

Helen N. Onyeaka, Ph.D.

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University Education and Degrees Awarded

2018	Higher Education Academy FHEA – Teaching and learning in higher education
2017	UK Chartered Institute of Environmental Health (CIEH) Registered Trainer – Food Microbiology
2017	Postgraduate Certificate in Academic Practice
2014	Level 3 award in Nutrition for Healthier Food and Special Diet
2013	Level 3 award in HACCP for Food Manufacturing
2012	Knowledge Academy Prince 2 – Project Management
2011	Birmingham City University Post Compulsory Education and Training – Accredited Mentor
2008	University of Warwick <i>PGCE in Biology</i>
2004	University of Birmingham <i>Doctor of Philosophy in Biochemical Engineering</i> Research area: The impact of the process environment on the physiology of the individual cell or organism and use of this knowledge to predict as well as optimise future process performance. Thesis: Scale-up of <i>E. coli</i> fed-batch fermentation; effect of a changing microenvironment with respect to pH, glucose, and oxygen limitation.
1998	Wolverhampton University <i>MSc Biomedical Sciences</i> Thesis: The mechanisms involved in the onset of labour: the role of progesterone and cortisol on nitric oxide production by choriodecidual and syncytiotrophoblast cells in culture. Dissertation: Group B streptococcal infection in the neonatal period.
1991	Federal University of Technology Owerri, Nigeria <i>BSc Industrial Microbiology</i>

Career Since Graduation

August 2022 – Present	Associate Professor School of Chemical Engineering, University of Birmingham
Sept 2012 – July 2022	Lecturer School of Chemical Engineering, University of Birmingham
July 2009 - July 2012	City College Birmingham A Level Course Team Leader / Biology and Health Studies Lecturer
July 2008 - July 2009	Park Hall School Castle Bromwich NQT

Feb 2008 - June 2008	Cockshut Hill Technology College <i>Teacher Trainee PGCE Placement 2</i>
Oct 2007 - Dec 2008	Bishop Ullathorne Catholic School, Coventry <i>Teacher Trainee PGCE Placement 1</i>
July 2005 - March 2007	Golden Crown Health Services <i>Research Coordinator</i>
Oct 2004 - Jan 2005	University of Birmingham <i>Research Fellow</i>
Oct 2003 - Jan 2004	University of Birmingham <i>Research Associate</i>
1998 - 2000	University of Birmingham <i>Research Associate</i>
1995 - 1997	Maternity Career break
1994 - 1995	Airedale Gen. Hospital, West Yorkshire <i>MLSO</i>
1992 - 1994	Career break to start a family
1991 - 1992	NYSC (Pabod Breweries Limited, Nigeria) <i>Microbiologist</i>

Major Research Interests

- Microbial responses to environmental stress
- Use of natural preservatives in food processing
- Detection of non-recombinant protein using flow cytometry
- Brewing and flow cytometry
- Food fermentation processing
- Flow cytometry, understanding the interaction of the cell with the process engineering environment

Research Supervision Experience

- Chairperson for the Oral Examination to PhD Chemical Engineering student (1 PhD viva)
- MSc Food Safety, Hygiene & Management students (Supervised over MSc 55 projects)
- MSc Environmental and Public Health
- MSc Chemical Engineering (University of Al-Qadisiyah, Iraq) (2021 -2023)
- PhD Chemical Engineering (Currently supervising 4 PhD students, as the primary supervisor. 2 PhD successful completions, as co-supervisor)
- Internal examiner to PhD Chemical Engineering students (4 PhD Vivas)

Teaching Experience

2012 - Present	Reaction Equilibrium and Thermodynamics (BSc - Chem Engineering, yr 1)
2012 - Present	Veterinary Conversion (PGCert)
2012 - Present	Introduction to Food Law & Microbiology (CertHE yr 1)
2012 - Present	Food Legislation (CertHE yr 2)
2012 - Present	Food Hygiene Management Systems (MSc)
2012 - Present	Public and Environmental Health Sciences (MSc)
2012 - Present	Public Health (MSc)
2012 - Present	Principles of Nutrition (MSc)
2012 to Present	Investigating Outbreak (MSc)

Teaching Leadership

Sept 2019 - Present	Programme Director; MSc Food Safety, Hygiene & Management Program Link
2019 - Present	Creator & Module Leader; Food and Microbes (under MSc Food Safety, Hygiene & Management)
2019 - Present	Creator & Module Leader; Investigating Outbreak (under MSc Food Safety, Hygiene & Management; Approximately 30 students)
2015 - 2020	Module Leader; Principles of Nutrition (under MSc Food Safety, Hygiene & Management; Approximately 25 students)
2013 - 2020	Module Leader; Food Microbiology (under CertHE Food Safety, Hygiene & Management)
2013 - Present	Personal Academic Tutor for BSc Chemical Engineering and MSc Food Safety, Hygiene & Management (Approximately 30 students)
2013 - Present	Programme Team Manager of four UoB permanent lecturers, one part-time lecturer, a number of visiting lecturers, and external examiners.

