10.1080/17518253.2020.1861344 IF: 4.611.
3. Liyabona Mpondo, Kingsley Ehi Ebomah, Anthony Ifeanyi Okoh (2021). Multidrug resistant *Listeria* species shows abundance in environmental waters of a key District Municipality in South Africa. *Int. J. Environ. Res. Public Health*, 18:481. <https://doi.org/10.3390/ijerph18020481>.
4. Eric Anthony, Mike Ojemaye, Anthony Okoh and Omobola Okoh (2021). Potentials of low-cost methods for the removal of antibiotic-resistant bacteria and their genes in low budget communities: A review. *Journal of Water Process Engineering*. 40, 101919. IF: 3.46.
5. Adeniyi, O.V., Obi, C.L., Goon, D.T., Iweriebor, B., Chitha, W. and Okoh, A.I. (2021). Genetic Characterization of HIV-1 Subtype A1/C/D/B/K Unique Recombinant Form from Eastern Cape, South Africa. *AIDS Research and Human Retroviruses*, 37 (2), 162-168. <https://doi.org/10.1089/aid.2020.0160>. IF: 1.805.
6. Temitope Cyrus Ekundayo and Anthony I. Okoh (2021). Global assessment of research trends on microbial chlorine resistance in drinking water/wastewater treatment systems *Journal of Environmental Management*, 278(2):111641. <https://doi.org/10.1016/j.jenvman.2020.111641>. IF: 5.647.
7. Nwabunwanne Nwokolo, Vuyokazi Tonga, Abiodun Olagoke Adeniji, Mike O. Ojemaye, Patrick Mukumba and Anthony Ifeanyi Okoh (2021). Torrefaction characteristics of blended ratio of sewage sludge and sugarcane bagasse for energy production. *Appl. Sci*. 2021, 11, 2654. <https://doi.org/10.3390/app11062654> IF: 1.689.
8. Chidozie Declan Iwu, Erika du Plessis, Lise Korsten & Anthony Ifeanyi Okoh (2021): Antibioqram imprints of *E. coli* O157:H7 recovered from irrigation water and agricultural soil

- samples collected from two district municipalities in South Africa, *International Journal of Environmental Studies*, DOI: 10.1080/00207233.2020.1854522. IF 2.037.
9. Ebomah, K.E. and Okoh, A.I. (2021). *Enterobacter cloacae* harbouring *bla*NDM-1, *bla*KPC, and *bla*OXA-48-like carbapenem-resistant genes isolated from different environmental sources in South Africa. *International Journal of Environmental Studies*, 78 (1), 151-164. <https://doi.org/10.1080/00207233.2020.1778274>. IF: 2.037.
 10. Kunle Okaiyeto, Heinrich Hoppe, Anthony I. Okoh (2021) Plant-based synthesis of silver nanoparticles using aqueous leaf extract of *Salvia officinalis*: Characterization and its antiplasmodial activity. *Journal of Cluster Science*, 32 (1), 101-109. <https://doi.org/10.1007/s10876-020-01766-y>. IF: 1.302.
 11. Oladele Vincent Adeniyi, Chikwelu Larry Obi, Daniel Ter Goon, Benson Iweriebor, Nonkosi Selanto-Chairman, Craig Carty, Gordana Avramovic, Anthony Idowu Ajayi, John Lambert, Anthony Okoh, Factors Associated with Peripartum Virologic Suppression in the Eastern Cape Province, South Africa: A Retrospective Cross-sectional Analysis. *Clinical Infectious Diseases*, 2021; ciab206. <https://doi.org/10.1093/cid/ciab206>
 12. Charles Ayodeji Osunla, Oluwatayo Emmanuel Abioye and Anthony I Okoh (2021). Distribution and Public Health Significance of Vibrio Pathogens Recovered from Selected Treated Effluents in the Eastern Cape Province, South Africa. *WATER*, 13, 932. <https://doi.org/10.3390/w13070932>.
 13. Nwabunwanne Nwokolo, Vuyokazi Tonga, Abiodun Olagoke Adeniji, Mike O. Ojemaye, Patrick Mukumba, Anthony I Okoh (2021). Improving the solid fuel properties of a lignocellulose and non- lignocellulose materials through torrefaction. *MATERIALS*, 14, 2072. <https://doi.org/10.3390/ma14082072>.
 14. Adesiyun IM, MA Bisi-Johnson, AA Ogunfowokan and AI Okoh (2021). Occurrence and antibiogram signatures of some Vibrio species recovered from selected rivers in South West Nigeria. *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-021-13603-4>.
 15. Ezeuko AS, Ojemaye M, Okoh OO and Okoh AI (2021). Potentials of metallic nanoparticles for the removal of antibiotics resistant bacteria and antibiotic resistance genes from wastewater: A critical review. *Journal of Water Process Engineering*, 41, 102041.
 16. Temitope Abiola Ekundayo, Tosin Abiola Olasehinde, Kunle Okaiyeto and Anthony Okoh (2021). Microbial pathogenesis and pathophysiology of Alzheimer diseases: A systematic assessment of microorganisms' implications in the neurodegenerative disease. *Frontiers in Neuroscience*, section Neurodegeneration, 15, 454.
 17. Oluwatayo Emmanuel Abioye, Ayodeji Charles Ayodeji and Anthony I Okoh (2021). Molecular detection and distribution of six medically important Vibrio spp. in selected freshwater and brackish water resources in Eastern Cape Province, South Africa. *Frontiers in Microbiology*, section Aquatic Microbiology, 12, 903.
 18. Chinemerem Ruth Ohoro, Abiodun Olagoke Adeniji, Anthony Ifeanyi Okoh and Omobola Oluranti Okoh (2021). Polybrominated diphenyl ethers in the Environmental systems: A review. *Journal of Environmental Health Science and Engineering*. <https://doi.org/10.1007/s40201-021-00656-3>.
 19. Asemahle Gogotya, Nonso E. Nnolim, Tennison O. Digban, Anthony I. Okoh and Uchechukwu U. Nwodo (2021). Characterization of a thermostable and solvent-tolerant laccase produced by *Streptomyces* sp. LAO. *Biotechnology Letters*. <https://doi.org/10.1007/s10529-021-03131-z>.
 20. Chidozie Declan Iwu, Temitope Cyrus Ekundayo, Anthony Ifeanyi Okoh (2021). A systematic analysis of research on Arcobacter: public health. implications from food-

environment interphase perspective. *Foods*, 10, 1673. <https://doi.org/10.3390/foods10071673>.

21. Mary Ayobami Adewoyin, Kingsley Ehi Ehi Ebomah and Okoh I Anthony (2021). Antibiogram profile of *Acinetobacter baumannii* recovered from selected freshwater resources in the Eastern Cape Province, South Africa. *Pathogens*. *Pathogens* 2021, 10, 1110. <https://doi.org/10.3390/pathogens10091110>.
22. Chinemerem Ruth Ohoro, Abiodun Olagoke Adeniji, Anthony Ifeanyi Okoh, Omobola Oluranti Okoh (2021). Spatial and seasonal variations of endocrine disrupting compounds in water and sediment samples of Markman Canal and Swartkops River Estuary, South Africa and their ecological risk assessment. *Marine Pollution Bulletin*, 173(A): 113012.
23. Ezeuko AS, Ojemaye M, Okoh OO and Okoh AI (2021). Technological advancement for eliminating antibiotic resistance genes from wastewater: A review of their mechanisms and progress. *Journal of Environmental Chemical Engineering*, 9:106183.
24. Kayode, A.J., Banji-Onisile, F.O., Olaniran, A.O and Okoh, A.I. (2021). An Overview of the Pathogenesis, Transmission, Diagnosis, and Management of Endemic Human Coronaviruses: A Reflection on the Past and Present Episodes and Possible Future Outbreaks. *Pathogens*, 10, 1108. <https://doi.org/10.3390/pathogens10091108>.
25. Fadare FT and Okoh AI (2021). Distribution and molecular characterization of ESBL, pAmpC β -lactamases, and non- β -lactam encoding genes in Enterobacteriaceae isolated from hospital wastewater in Eastern Cape Province, South Africa. *PlosOne*, 16(7): e0254753. <https://doi.org/10.1371/journal.pone.0254753>.
26. Adeoye Kayode, Lucy Semerjian, Tareq Osaili, Ola Olapade and Anthony Okoh (2021). Occurrence of multidrug-resistant *Listeria monocytogenes* in environmental waters: a menace of environmental and public health concern. *Frontiers in Environmental Science*, 9: 373.
27. Chinemerem Ruth Ohoro, Adeniji Abiodun Olagoke, Lucy Semerjian, Anthony Ifeanyi Okoh, and Omobola Oluranti Okoh (2021). Occurrence and distribution of pharmaceuticals in surface water and sediment of Buffalo and Sundays River estuaries, South Africa, and their ecological risk assessment. *Emerging Contaminants*, 7: 187-195. <https://doi.org/10.1016/j.emcon.2021.09.002>.
28. Ojemaye MO and Okoh AI (2021). Global research direction on Pt and Pt based electro-catalysts for fuel cells application between 1990 and 2019: A bibliometric analysis. *International Journal of Energy Research*, 45(11): 15783-15796.
29. Lucy Semerjian, Kunle Okaiyeto, Mike O. Ojemaye, Temitope Cyrus Ekundayo, Aboi Igwaran, Anthony Ifeanyi Okoh (2021). A Global Systematic Mapping of Road Dust Research From 1906 to 2020: Research Gaps and Future Direction. *SUSTAINABILITY*, 13: 11516. <https://doi.org/10.3390/su132011516>.
30. Hope Onohuean, Anthony I. Okoh, Uchechukwu U. Nwodo (2021). Antibiogram signatures of *Vibrio* species recovered from surface waters in Southwestern districts of Uganda: Implications for environmental pollution and infection control. *Science of The Total Environment*, 807(2): 150706. <https://doi.org/10.1016/j.scitotenv.2021.150706>.
31. Elsiddig A. E. Elsheikh, Ali El-Keblawy, Kareem A. Mosa, Anthony I. Okoh, Ismail Saadoun (2021). Role of endophytes and rhizosphere microbes in promoting the invasion of exotic plants in arid and semi-arid areas: A review. 13, 13081. <https://doi.org/10.3390/su132313081>.
32. Tennison Onoriode Digban, Oyama Gxalo, Bright E Igere, Ola O Olapade, Anthony I Okoh and Uchechukwu U Nwodo (2021). Virulence and antibiotic resistance characteristics of *Vibrio* isolates from rustic environmental freshwaters. *Frontiers in Cellular and Infection Microbiology*.
33. Amahle Bokveld, Nonso E. Nnolim, Tennison O. Digban, Anthony I. Okoh and Uchechukwu U. Nwodo (2021). *Chryseobacterium aquifrigidense* keratinase liberated

essential and nonessential amino acids from chicken feather degradation. *Environmental Technology*.

34. Olubukola Olayemi Olusola-Makinde, Daniel Juwon Arotupin and Anthony Ifeanyi Okoh (2021). Optimization of haemolysin production by *Alcaligenes* species isolated from abattoir wastewater samples in Akure, Ondo State, Nigeria. *Kuwait Journal of Science*.
35. Chinemerem Ruth Ohoro, Adeniji Abiodun Olagoke, Anthony Ifeanyi Okoh, and Omobola Oluranti Okoh (2021). Spatial distribution and health risk assessment of polybrominated diphenyl ethers in environmental matrices from an industrialized impacted canal in South Africa. *Environmental Geochemistry and Health*.
36. Hope Onohuean, Anthony I. Okoh, Uchechukwu U. Nwodo (2021). Epidemiologic potentials and correlational analysis of *Vibrio* species and virulence toxins from water sources in greater Bushenyi districts, Uganda. *Scientific Reports*.
37. Bright E Igere, Anthony I. Okoh and Uchechukwu U. Nwodo (2021). Atypical and dual biotypes variant of virulent SA-NAG-*Vibrio cholerae*: An evidence of emerging/evolving patho-significant strain in Municipal domestic water sources. *Annals of Microbiology*.
38. Adeoye J. Kayode and Anthony I. Okoh (2021). Incidence and genetic diversity of multi-drug resistant *Listeria monocytogenes* isolates recovered from fruits and vegetables in the Eastern Cape Province, South Africa. *International Journal of Food Microbiology*.
39. Anthony A Adegoke, Chibuzor E Madu; Poovendhree Reddy (PR), Thor A Stenström and Anthony I Okoh (2021). Prevalence of vancomycin resistant *Enterococcus* in wastewater treatment plants and their recipients for reuse using PCR and MALDI-ToF MS. *Frontiers in Cellular and Infection Microbiology*.
40. Chidozie Declan Iwu, Chinwe Juliana Iwu-Jaja, Rami Elhadi, Lucy Semerjian and Anthony Ifeanyi Okoh (2021). Modelling the potential risk of infection associated with *Listeria monocytogenes* in irrigation water and agricultural soil in two District Municipalities in South Africa. *Microorganism*.

2020

41. Eric Anthony, Mike Ojemaye, **Anthony Okoh** and Omobola Okoh (2020). Synthesis of CeO₂ as promising adsorbent for the management of free-DNA harboring antibiotic resistance genes from tap water. *Chemical Engineering Journal*, 401: 125562. IF: 10.652.
42. Luyanda Msolo, Benson C Iweriebor, **Anthony I Okoh** (2020). Rotavirus and *Cryptosporidium* pathogens as etiological proxies of gastroenteritis in some pastoral communities of the Amathole District Municipality, Eastern Cape, South Africa. *BMC Research Notes*, 13: 1-6. IF: 1.34.
43. Eric Tobechukwu Anthony, Mike O Ojemaye, Omobola O Okoh, **Anthony I Okoh** (2020). A critical review on the occurrence of resistomes in the environment and their removal from wastewater using apposite treatment technologies: Limitations, successes and future improvement. *Environmental Pollution*, 236: 113791. IF: 5.714.
44. Olasehinde T.A., Olaniran, A.O., **Okoh A.I.** (2021). Cholinesterase inhibitory activity, antioxidant properties and phytochemical composition of *Chlorococcum* sp. extracts. *Journal of Food Biochemistry*, 45 (3): e13395. <https://doi.org/10.1111/jfbc.13395>. IF: 1.552.
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516. Isoken H. Ogunmwoyi, Vincent N Chigor, Unathi Badela and Anthony I. Okoh (2012). Antibiotic susceptibility profile and incidence of virulence genes in *Aeromonas* species isolated from wastewater treatment plant. 5th WSU International Research Conference (5th WSU-IRC) to be held at the East London International Convention Centre, East London, Eastern Cape Province, South Africa from 22 to 24 August 2012.
517. Vincent N. Chigor, Onele Gcilitshana, Martins A. Adefisoye and Anthony I. Okoh (2012). Assessment of the Water Quality and Real-time Detection of Enteric Viruses in the Buffalo River in the Eastern Cape Province of South Africa. 5th WSU International Research Conference (5th WSU-IRC) to be held at the East London International Convention Centre, East London, Eastern Cape Province, South Africa from 22 to 24 August 2012.
518. Sibanda, Timothy, Badela, Unathi.,Sethi, Zukiswa and A.I. Okoh (2012). Evaluation of river water quality by assessing the physicochemical and microbiological qualities of Tyume river in Amathole district in the eastern Cape Province of South Africa. 5th WSU International Research Conference (5th WSU-IRC) to be held at the East London International Convention Centre, East London, Eastern Cape Province, South Africa from 22 to 24 August 2012.
519. Leonard V. Mabinya, Uchechukwu U. Nwodo and Anthony I. Okoh (2012). Bioflocculant production by bacterial consortium and nutrient optimization by surface response methodology. 5th WSU International Research Conference (5th WSU-IRC) to be held at the East London International Convention Centre, East London, Eastern Cape Province, South Africa from 22 to 24 August 2012.
520. Uchechukwu U. Nwodo, Leonard V. Mabinya, Osuolale O. Olayinka, Sinazo N. Mazwi, Zukiswa Seti and Anthony I. Okoh (2012). Production and Characterization of Bioflocculants from Actinobacteria Species Isolated from Tyume River. 5th WSU International Research Conference (5th WSU-IRC) to be held at the East London

International Convention Centre, East London, Eastern Cape Province, South Africa from 22 to 24 August 2012.

521. Penduka D and Okoh AI (2012). Antibacterial activities of the crude dichloromethane extract of *Garcinia kola* (Heckle) seeds against some *Listeria* species. 5th WSU International Research Conference (5th WSU-IRC) to be held at the East London International Convention Centre, East London, Eastern Cape Province, South Africa from 22 to 24 August 2012.
522. Chigor, V.N. and Okoh, A.I. (2013). Assessment of human health risks from adenoviruses, hepatitis A virus, rotaviruses and enteroviruses in the Buffalo River and three source water dams in the Eastern Cape Province, South Africa. 113th General Meeting of the American Society for Microbiology (ASM2013) held at Colorado Convention Center, Denver, CO, United States of America; May 18-21, 2013. *Final Program*, pg. 151.
523. Nwodo, U.U. Green, E., Mabinya, L.V., Obi L and Okoh, A.I. (2013). Biofloculant Production by *Streptomyces* and *Cellulomonas* species consortium and Media Optimization via Surface Response Model. 4th Municipal Water and Quality Conference, 7-11 July, Sun City, South Africa.
524. Okaiyeto Kunle, Sekelwa Cosa, Uchechukwu Nwodo, Anthony Ugbenyen, Leonard V. Mabinya, Anthony I. Okoh. (2013). Characterization of Biofloculant Produced by a Consortium of *Halomonas* sp. Okoh and *Micrococcus* sp. Leo. 4th Municipal Water and Quality Conference, 7- 11 July, Sun City, South Africa.
525. Mazwi S.N, Green E and Okoh AI. (2013). Evaluation of Some wastewater treatment Facilities in Chris Hani and Amathole district Municipality as Source of enteropathogenic *E. coli* in the Environment. 4th Municipal Water and Quality Conference, 7-11 July, Sun City, South Africa.
526. Badela AU, Green E, Ngwenya E, Mazomba N and Okoh AI. (2013). Prevalence of *Vibrio* species in the final effluents of three wastewater treatment facilities in the Buffalo City Local Municipality of the Eastern Cape Province, South Africa. 4th Municipal Water and Quality Conference, 7-11 July, Sun City, South Africa.
527. Osulale O. Olayinka and Anthony I. Okoh. (2013). Incidences of *Escherichia coli* and physicochemical qualities of the final effluents of wastewater treatment plant in a peri-urban community in Buffalo City Local municipality. 4th Municipal Water and Quality Conference, 7-11 July, Sun City, South Africa.
528. Adefisoye MA, Aghdasi F, Green E and Okoh AI (2013). Assessment of the Prevalence of Faecal Coliforms and *Escherichia coli* O157:H7 in the Final Effluents of two Wastewater Treatment Plants in Amathole District Municipality. 4th Municipal Water and Quality Conference, 7-11 July, Sun City, South Africa.
529. Kulati T.C, Manene N, Okoh O.O and Okoh A.I (2013). Evaluation of the Physicochemical Qualities and Heavy Metals Levels of the Final Effluents of Some Wastewater Treatment Plants in the Eastern Cape. 4th Municipal Water and Quality Conference, 7-11 July, Sun City, South Africa.
530. Nongogo V, Green E, Sibanda Tim, Obi L and Okoh A.I (2013). Evaluation of final effluents of some wastewater treatment plants as source of *Vibrio* pathogens in the aquatic environment of the Eastern Cape Province: Amathole and Chris Hani district municipality as case study. 4th Municipal Water and Quality Conference, 7- 11 July, Sun City, South Africa.
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- enterohemorrhagic *Escherichia coli* O157:H7 in the final effluent of a wastewater treatment plant in the Eastern Cape, South Africa. SGM Autumn Conference 2013, 2-4 September at the University of Sussex, UK.
532. Titiawo O.Y, C.L Obi and A.I. Okoh (2013). Molecular detection of *Escherichia coli* pathotypes from selected Rivers in Osun State, South Western Nigeria. 14th WaterNet/WARFSA/GWP-SA Symposium 2013: Transboundary Water Cooperation: Building Partnerships; 30th October -1st November 2013, Dar es salaam, Tanzania.
533. S.S. Gusha, E.G. Ngwenya and AI Okoh (2013). Quality indices of the final effluents of two wastewater treatment plants in Nkonkobe local municipality of the Eastern Cape Province, South Africa. 14th WaterNet/WARFSA/GWP-SA Symposium 2013: Transboundary Water Cooperation: Building Partnerships; 30th October -1st November 2013, Dar es salaam, Tanzania.
534. Nwodo UU and Okoh AI (2013). Characterization and Flocculation Properties of Biopolymeric Flocculant (Glycosaminoglycan) Produced by *Cellulomonas* sp. Okoh. 5th Congress of European Microbiologists scheduled to take place in Leipzig, Germany, July 21-25, 2013.
535. Gcilitshana O, Zhou L and Okoh A.I (2013). Assessment of physicochemical and microbiological qualities of wastewater final effluents: Komga and Reeston wastewater treatment plants as case studies. 3rd regional conference of Southern African Young Water Professionals (YWP), 16-18 July 2011 at the University of Stellenbosch Konservatorium, Western Cape, South Africa.
536. O.O Osulale, N.G. Ngwenya and A.I Okoh (2013). Incidences of *Vibrio* spp. and physicochemical qualities of the final effluents of wastewater treatment plant in a peri-urban community in Buffalo City Local municipality. 14th WaterNet/WARFSA/GWP-SA Symposium 2013: Transboundary Water Cooperation: Building Partnerships; 30th October -1st November 2013, Dar es salaam, Tanzania.
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538. M.A. Adefisoye; C.L. Obi and A.I. Okoh (2013). Evaluation of performance indices of two wastewater treatment facilities in Amathole District Municipality of South Africa. 14th WaterNet/WARFSA/GWP-SA Symposium 2013: Transboundary Water Cooperation: Building Partnerships; 30th October -1st November 2013, Dar es salaam, Tanzania.
539. O. Gcilitshana, L. Zhou, F. Aghdasi and A.I. Okoh (2013). Quality indices of final effluents of two sub-urban-based wastewater treatment plants in Amathole municipality, Eastern Cape. 14th WaterNet/WARFSA/GWP-SA Symposium 2013: Transboundary Water Cooperation: Building Partnerships; 30th October -1st November 2013, Dar es salaam, Tanzania.
540. Mabinya LV, Nwodo UU and Okoh AI (2013). Optimization of Bioflocculant Production by Mixed Culture Fermentation of two bacteria isolates belongin to the *Methylobacterium* and *Actinobacterium* genera. The 18th Biennial South African Society for Microbiology (SASM 2013), 25-27 November 2013, Bela-Bela, South Africa.
541. Nontongana N., Ntloko P., and Okoh AI (2013). Assessment of the microbial quality of the Kat River and Fort Beaufort Abstraction water and the prevalence of *Escherichia coli* pathotypes isolated from these surface waters. The 18th Biennial

- South African Society for Microbiology (SASM 2013), 25-27 November 2013, Bela-Bela, South Africa.
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543. Nongogo V., Sibanda T. And Okoh AI (2013). Prevalence and identification of *Vibrio* pathogens from final effluents of selected wastewater treatment plants: Amathole and Chris Hani District Municipality as a case study. The 18th Biennial South African Society for Microbiology (SASM 2013), 25-27 November 2013, Bela-Bela, South Africa.
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546. Fatokum EN, Yakubu SE, Tatau ED, Obi L and Okoh AI (2013). Prevalence and environmental risk factors for *Helicobacter pylori* infection in patients with peptic ulcer and gastritis in Kadima State: North Western Nigeria. The 18th Biennial South African Society for Microbiology (SASM 2013), 25-27 November 2013, Bela-Bela, South Africa.
547. Nwodo UU, Mabinya LV, Obi CL and Okoh AI (2013). Bioflocculant Production by *Brachy bacterium* sp. and *Cellulomonas* sp. Consortium and Media Optimization through Surface Response Model. The 18th Biennial South African Society for Microbiology (SASM 2013), 25-27 November 2013, Bela-Bela, South Africa.
548. Okaiyeto Kunle, Uchechukwu U. Nwodo, Leonard V. Mabinya and Anthony I. Okoh (2013). Characterization of a bioflocculant produced by *Micrococcus* sp. Leo isolated from sediment of Algoa Bay in Eastern Cape Province. The 18th Biennial South African Society for Microbiology (SASM 2013), 25-27 November 2013, Bela-Bela, South Africa.
549. Leonard V. Mabinya, Luvuyo Ntsaluba, Uchechukwu U. Nwodo, Aghdasi, F and Anthony I. Okoh (2013). Optimization of Bioflocculant Production by Mixed Culture Fermentation of two bacteria isolates belonging to the *Methylobacterium* and *Actinobacterium* genera. The 18th Biennial South African Society for Microbiology (SASM 2013), 25-27 November 2013, Bela-Bela, South Africa.
550. Ntozonke N., Papiyana AT, Ndaliso N., Nwodo UU, Obi CL and Okoh AI (2013). Assessment of Toxicity and Antioxidant Properties of an extracellular polymeric substance Produced by *Streptomyces* sp. Gansen. The 18th Biennial South African Society for Microbiology (SASM 2013), 25-27 November 2013, Bela-Bela, South Africa.
551. Papiyana AT, Ndaliso N, Ntozonke N, Nwodo UU, Obi CL and Okoh AI (2013). Lethality and antioxidant properties of exopolymeric substances produced by *Brachy bacterium* sp. The 18th Biennial South African Society for Microbiology (SASM 2013), 25-27 November 2013, Bela-Bela, South Africa.
552. Ndaliso N, Ntsangani N, Nwodo UU, Ngwenya E, Obi CL, Okoh AI (2013). *In*

in vitro Antioxidant Properties and Bioactivity Assay of Exo-Biopolymer Produced by *Cellulomonas* sp. The 18th Biennial South African Society for Microbiology (SASM 2013), 25-27 November 2013, Bela-Bela, South Africa.

553. Kunle Okaiyeto, Uchechukwu U. Nwodo, Leonard V. Mabinya, Anthony. I. Okoh. (2014). Evaluation of flocculating efficiency and physiochemical properties of a bioflocculant produced by *Halomonas* sp. Okoh: A health implication in pregnant women. Gender, water and development – the untapped connection. Global Water Conference to be held at ICC East London, South Africa, 4-7 November 2014.
554. Titilawo Yinka, Obi Larry and Okoh Anthony (2014). Mainstreaming Gender in the Occurrence of Virulence Gene Signatures Associated with Diarrhoeagenic Pathovars in *Escherichia coli* Isolates from Surface Water in Osun State, Nigeria. Why and How? A poster presented at the Global Water Conference on Water, Gender and Development to be held between 4-7 November 2014., 2014 at the International Conference Center, East London.
555. Osuolale Olayinka, Timothy Sibanda and Okoh Anthony (2014). Public health implication of the occurrence of rotavirus in the final effluents of a wastewater treatment plant located in the Eastern Cape Province. A poster presented at the Global Water Conference on Water, Gender and Development to be held on 4-7 November 2014, 2014 at the International Conference Center, East London.
556. Nontongana N, Sibanda T and Okoh A.I (2014).. Prevalence and antibiogram profiling of *Escherichia coli* pathotypes isolated from the Kat River and Fort Beaufort abstraction water. A poster presented at the Global Water Conference on Water, Gender and Development to be held on 4-7 November 2014 at the International Conference Center, East London.
557. MA Adefisoye and AI Okoh (2014). Gender and Socioeconomic implications of polluted water sources: A Case Study of the Performance Indices of Two Wastewater Treatment Facilities in Amathole District Municipality of South Africa. A poster presented at the Global Water Conference on Water, Gender and Development to be held on 4-7 November 2014., 2014 at the International Conference Center, East London.
558. Nongogo V, Sibanda T, and Okoh AI (2014). Antibiogram profiles of *Vibrio* species isolated from wastewater treatment plants in Amathole and Chris Hani District Municipality. A poster presented at the Global Water Conference on Water, Gender and Development to be held on 4-7 November 2014.at the International Conference Center, East London.
559. Osuolale Olayinka and Okoh Anthony (2014). Quantitative Detection of Human Adenoviruses in Two Wastewater Treatment Plant Effluent in Amathole District Municipality, Eastern Cape, South Africa. International Union of Microbiological Societies (IUMS 2014), July 27 to August 1 2014, Montreal, Canada.
560. Yinka Titilawo, Larry Obi and Anthony Okoh (2014). *In vitro* Antibiogram of *Escherichia coli* Isolates from Surface Water. WISA 2014 Biennial Conference and Exhibitions, hosted at the Mbombela Stadium in Mpumalanga, Nelspruit, 25-29 May 2014.
561. Gclitshana O., Zhou L., Aghdasi F. and Okoh A.I. (2014). Evaluation of urban-based and rural- based wastewater treatment plants as source of pathogens to the receiving waterbodies. WISA 2014 Biennial Conference and Exhibitions, hosted at the Mbombela Stadium in Mpumalanga, Nelspruit, 25-29 May 2014.

562. T. Sibanda, C.L. Obi and A.I. Okoh (2014). Evaluation of microbiological qualities of Tyume River located in Amathole district, Eastern Cape Province, South Africa. WISA 2014 Biennial Conference and Exhibitions, hosted at the Mbombela Stadium in Mpumalanga, Nelspruit, 25-29 May 2014.
563. O.O. Osuolale and A.I. Okoh (2014). Incidence of *E. coli* O157:H7 and physicochemical qualities of the final effluents of wastewater treatment plants in Buffalo City Local Municipality. WISA 2014 Biennial Conference and Exhibitions, hosted at the Mbombela Stadium in Mpumalanga, Nelspruit, 25-29 May 2014.
564. MA Adefisoye and AI Okoh (2014). An Assessment of the Performance Indices of Two Wastewater Treatment Facilities in Amahlathi Local Municipality of the Eastern Cape Province, South Africa. WISA 2014 Biennial Conference and Exhibitions, hosted at the Mbombela Stadium in Mpumalanga, Nelspruit, 25-29 May 2014.
565. Nwodo, U.U. Green, E., Mabinya, L.V., Obi L and Okoh, A.I. (2014). Characterization of an Exopolymeric Flocculant Produced by a *Brachy bacterium* sp. WISA 2014 Biennial Conference and Exhibitions, hosted at the Mbombela Stadium in Mpumalanga, Nelspruit, 25-29 May 2014.
566. Nongogo V, Sibanda T and Okoh A.I. Prevalence, identification and characterisation of *Vibrio* pathogens from final effluents of selected wastewater treatment plants in the Eastern Cape: Amathole and Chirs Hani District Municipality as a case study. WISA 2014 Biennial Conference and Exhibitions, hosted at the Mbombela Stadium in Mpumalanga, Nelspruit, 25-29 May 2014.
567. Okaiyeto K, Nwodo UU, Mabinya LV, Obi CL and Okoh AI (2014). Production and characterization of bioflocculant produced by *Micrococcus* sp. Leo. WISA 2014 Biennial Conference and Exhibitions, hosted at the Mbombela Stadium in Mpumalanga, Nelspruit, 25-29 May 2014.
568. Okoh A.I and Sibanda T (2014). Evaluation of Microbiological Qualities of Tyume River Located in Amatole District, Eastern Cape Province, South Africa. Presented at the Pittcon Conference 2014; held March 2-6, 2014, in McCormick Place, Chicago, Illinois, USA.
569. Anthony I Okoh (2014). An assessment of the compliance statuses of fourteen wastewater treatment plants in the Eastern Cape Province of South Africa. Society for Experimental Biology Conferenced (SEB2014), University of Manchester, Manchester, UK.
570. Nolwazi L. Bhembe, Anthony I. Okoh, Roland N. Ndip, Ezekiel Green (2014). Differentiation of *Mycobacterium tuberculosis* complex (MTBC) DNA using Region of differences (RDs). Presented at the University of Fort Hare Postgraduate conference held 13th October 2014, Alice campus.
571. Nontongana N, Sibanda T, Ngwenya E and Okoh A.I (2014). Prevalence and antimicrobial profiling of *Escherichia coli* pathotypes isolated from the Kat River and Fort Beaufort abstraction water. Presented at the University of Fort Hare Postgraduate conference held 13th October 2014, Alice campus.
572. Okaiyeto K, Uchechukwu U. Nwodo, Leonard V Mabinya, Anthony I. Okoh (2014). Characterization and flocculating efficiency of a biopolymer produced by consortium of *Halomonas* sp. Okoh and *Micrococcus* sp. Leo. Presented at the University of Fort Hare Postgraduate conference held 13th October 2014, Alice campus.
573. Adefisoye M.A and Okoh A.I (2014). Evaluation of the occurrence of faecal coliforms and

Escherichia coli 0157:H7 in the Discharged final effluents of two wastewater treatment plants located in Amahlathi Local Municipality. Presented at the University of Fort Hare Postgraduate conference held 13th October 2014, Alice campus.

574. Fatokun E.N and Okoh A.I (2014). Evaluation of marine bacteria isolated from Nahoon Beach Eastern Cape Province for lignocelluloses degradation. Presented at the University of Fort Hare Postgraduate conference held 13th October 2014, Alice campus.
575. Igbinosa IH and Okoh AI (2014). Antibiotic susceptibility profile and putative virulence genes in *Aeromonas* species isolated from pig faecal samples. UNIPATH 2014 conference, CSIR ICC Pretoria from 19th - 21st September 2014.
576. Adeyemi OO, Nwodo UU, Arinze AS and Okoh AI (2014). Comparative *in-vitro* activities of trimethoprim-sulfamethoxazole and the new fluoroquinolones against confirmed extended spectrum β -Lactamase producing *Stenotrophomonas maltophilia* recovered from the Eastern Cape Province, South Africa. 2nd International Congress on Bacteriology and Infectious Diseases” during November 17-19, 2014 Chicago, USA.
577. Nwodo UU, Okoh AI and Okoli AS (2014). Understanding the mechanisms underlying bacterial bio-flocculant production. 2nd International Congress on Bacteriology and Infectious Diseases” during November 17-19, 2014 Chicago, USA.
578. Mabinya LV, Ntsaluba L, Nwodo UU, Obi CL and Okoh AI (2014). Characterization of Bioflocculant Produced by *Actinobacterium* sp. Mayor. 2nd International Congress on Bacteriology and Infectious Diseases” during November 17-19, 2014 Chicago, USA.
579. Koba S, Mkwetshana N and Okoh AI (2015). Prevalence and antibiogram profiling of *Escherichia coli* pathotypes recovered from Tyume river in the Eastern Cape Province of South Africa. 6th Congress of European Microbiologists scheduled to take place in Maastricht, The Netherlands, June 7 – 11, 2015.
580. Nolwazi L. Bhembe, Nwodo U. Uchechukwu, Govender Sharlene, Cindy Hayes, Roland N. Ndip, Anthony I. Okoh and Ezekiel Green (2015). Molecular detection and characterization of resistant genes in *Mycobacterium tuberculosis* complex from DNA isolated from tuberculosis patients in the Eastern Cape Province South Africa. 6th Congress of European Microbiologists scheduled to take place in Maastricht, The Netherlands, June 7 – 11, 2015.
581. Nongogo V, Sibanda T and Okoh A.I. (2015). Antimicrobial and virulence factors of *V. parahaemolyticus* isolated from the final effluents of wastewater treatment plants. 6th Congress of European Microbiologists, Maastricht, Netherlands, June 7-11, 2015.
582. Mabinya LV, Ntsaluba L, Nwodo UU and Okoh AI (2015). Characterization of a thermo-stable bioflocculant produced by *Methylobacterium* sp. 6th Congress of European Microbiologists scheduled to take place in Maastricht, The Netherlands, June 7 – 11, 2015.
583. C. Iwu, B. Iweriebor, L. Obi and A. Okoh (2015). Prevalence and antibiogram of some swine associated Shiga toxin producing *Escherichia coli* serogroups in the Nkonkobe Municipality, Eastern Cape Province, South Africa. 115th General Meeting of American Society for Microbiology, New Orleans, Louisiana, May 30-June 2, 2015.
584. Nwodo, UU, Udem CS, Mabinya, LV and Okoh, AI (2015). Bioflocculant production by actinobacteria consortia and media optimization through response surface model. 6th Congress of European Microbiologists scheduled to take place in Maastricht, The Netherlands, June 7 – 11, 2015.

585. Kunle Okaiyeto, Uchechukwu U. Nwodo, Leonard V. Mabinya, Arinze S. Okoli and Anthony I. Okoh (2015). Characterization and flocculating efficiency of a bioflocculant (MBF-UFH) produced by *Bacillus* sp. an alternative to hazardous chemical flocculants used in water treatment. VI International Conference on Environmental, Industrial and Applied Microbiology – BioMicroWorld 2015 (Barcelona-Spain, 28-30 October 2015).
586. Titilawo OY, Adeniji AO and Okoh Anthony (2015). Study of Heavy Metal Pollution in Some Selected Rivers in South-Western Nigeria. 4th YWP-ZA Biennial Conference and 1st Africa-wide YWP Conference, 16-18 November 2015 at the CSIR International Convention Centre in Pretoria, South Africa.

587. Titilawo Yinka, Obi Larry and Okoh Anthony (2015). Multiple antibiotic resistance indexing of *Escherichia coli* to identify high-risk sources of faecal contamination of water. 4th YWP-ZA Biennial Conference and 1st Africa-wide YWP Conference, 16-18 November 2015 at the CSIR International Convention Centre in Pretoria, South Africa.
588. Kunle Okaiyeto, Uchechukwu U. Nwodo, Leonard V. Mabinya, Arinze S. Okoli and Anthony I. Okoh (2015). Investigation of flocculating efficiency and characterization of biopolymer (MBF- UFH) produced by *Bacillus* sp. AEMREG7. 4th YWP-ZA Biennial and 1st African YWP Conference, 16-18 November, 2015, Pretoria, South Africa.
589. Chinwe Juliana Iwu, Benson Chuks Iweriebor, Larry Chikwelu Obi, Albertus Kotze Basson and Anthony Ifeanyi Okoh (2015). Prevalence and antimicrobial susceptibility of *Salmonella* species isolated from commercially raised swine in the Nkonkobe Municipality, Eastern Cape Province South Africa. Academy of Science of South Africa (ASSAf) for the Young Scientists conference. 16-18 September 2015, Birchwood Hotel and OR Tambo Conference Centre, South Africa. **(Best Poster award)**.
590. Olagoke Adeniji, Yinka Titilawo, Omobola Okoh and Anthony Okoh (2015). Organoleptic properties and heavy metals pollution of aquatic environments of Osun State, Southwest Nigeria. 42nd National Convention of the South African Chemical Institute that will be taking place at the Southern Sun Elangeni Hotel from 29 November – 4th December 2015.
591. Anthony I Okoh and Timothy Sibanda (2015). Quality indices of Tyhume River, an important freshwater resource in the Eastern Cape Province. An oral presentation at the Research day Conference of the University of Fort Hare, Alice, 13 October 2015.
592. Titilawo OY, Obi CL and Okoh AI (2016). Prevalence of fluoroquinolones' susceptibilities and bactrim' resistances among *Escherichia coli* isolates of surface water origin. WISA 2016 Biennial conference ICC, Durban from 15th - 19th May 2016.
593. Adesiyun I.M, Bisi-Johnson M.A, Okoh A.I (2016). Antimicrobial susceptibility profile of *Plesiomonas shigelloides* recovered from some rivers in Southwestern Nigeria: implication for public health." A paper accepted for presentation in session S17 Environmental and Applied Microbiology Forum of the Microbiology Society Annual Conference, 21-24 March at the Arena and Convention Centre, Liverpool, UK.
594. Okaiyeto K, Okoli AS, Nwodo UU, Mabinya LV, Okoh AI (2016) Assessment of flocculating activity of a bioflocculant by a *Bacillus* sp. isolated from marine environment. A paper presented at the University of Fort Hare Centenary Conference held on the 3rd-6th July at the University of Fort Hare Alice campus, South Africa.
595. Sunday O. Okoh, Benson C. Iweriebor, Anthony I. Okoh. Bioactive constituents, antibacterial and antiradical properties of the volatile oils of *Searsia chirindensis* (Baker f.) Moffett, comb. University of Fort Hare Centenary held on 1st -6th July, 2016 at the University Sport Complex, Alice, South Africa.
596. Abioye, O.E., Akinpelu, D.A., Okoh, A.I. (2016). Synergistic effects of n-hexane fraction of *Parkia biglobosa* (Jacq.) bark extract and selected antibiotics on bacterial isolates. A poster presentation at the University of Fort Hare Centenary Conference. Date of presentation: 5th July, 2016.
597. Fadare, T. O., Oluduro, A. O., Okoh, A. I. (2016). Microbiological assessment of air in some selected saw mill and furniture factory environments in Osun State,

Southwestern Nigeria. Paper presented at the he University of Fort Hare centenary conference: Transformation through Higher Education and Leadership, University of Fort Hare South Africa. 1st-6th July.

598. Owoseni Mojisola and Okoh, Anthony (2016). Chlorine disinfectant resistance in *Vibrio* species isolated from selected wastewater treatment plants in the Eastern Cape Province. Paper presented at the University of Fort Hare centenary conference: Transformation through Higher Education and Leadership, University of Fort Hare South Africa. 1st-6th July.
599. Adeniji AO, Okoh OO and Okoh AI (2016). Petroleum hydrocarbon profile of water and sediment samples of Buffalo Estuary in the Eastern Cape Province, South Africa, University of Fort Hare Centenary held on 1st -6th July, 2016.
600. Anthony Ifeanyi Okoh and Martins Ajibade Adefisoye (2016). Bacteriological, virological and physicochemical qualities of two typical wastewater treatment facilities in the Eastern Cape Province. A conference paper presented at the Fort Hare Centenary Conference, held at the University of Fort Hare Alice, South Africa from the 3rd to the 6th of July 2016.
601. Osunla, C. A., Adejoro, D. O., Bello, A and Okoh, A. I (2016). Physicochemical and microbiological qualities of water and soil samples from groundnut oil producing industry. University of Fort Hare Centenary Conference, 1st to 6th, July 2016. Paper Presented on 3rd of July: (Poster).
602. Etinosa O. Igbinosa and Anthony I. Okoh (2016). Consequences of inadequately treated wastewater: *Vibrio* pathogens as a case study. PACN Congress 2016 - Sustainable Water Resources for Africa, 30/11/2016 to 02/12/2016, Nairobi, Kenya.
603. Oyenike M. Oladokun, Etinosa O. Igbinosa and Anthony I. Okoh (2017). Multi-drug resistant *Vibrio* species isolated from irrigation water and selected vegetables in Amathole Municipalities in Eastern Cape, South Africa. Microbiology Society Annual Conference 2017, 3-6 April at the EICC, Edinburgh, UK.
604. Larayetan Rotimi, Omobola O. Okoh, Sadimenko Alexander and Anthony I. Okoh (2017). Terpene Constituents of The Flower, Stem and Leaf Part, Phenolic Content, Antimicrobial Potential, Free Radical Scavenging and Antioxidant Activity of *Callistemon citrinus* (Curtis) Skeels (Myrtaceae) From Eastern Cape, South Africa. Pittcoin Conference, California, USA between March 5th - 8th, 2017.
605. Sunday O. Okoh, Omobola O. Okoh, Benson C. Iweriebor & Anthony I. Okoh (2017). Seasonal effects on the bioactive constituents and bioactivities properties of leaf essential oil from *Searsia chirindensis* (Baker f.) Moffett, comb. PITTCON CONFERENCE 2017. CHICAGO, IL USA, March 5-9th 2017.
606. Christy Echakachi Manyi-Loh, Sampson N. Mamphweli, Edson Leroy Meyer and Anthony Ifeanyi Okoh (2017). Analysis of the anaerobic co-digestion of saw dust and pig droppings for biogas production. 16th International Conference on Sustainable Energy Technologies (SET2017), Bologna, Italy, 17-20 July 2017.
607. Oladokun, O. M. and Okoh A.I. (2017). Detection and characterization of multi-drug resistant and putative antibiotics resistance genes from *V. parahaemolyticus* and *V. fluvialis* isolated from edible vegetables in Amathole Municipality, Eastern Cape Province, South Africa. Society for Applied Microbiology (SfAM) Annual Conference, BALTIC Centre for Contemporary Art, Gateshead, UK. 3-6 July, 2017.
608. Olusola-Makinde, O., Adetuyi, F., Arotupin, D. and Okoh, A. (2017). Characterization of drug resistance pattern of bacterial isolates recovered from a bovine abattoir wastewater in Akure, Nigeria. 6th International Conference on

Microbial Communication for Young Scientists, Friedrich Schiller University, Jena, Germany, 20-23 March, 2017.

609. Olusola-Makinde, O., Adetuyi, F., Arotupin, D., Ekundayo, T. and Okoh, A. (2017). Multiple antibiotics and metal resistance depict mobilomic and non-mobilomic drives in bacteria from streams impacted with husbandry and wastewaters in Akure, Nigeria. American Society for Microbiology (ASM) Conference, Microbe 2017, New Orleans, USA, 1-5 June, 2017.
610. Adelabu O. A, Iweriebor B. C, Nwodo U. U, Obi L. C, Okoh A.I (2017). Phylogenetic analysis of partial genomic region of Hepatitis E virus from swine. ASM Conference, Microbe 2017, New Orleans, USA, 1-5 June, 2017.
611. Afolabi, K. O., Iweriebor, B. C., Obi, L. C. and Okoh, A. I. (2017). Molecular detection of *Porcine circovirus 2* in swine herds of Eastern Cape Province, South Africa. ASM Conference, Microbe 2017, New Orleans, USA, 1-5 June, 2017.
612. Ojemaye, M. O., Okoh, O. O. and Okoh, A. I. (2017). Performance of NiFe₂O₄-SiO₂-TiO₂ magnetic photocatalyst for the effective photocatalytic reduction of Cr (VI) in aqueous solutions. Poster Presentation at the RSC Catalysis for Fuels-Faraday Discussion, Lagoon Beach Resort, Cape Town, South Africa, 25 -28 January, 2017.
613. Ojemaye, M. O., Okoh, O. O. and Okoh, A. I. (2017). Covalent functionalization of magnetic nanoparticles with azomethine as a novel material for dye sensitized solar cells. Oral Presentation at the 1st Africa Energy Materials Conference, CSIR, Pretoria, South Africa, 28-31 March, 2017.
614. Okoh, S. O., Iweriebor, B. C., Okoh, O. O. and Okoh, A. I. (2017). Bioactive constituents, antibacterial and antiradical activities of the fruit and leaves essential oils of *Crateagus ambigua* Becker AK. 48th International Symposium on Essential Oils, Pecs, Hungary, 10 – 13 September, 2017.
615. Owoseni, M. C. and Okoh, A. I. (2017). Chlorine inactivation of *Escherichia coli* recovered from wastewater treatment plants in the Eastern Cape, South Africa. *WISA Water Sustainability Symposium*, Cape Town, South Africa, 7-10 May, 2017.
616. Owoseni, M. C. and Okoh, A. I. (2017). Chlorine tolerant bacteria in reclaimed water impacts food chain and security. *Society for Applied Microbiology (SfAM) Annual Conference*, BALTIC Centre for Contemporary Art, Gateshead, UK, 3-6 July, 2017.
617. Owoseni, M. C. and Okoh, A. I. (2017). Chlorine inactivation of *Citrobacter* species recovered from wastewater treatment plants in the Eastern Cape, South Africa. *7th Congress of European Microbiologists*, Federation of European Microbiological Society, Valencia, Spain, 9-13 July, 2017.
618. Salaudeen, T., Okoh, O. O. and Okoh, A. I. (2017). Fate of phthalates in activated sludge treatment in Municipal wastewater treatment plants in the Eastern Cape, South Africa and their impact on receiving water. Oral Presentation at the 19th International Symposium on Advances in Extraction Technologies, Santiago de Compostela, Spain, 27-30 June, 2017.
619. Fadare, T. O. and Okoh, A. I. (2017). Evaluation of vegetables as a reservoir of vibrio species in vegetables marketed in some retail outlets of Eastern Cape South Africa. Paper presented at the Australian Society for Microbiology Annual Scientific Meeting, Hobart Australia. 2nd-5th July.
620. Kingsley E. Ebomah, Martins A. Adefisoye and Anthony I. Okoh (2018). Pathogenic *Escherichia coli* Strains Recovered from Selected Aquatic Resources in the Eastern Cape, South Africa, and Its Significance to Public Health. 31st Annual International Conference of the Biotechnology Society of Nigeria, Ota Nigeria 1-5th

August, 2018.

621. Kunle Okaiyeto, Uchechukwu U. Nwodo, Leonard V. Mabinya, and Anthony I. Okoh. *Bacillus* sp. Isolated from Marine Environment Produces a Glycoprotein with Flocculating Potentials. ASM Microbe 2018, 7 – 11th June, 2018, Atlanta, Georgia, USA.
622. Igwaran A, Iweriebor BC, and Okoh AI (2018). Essential oil composition, antibacterial and antioxidant activities of *Tagetes minuta* flower grown in Cala community Eastern Cape Province, South Africa. 31st Annual International Conference of the Biotechnology Society of Nigeria, Ota Nigeria 1-5th August, 2018.
623. AI Okoh, L Mpondo, A Ngomti, Z Nthsanka, CD Iwu and MA Adefisoye (2018). Antimicrobial susceptibility profiles of coliforms bacteria isolated from fresh vegetable, agriculture soil, livestock and selected rivers in the Eastern Cape, South Africa. A conference paper presented at the American Society for Microbiology Microbe 2018 Conference, Georgia World Congress Centre, Atlanta, GA, United States of America, 7 – 11 June 2018.
624. Nnolim NE, Okoh AI and Nwodo UU (2018). Keratinolytic potentials of *Arthrobacter* sp. isolated from Local Municipality dump site. A paper presented at South African Society for Biochemistry and Molecular Biology-Federation of African Societies of Biochemistry and Molecular Biology (SASBMB-FASBMB) Conference, North-West University Potchefstroom, South Africa, 8-11 July, 2018.
625. T.A. Olasehinde, L.V. Mabinya, A.O. Olaniran, A.I. Okoh (2018). *Ecklonia maxima* and *Gelidium pristoides* exhibit antioxidant activity and beta-amyloid aggregation, cholinesterases and beta secretase: Potential implication for neuroprotection against Alzheimer's disease. A paper presented at South African Society for Biochemistry and Molecular Biology-Federation of African Societies of Biochemistry and Molecular Biology (SASBMB-FASBMB) Conference, North-West University Potchefstroom, South Africa, 8-11 July, 2018.
626. Nolwazi L. Bhembe, Leonard V. Mabinya, Anthony I. Okoh and Ezekiel Green. Molecular Characterization of *Mycobacterium bovis* Isolated from Cattle Lymph Nodes in the Eastern Cape Province, South Africa. Poster presented at the *American Society of Microbiology (ASM)* conference held on 07th -11th of June 2018 at the Georgia World Congress Center, Atlanta, Georgia, United States of America.
627. Nolwazi L. Bhembe, Uchechukwu U. Nwodo, Anthony I. Okoh, Leonard V. Mabinya and Ezekiel Green. Prevalence of tuberculous lymphadenitis in slaughtered cattle in Eastern Cape, South Africa. A poster presented at the *South African Society of Microbiology (SASM)* conference held on 04th – 07th of April 2018 at the Misty Hills Hotel and Conference Centre, Muldersdrift, Johannesburg, South Africa.
628. M. A. Adewoyin and A. I. Okoh (2018). Occurrence of *Acinetobacter* species in selected freshwater resources in the Eastern Cape Province, South Africa. SASM International Conference 2018, Misty Hills Hotel and Conference Centre, Mulderdrift, Johannesburg, South Africa, 4th – 7th April, 2018.
629. M. A. Adewoyin and A. I. Okoh (2018). Occurrence and Implication of *Acinetobacter baumannii* in Water Resources in the Eastern Cape Province, South Africa. ASM Microbe 2018, Georgia World Congress Center, Atlanta, Georgia, USA. 7th – 11th June, 2018.
630. Luyanda Msolo, Etinosa Ogbomoede Igbinosa, Anthony Ifeanyin Okoh. Prevalence and Antimicrobial susceptibility profiles of *Escherichia coli* O157:H7 isolates recovered from three selected dairy farms in the Eastern Cape Province,

- South Africa. Presented at the South African Society for Microbiology conference held at Misty Hills Hotel and Conference Centre in Muldersdrift Johannesburg from 4 - 7 April 2018.
631. Abioye, O.E. and Okoh AI (2018). Prevalence, antibiotic susceptibility pattern and public health implication of pathogenic *Vibrio* spp. isolated from Limpet (*Scutellastra cochlear*) and some estuaries in Eastern Cape, South Africa. Presented at the South African Society for Microbiology conference held at Misty Hills Hotel and Conference Centre in Muldersdrift Johannesburg from 4 - 7 April 2018.
632. Fadare, T. O. and Okoh, A. I. (2018). Occurrence of pathogenic *Vibrio* species in some fresh water resources used for vegetables irrigation in Eastern Cape, South Africa. Paper presented at the proceedings of the South African Society for Microbiology (SASM) conference Johannesburg, South Africa. 4th-7th April.
633. Nontongana, N. and Okoh, A.I. 2018. Appraisal of Wastewater Final Effluents and river water as reservoirs of cholera and non-cholera causing *Vibrio* species: A case study of the Amatole and OR Tambo District Municipality. Poster presentation at the 20th Biennial Conference of the South African Society for Microbiology (SASM) held at Misty Hills Hotel and Conference Centre, Muldersdrift, Johannesburg, South Africa, 4 -7th April.
634. Okeyo, A.N. and Okoh AI (2018). *Vibrio* species in wastewater final effluents and their receiving water bodies: A public health concern. Presented a poster at the 20th Biennial Conference of the South African Society for Microbiology (SASM) held at Misty Hills Hotel and Conference Centre, Muldersdrift, Johannesburg, South Africa, 4 -7th April.
635. Osunla, C.A. and Okoh, A.I. 2018. Distribution and Multiple Antibiotic Resistance profiles of *Vibrio* pathogens in Tsomo, Eastern Cape Province, South Africa. Poster presentation at ASM Microbe 2018 held at Georgia World Congress Center, Atlanta, GA, USA, 7 to 11th of June.
636. Osunla, C.A. and Okoh, A.I. 2018. Molecular epidemiology and antibiotic profiles of environmental *Vibrio* pathogens in Cradock, Eastern Cape Province, South Africa. Oral presentation at the 20th Biennial Conference of the South African Society for Microbiology (SASM) held at Misty Hills Hotel and Conference Centre, Muldersdrift, Johannesburg, South Africa, 4 -7th April.
637. Adeniji AO, Okoh OO and Okoh AI (2018). Oral presentation: Petroleum hydrocarbon profiles of water and sediment of Algoa bay, Eastern Cape, South Africa. Analitika 2018 Conference at Legend Golf and Safari Resort, Mookgopong, Limpopo, South Africa (July 22 - 25, 2018).
638. O. Gcilitshana, U.U. Nwodo and A.I. Okoh (2018). Prevalence of cholera-causing and non- cholera-causing *vibrio* pathogens in South African surface waters and their feeder wastewater treatment plants in the Eastern Cape. ASM Microbe 2018 held at Georgia World Congress Centre, Atlanta, GA, USA, 7 to 11th of June, 2018.
639. Mike O. Ojemaye, Omobola O. Okoh and Anthony I. Okoh (2018). Kinetics, isotherm and thermodynamic studies for the removal of Pb²⁺ and Hg²⁺ from aqueous solution by adsorption onto azomethine functionalized magnetic nanoparticles, NanoAfrica Conference, Salt Rock Hotel, Durban, South Africa – Poster presentation (April 22nd - 25th, 2018).
640. Mike O. Ojemaye, Omobola O. Okoh and Anthony I. Okoh (2018). Study on the mechanism of adsorption of metal ions onto azomethine functionalized magnetic nanoparticles in a single- and competitive-aqueous system, Recent Trends

and Advancements in the field of Chemical Sciences, 8th International Conference on Chemical Sciences, London, UK. E-Poster presentation (June 14-15th, 2018) - Published.

641. K. E. Ebomah, M. A. Adefisoye and A. I. Okoh (2018). Pathogenic *Escherichia coli* Strains Recovered from Selected Aquatic Resources in the Eastern Cape, South Africa, and Its Significance to Public Health. *An oral presentation at the 31st Annual International Conference of the Biotechnology Society of Nigeria, Ota Nigeria 1-5th August, 2018.*
642. Ekundayo, T. C. and Okoh, A. I. (2018). Plesiomonas-related research disproportionate with high prevalent rates in Africa presented at the South African Society for Microbiology conference held at Misty Hills Hotel and Conference Centre in Muldersdrift Johannesburg from 4 - 7 April 2018.
643. O. Gcilitshana, U. U. Nwodo and A. I. Okoh (2018). Two wastewater treatment plant effluents as sources of pathogenic *Vibrio* strains to their receiving water bodies. *A poster presented at the American Society of Microbiology (ASM) conference held on 07th -11th of June 2018 at the Georgia World Congress Center, Atlanta, Georgia, United States of America.*
644. Adelabu, O.A., Iweriebor, B.C., Mabinya, L.V., Obi, L.C. and Okoh, A.I., 2019. Genomic Profiling for *Rickettsia (ompA and ompB)* Gene Recovered from *Ixodidae* in the Eastern Cape, South Africa. *Poster presentation at the American Society for Microbiology (ASM) Microbe, June 20- 24, 2019, San Francisco, USA*
645. Adelabu, O.A., Iweriebor, B.C., Mabinya, L.V., Obi, L.C. and Okoh, A.I., 2019. Genomic Profiling for *Rickettsia (ompA and ompB)* Gene Recovered from *Ixodidae* in the Eastern Cape, South Africa. *Poster presentation at the 8th Congress of European Microbiologists (FEMS 2019), 7-11 July 2019, Glasgow, Scotland.*
646. Ebomah, K.E., Adefisoye, M.A. and Okoh, A.I., 2019. Pathogenic *Escherichia coli* strains recovered from selected aquatic resources in the Eastern Cape, South Africa and its significance to public health. *Poster presentation at the American Society for Microbiology (ASM) Microbe, June 20-24, 2019, San Francisco, USA.*
647. Ebomah, K.E., Adefisoye, M.A. and Okoh, A.I., 2019. Pathogenic *Escherichia coli* strains recovered from selected aquatic resources in the Eastern Cape, South Africa and its significance to public health. *Poster presentation at the 8th Congress of European Microbiologists (FEMS 2019), 7-11 July 2019, Glasgow, Scotland.*
648. Nontongana, N. and Okoh, A.I., 2019. Appraisal of wastewater final effluents and river water as reservoirs of cholera and non-cholera causing *Vibrio* species: A case study of the Amathole and OR Tambo District Municipality. *Poster presentation at the 8th Congress of European Microbiologists (FEMS 2019), 7-11 July 2019, Glasgow, Scotland.*
649. Igwaran, A., Iweriebor, B.C. and Okoh, A.I., 2019. Molecular Characterization and Antimicrobial Resistance Pattern of *Escherichia coli* Recovered from Wastewater Treatment Plants in Eastern Cape South Africa. *Poster presentation at the American Society for Microbiology (ASM) Microbe, June 20-24, 2019, San Francisco, USA.*
650. Igwaran, A., Iweriebor, B.C. and Okoh, A.I., 2019. Molecular Characterization and Antimicrobial Resistance Pattern of *Escherichia coli* Recovered from Wastewater Treatment Plants in Eastern Cape South Africa. *Poster*

- presentation at the 8th Congress of European Microbiologists (FEMS 2019), 7-11 July 2019, Glasgow, Scotland.
651. Okaiyeto, K., Mabinya, L.V. and Okoh A.I., 2019. Biosynthesis of silver nanoparticles mediated by aqueous extract of *Thuja orientalis* leaf: Characterization and potential applications. *Poster presentation at the 8th Congress of European Microbiologists (FEMS 2019), 7-11 July 2019, Glasgow, Scotland.*
652. Olisah, C., Okoh, O.O. and Okoh, A.I., 2019. Levels, tissue distribution and health risk assessment of organochlorine pesticides associated with *Pomadasys Commersonii* and *Mugil Cephalus* from selected estuaries in Eastern Cape Province, South Africa. *An oral presentation at 257th ACS Spring Meeting and Exposition 2019, March 31th - April 4th 2019, Orlando, Florida, USA.*
653. Ntozonke, N., Nwodo, U.U., Okaiyeto, K., Okoli, A.S. and Okoh A.I., 2019. A marine bacterium, bacillus sp. isolated from the sediment samples of alga bay in South Africa produces a polysaccharide-bioflocculant. *Poster presentation at the 8th Congress of European Microbiologists (FEMS 2019), 7-11 July 2019, Glasgow, Scotland.*
654. Ojemaye, M.O., Okoh, O.O. and Okoh, A.I., 2019. Surface modified magnetic nanoparticles as efficient adsorbents for heavy metal removal from wastewater: Progress and prospect. *An oral presentation at the 257th ACS Spring Meeting and Exposition 2019, March 31th - April 4th 2019, Orlando, Florida, USA.*
- April 4th 2019, Orlando, Florida, USA.
655. Ojemaye, M.O., Okoh, O.O. and Okoh, A.I., 2019. Synthesis of terpyridine functionalized super-paramagnetic nanoparticles and its effectiveness for the removal of Rhodamine B from wastewater. *An oral presentation at the 257th ACS Spring Meeting and Exposition 2019, March 31th - April 4th 2019, Orlando, Florida, USA.*
656. Adeniji, A.O., Okoh, O.O. and Okoh, A.I., 2019. Distribution pattern and health risk assessment of polycyclic aromatic hydrocarbons in the water and sediment of Algoa Bay, South Africa. *Poster presentation at the 257th ACS Spring Meeting and Exposition 2019, March 31th - April 4th 2019, Orlando, Florida, USA.*
657. Ekundayo, T. C. and Okoh, A. I. (2019). Molecular characterisation and differential numerical delineation of computer-assisted analysis of DNA fingerprints of *Plesiomonas shigelloides* into strain clusters. 16th International Symposium "Horizons in Molecular Biology" held at the Max Planck Institute for Biophysical Chemistry, in Göttingen, Germany, 9 – 12 September 2019.
658. Ekundayo, T. C. and Okoh, A. I. (2019). Evidence of virulence traits in *Plesiomonas shigelloides* from classical experimentation and bioinformatics perspectives. First Nigerian Bioinformatics Conference, held at Nigerian Institute of Medical Research, Yaba Lagos, Nigeria, 23 – 26 June 2019.
659. Ekundayo, T. C. and Okoh, A. I. (2019). Molecular characterisation and differential numerical delineation of computer-assisted analysis of DNA fingerprints of *Plesiomonas shigelloides* into strain clusters. 16th International Symposium "Horizons in Molecular Biology" held at the Max Planck Institute for Biophysical Chemistry, in Göttingen, Germany, 9 – 12 September 2019.
660. Nnolim NE, Okoh AI and Nwodo UU (2019). Enhanced production of keratinolytic protease by *Bacillus* sp. FPF-1 using agro-wastes formulation. A paper presented at 32nd Annual International Conference of Biotechnology Society of Nigeria (BSN), **August 18-22, 2019**, IITA Ibadan, Nigeria.

661. Adelabu OA, Ayabulela N, Iweriebor BC, Obi LC and Okoh AI (2019). Phylogenetic Analysis of ompB gene of Spotted Fever Group Rickettsiae recovered from Domesticated Animals in the Eastern Cape, South Africa. Oral presentation at The World Academy of Science Symposium, 'ONE HEALTH: A focus on Infectious Diseases in Africa', May 27- 28, 2019, Durban, South Africa.
662. Adeniji AO, Okoh OO and Okoh AI (2019). Distribution of polycyclic aromatic hydrocarbons in the water and sediment of Buffalo River Estuary, South Africa and associated health risks. SAMRC Symposium at International Convention Center (ICC), East London, South Africa. ePoster presentation (August 29 – 30, 2019).
663. Ebomah KE and Okoh AI (2019). Detection of carbapenem-resistant Klebsiella species in selected environmental niches in the Eastern Cape Province, South Africa. An ePoster presented at South African Medical Research Council conference (SAMRC) Symposium held between 29 and 30 August 2019 at the International Convention Center (ICC), East London, South Africa.
664. Igwaran A, Iweriebor BC and Okoh AI (2019). Molecular Characterization and Antimicrobial Resistance Pattern of Escherichia coli Recovered from Wastewater Treatment Plants in Eastern Cape South Africa. An ePoster presented at South African Medical Research Council conference (SAMRC) Symposium held between 29 and 30 August 2019 at the International Convention Center (ICC), East London, South Africa.
665. Iwu CD and Okoh AI (2019). Characterization and antibiogram fingerprints of members of Enterobacteriaceae recovered from irrigation water and agricultural soil samples in Amathole and Chris Hani District municipalities in Eastern Cape Province of South Africa. An ePoster presented at South African Medical Research Council conference (SAMRC) Symposium held between 29 and 30 August 2019 at the International Convention Center (ICC), East London, South Africa.
666. Mpaka L, Adefisoye MA and Okoh AI (2019). Phenotypic characterization of antimicrobial resistant Enterobacteriaceae isolates recovered from vegetables, hospital effluents and river water. An ePoster presented at South African Medical Research Council conference between 29th and 30th August 2019 at the International Convention Center (ICC), East London, South Africa.
667. Msolo L, Iweriebor BC and Okoh AI (2019). Bacterial co-infection of diarrheagenic E. coli pathotypes and Salmonella species among Gastroenteritis patients in some selected pastoral hinterlands of the Amathole District Municipality, Eastern Cape, South Africa. An ePoster presented at South African Medical Research Council conference between 29th and 30th August 2019 at the International Convention Center (ICC), East London, South Africa.
668. Okaiyeto K, Mabinya LV, Okoh AI (2019). Antibacterial activity of silver nanoparticles produced via green synthesis using aqueous extract Oedera genistifolia leaf as a reducing and capping agent. An ePoster presented at South African Medical Research Council conference between 29th and 30th August 2019 at the International Convention Center (ICC), East London, South Africa.
669. Qaqamba M, Uchechukwu UN and Okoh AI (2019). Distribution of virulence determinants in some members of the ESKAPE pathogens isolated from selected Hospital wastewater effluents in the Eastern Cape, South Africa. An ePoster presented at South African Medical Research Council conference between 29th and 30th August 2019 at the International Convention Center (ICC), East London, South

Africa.

670. Olusegun.O. Ikusika, Conference. Mpendulo, Fabian. Fon, Titus.J. Zindove and Anthony Okoh 2020. Effect of dietary supplementation with fossil shell flour on enteric methane output, and position-dependent variations in Dohne-merino wethers. In: 22nd International Conference on Ruminant Animal Nutrition and Recent Development, January 06-07, 2020 in Tokyo, Japan.
671. Olusegun.O. Ikusika, Conference. Mpendulo, Titus.J. Zindove and Anthony. I. Okoh. 2019. Hematobiochemical and parasitic profile of Dohne merino wethers fed diet supplemented with varying amounts of Fossil shell flour. In: International Conference on Food Technology & Nutrition, September 23-25, 2019 in Dubai, UAE.

Invited Keynote Addresses

672. Okoh AI (2013). Building a world class and nationally responsive Faculty of Science at Wits. A lecture presented to the Faculty of Science, University of Witwatersrand, South Africa.
673. Okoh AI (2013). Water and its microbiome: our allies or nemeses? You be the judge! A professorial inaugural address delivered at the University of Fort Hare, Alice Campus on 6 November 2013.
674. Okoh AI (2013). Emerging challenges in water treatment: a need for the review of some set guidelines and treatment options. A keynote address delivered at the 18th Biennial South African Society for Microbiology (SASM 2013), 25-27 November 2013, Bela-Bela, South Africa.
675. Okoh AI (2014). The water microbiome divide: indispensable resources or agents of perdition? 2014 Distinguished Guest Lecture of the Faculty of Science, Obafemi Awolowo University, Ile-Ife, 26 June 2014.
676. Okoh AI (2014). Trodding the water microbiome terrain: important resources or agents of perdition? A distinguished guest lecture delivered at Centre National de Recherche Agronomique (CNRA), Abidjan, Cote d'Ivoire on 5 August 2014.
677. Okoh AI (2014). Emerging challenges in water quality: a call to arm for the academia. A keynote lecture delivered at the research day of the University of Fort Hare on 6 October 2014.
678. Okoh AI (2015): "An inquest into the water microbiome milieu and the demands of a world class university". A distinguished guest lecture delivered at the University of Nigeria, Nsukka on 5th February 2015.
679. Okoh AI (2015). An inquest into the water microbiome and emerging challenges in water treatment: a need for the review of some set guidelines and treatment option. An invited Plenary Lecturer delivered at the SOS2015 Conference, Federal University of Technology, Akure, Nigeria, 1-4 July 2015.
680. AI Okoh (2015). The water microbiome: biotechnological tool in water quality challenges. A lead opening keynote address delivered at the 28th congress of the Biotechnology Society of Nigeria, Godfrey Okoye University, Enugu State, Nigeria, 19-29 August 2015.
681. Okoh AI (2016). Antimicrobial resistance in water environments: a growing concern. A presentation at the WRC workshop on emerging contaminants and pathogens in drinking water and public health risks, at the PHASA conference, 19th September 2016, ICC East London, South Africa.

682. Okoh AI (2016). Water research initiatives at the University of Fort Hare. A lead presentation on Water on behalf of the South Africa representatives at the Oman - South Africa Workshop on Water & Agri-biotechnology 23-24 February 2016 held at the Sultan Qaboos University, Muscat Oman.
683. Okoh AI (2016). Increasing incidences of chlorine disinfectant resistant pathogens: an emerging challenge in microbial water quality. An invited paper presented at the WRC workshop on the 18th May 2016, within the WISA2016 Biennial conference held at the ICC Durban, 15-20 May 2016.
684. Okoh AI (2016). The Role of Biotechnology in the water sector and associated emerging challenges. A plenary paper delivered at the 29th Annual Conference and General meeting of the Biotechnology Society of Nigeria which held in Calabar, 28-31 September 2016.
685. Okoh AI (2016). Emerging challenges in water treatment and the need for academia-industry- government partnership. A plenary paper presented at the Skills drought in the Water sector Discussion Forum hosted by the NSTF Science Councils sector, 26-27 September 2016, Emperors Palace Convention Centre, 63 Jones Road, Kempton Park, Gauteng.
686. Okoh AI (2016). The Water Research Initiatives of the University of Fort Hare. 1st Tunisian- South African International-Workshop on Microbial Ecology and Biotechnology in Stressful Environments; November 4th - 6th 2016, ISBST, Sidi Thabet, Tunisia.
687. Okoh AI (2017). New Insight into Chlorine Disinfectant usage in Water quality: A need for review of Existing Guidelines. A lead keynote address delivered at the 30th Annual Conference of the Biotechnology Society of Nigeria, 27-30 August 2017 at Federal University of Technology, Minna, Nigeria.
688. Okoh AI (2018). New challenges in water treatment as a driver for novel alternatives in the water sector: Water Research initiatives of the University of Fort Hare as case study. A Distinguished Guest lecture of the Faculty of Science, Adeleke University delivered on 12 March 2018.
689. AI Okoh (2019). Emerging challenges in the aquatic milieu: increasing incidences of antibiotic resistance determinants and the need for alternatives to hazardous chemical flocculants. International scientific and technical Symposium "Second International Kosygin Readings "Energy and recourse efficient environmentally friendly technologies and equipment", dedicated to the 100th anniversary of the Kosygin Russian State University, The Kosygin State University of Russia, 29th – Oct – 2019 to 1st – Nov – 2019.
690. Nolonwabo Nontongana, Allisen Okeyo and Anthony I. Okoh, (2019). Appraisal of wastewater final effluents as reservoirs of cholera and non-cholera Vibrio species: A case study of the two wastewater treatment plants in Amatole and O.R Tambo District Municipality, South Africa. A paper presented at the *University of Fort Hare Research and Innovation Day* on the 18th October 2019, Alice.
691. Ohoro, C.R., Adeniji, A.O., Okoh, A.I. and Okoh, O.O (2019). Polybrominated Diphenyl ethers in a selected canal in the Eastern Cape Province, South Africa. A poster presented at the *University of Fort Hare Research and Innovation Day* on the 18th October 2019, Alice..
692. Olusegun O. Ikusika, Conference T. Mpendulo, Titus J. Zindove, and Anthony I. Okoh (2019). Influence of fossil shell flour supplementation on wool parameters, feed preference and body condition scores of Dohne Merino wethers.

An oral presentation at the *Postgraduate Day Conference* on the 8th November 2019, University of Fort Hare, Alice.

693. Mpondo L. and Okoh A.I (2019). Prevalence and antibiogram profiles of *Listeria* species and *Enterobacteriaceae* isolated from river and irrigation water collected from Sarah Baartman District Municipality in the Eastern Cape Province, South Africa. An oral presentation at the *Postgraduate Day Conference* on the 8th November 2019, University of Fort Hare, Alice.
694. Qaqamba Mapipa, Uchechukwu U. Nwodo and Anthony I, Okoh (2019). Distribution of virulence determinants in some members of the ESKAPE pathogens isolated from selected Hospital wastewater effluents in the Eastern Cape, South Africa. A poster presented at the *Postgraduate Day Conference* on the 8th November 2019, University of Fort Hare, Alice..
695. Lindelwa Mpaka, Martins A. Adefisoye and Anthony I. Okoh (2019). Incidence of antimicrobial resistant Enterobacteriaceae from vegetables in the Eastern Cape Province, South Africa. A poster presented at the *Postgraduate Day Conference* on the 8th November 2019, University of Fort Hare, Alice.

Contributions to Technical Reports

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COLLABORATIONS/LINKAGES

Over the years, I have established collaboration and linkages with the following individuals/institutions:

- University of Pretoria (Prof Lise Korsten): Partnerships for Enhanced Engagement in Research (PEER) Program grant: Characterizing and tracking of antimicrobial resistance in the water-plant-food public health interface: An emerging water, sanitation and hygiene issue (2016-2019). Benefit includes joint proposal presentations, sharing of resources and joint publications.
- University of KwaZulu Natal (Prof AO Olaniran): Characterization of extracts from selected algal species and their modulatory effects on some biomolecules implicated in Alzheimer's disease (2016 to date). An emerging water, sanitation and hygiene issue (2016-2019). Benefit includes joint proposal presentations, joint supervision of student, sharing of resources and joint publications.
- Prof Arinze S. Okoli; GenØk – Centre for Biosafety, University of Tromso, Norway. Benefit includes joint proposal presentations, joint supervision of student, sharing of resources and joint publications.
- Prof Rui Krause, Department of Chemistry, Rhodes University. An emerging water, sanitation and hygiene issue (2016-2019). Benefit includes, sharing of resources and joint publications.
- Prof HC Hoppe Department of Biochemistry and Microbiology, Rhodes University. Benefit includes, sharing of resources and joint publications.

- Prof Brett Pletschke; Rhodes University, Grahamstown, South Africa. Benefit includes joint proposal presentations, sharing of resources and possibly joint publications.
- Prof Bruce Sithole; Director CSIR, Durban, South Africa. Benefit includes joint proposal presentations, sharing of resources and possibly joint publications.
- Prof Pravin Kendrekar; Department of Health Sciences Faculty of Health and Environmental Sciences, Central University of Technology, Free State, Bloemfontein, South Africa. Benefit includes joint proposal presentations, sharing of resources and possibly joint publications.
- Prof Timo Niedermeyer; Department of Pharmaceutical Biology/Pharmacognosy, Institute of Pharmacy, University of Halle-Wittenberg, Halle (Saale), Germany.
- Prof Chibuike Udenigwe; University Research Chair, School of Nutrition Sciences, University of Ottawa, Canada. Currently discussing areas of collaborations.
- Prof Atef Jaouani; University of Tunis El Manar, Tunis, Tunisia. Benefit includes joint proposal presentations, sharing of resources, students exchange and joint publications.
- Prof Hani Moubasher; University of Cairo, Egypt. Benefit includes joint proposal presentations, sharing of resources, students exchange and joint publications.
- Prof Aselm P. Moshi; Tanzania Industrial Research and Development Organization, Tanzania. Benefit includes joint proposal presentations, sharing of resources and joint publications.
- Prof Lewis Ezeogu; Head, Department of Microbiology, University of Nigeria, Nsukka. Benefit includes joint proposal presentations, sharing of resources, students exchange and joint publications.
- Prof Collin N. Ateba; Head, Department of Biological Science, Faculty of Natural and Agricultural Sciences, University of North-West, South Africa. Benefit includes joint proposal presentations, sharing of resources, students exchange and joint publications.
- Prof O Babalola, Department of Biological Science, Faculty of Natural and Agricultural Sciences, University of North-West, South Africa. Benefit includes joint proposal presentations, sharing of resources, students exchange and joint publications.
- Prof Songca, University of Zululand, South Africa. Benefit includes joint proposal presentations, sharing of resources and joint publications.
- Prof AK Basson University of Zululand, South Africa. Benefit includes joint proposal presentations, sharing of resources and joint publications.
- Prof CL Obi, Sefako Makgatho Health Sciences, University, Ga-Rankuwa, Pretoria, South Africa. Benefit includes joint proposal presentations, sharing of resources, joint supervision of students and joint publications.
- Prof CL Obi, Sefako Makgatho Health Sciences, University, Ga-Rankuwa, Pretoria, South Africa. Benefit includes joint proposal presentations, sharing of resources, joint supervision of students and joint publications.
- Dr M Bisi-Johnson, Department of Microbiology, Obafemi Awolowo University, Ile-Ife, Nigeria. Benefit includes sharing of resources, student exchange and joint publications.
- Prof AO Igbinosa, University of Benin, Nigeria. Benefit includes sharing of resources, sharing of resources and joint publications.
- Prof Lucy Semerjian, Department of Environmental Health Sciences, University of Sharjah, United Arab Emirates. Collaborations on environmental health.

SUMMARY OF CURRENT RESEARCH INTERESTS

A summary of my research interests include the following thrusts:

Quality indices and genomics of water resources and emerging challenges in the water sector.

The following are particular themes of my research in this thrust:

- Challenges water pollution from point and non-point sources especially impacts from municipal and industrial wastewater treatment plants.
- Increasing challenges of survival of microbial pathogens in treatment processes.
- Increasing incidences of chlorine disinfectant resistant pathogens, suggesting the need for review of current dosing regimens.
- Implication of some chemicals (e.g coagulants/flocculants) used in water treatment in hazards and the need for development of safe and environmentally friendly alternatives.
- Emerging chemical pollutants such as hydrocarbons, metals ions and endocrine disruptor compounds including organochlorine pesticides and phenolic compounds amongst others and other EDCs in the aquatic environment and development of innovative nanomaterials for use in their removal from water/wastewater.

Antimicrobial resistance in the water-plant-food public health interface.

The rising incidence of antibiotic resistance has become a major global health concern and a subject of intensive investigation in my group, including evaluation of the reservoirs of antimicrobial resistance in the water-plant-food public health interface, and innovative methods for the removal of antimicrobial resistances determinants in water. Very scanty work has so far been done in this domain in UAE.

Biotechnology

This includes the exploration and exploitation of aquatic microbial diversity for important biologics of health and biotechnological relevance especially in water treatment. Bioflocculants are our current emphasis in this regards.