Membership relating to Academic or Professional distinction

2021 - Present	Full Member; Microbiology Society
2021 - Present	Member; International Society of Female Professionals
2021 - Present	Member; International Union of Food Science and Technology
2018 - Present	Member; International Association of Food Protection (IAFP)
2017 - Present	Fellow; Higher Education Academy – Advanced HE
2014 - Present	Full Member; Society of Applied Microbiology UK

Committee Membership

March 2024	Member; Scientific Committee, 2 nd Global Health Initiative World Congress on Global Food Safety and Security (https://gheworldcongress.org/scientific-committee/)
March 2023	Member; Royal Society of Chemistry, Birmingham & West Midlands Local Section Committee (https://www.rsc.org/membership-and-community/connect-with-others/geographically/local-sections/birmingham-and-west-midlands/)
February 2023	Member; Scientific Committee, International Conference on Advanced Food Technology and Nutrition (https://www.keynoteconnect.org/upcoming-conferences/foodtechnology/scientific-committee.html)
2022 - Present	Member; Scientific Committee, Global Harmonization Initiative.
2022 - Present	Member; Scientific Committee, Helix Biogen Institute (https://www.helixbiogeninstitute.org/)
2021 - Present	Research Fellow; Public Policy in Africa Initiative (https://www.publicpolicyafrica.org/team)
2020 - Present	Member; Self-assessment Team on the Athena SWAN Bronze Award Application.
2019 - Present	Co-Chair; E-Connect (Shortening the Attainment Gap), University of Birmingham

2019 - Present	Member; Action Participation Plan Working Group (APP) (Chemical Engineering Rep), University of Birmingham
2019 - Present	Member; Academic Promotion Working Group, University of Birmingham
2019 - Present	Vice Chair; Equally and Diversity Committee, University of Birmingham
2017 - 2020	Leader; Athena SWAN Bronze Award Application
2015 - Present	Member; College Equality Groups, University of Birmingham
2015 - 2019	Founder and Co-Chair; Equally and Diversity Committee, University of Birmingham
2015 - 2019	Staff Liaison; Staff and Student Committee, University of Birmingham

Indicators of Esteem/Invitations

	22nd June 2023	Guest Speaker; Unlocking the Potential: Harnessing Food Waste for a Sustainable Future, Birmingham Professional Forum, University of Birmingham, UK
7th June 2023		Guest Speaker; Ensuring Food Safety: Addressing Microbial Contamination of Vegetable Products, World Food Safety day, Izmir Democracy University, Turkey
5th June 2023		Guest Speaker; World Environment Day (WED), The Green Institute, Ondo, Nigeria.
1 st May 2023		Guest Speaker; Raising your Profile: Steps to Boosting Research Visibility and Recognition. Helix Biogen Institute, Oyo State, Nigeria
3 rd March 2023		Guest Speaker; Academic Spotlight: Importance of LinkedIn for Professionals and how to get started, Advanced Social Media Workshop for Durham University Academics Colleagues. Durham University, UK.
20 th Feb 2022		Guest Speaker; Careers Talks for Birmingham City University's second year Biomedical Science Students, Birmingham City University, UK.
19 th Oct & 16 th Nov 2022		Guest Speaker; Importance of LinkedIn for Professionals and How to get started. Advanced Social Media Training for Researchers at University of Birmingham and Loughborough University
21 st May 2022		Guest Speaker; Rudiment of Mentorship/mentor-mentee relationship.
14 th - 16 th July 2021		Keynote Speaker; Africa Food Safety & Quality Summit.
6 th - 7 th Oct 2021		Event Organiser; 4 th international conference on materials engineering and science (IconMEAS), at the University of Duhok, Duhok – Kurdistan, Iraq in collaboration with University of Birmingham (Upcoming)
28 th Jan 2021		Keynote Speaker; Africa Agribusiness Summit 2021
25 th Aug 2020		Panellist; ABIQ, Discussion on Key Areas of Development in Nigeria, Dubai, UAE
28 th Feb 2020		Panellist; One Africa Network (OAN), Discussion on People and Business in Science, Technology, Engineering and Healthcare, Birmingham UK

- 22nd -23rd Oct 2018 **Invited Talk;** The Effect of Cinnamaldehyde on Escherichia coli Survival during Low Temperature Long Time Cooking – International Conference on Food Microbiology and Food Safety (ICFMFS), Dubai, United Arab Emirates
- 15th -16th Oct 2013 **Event Organiser;** Food Microbiology for Enforcement and Industry, University of Birmingham

Research Grants and Awards Received

- 2017 University of Birmingham Education Enhancement Fund awards
- 2021 Collaborative (Host) International Development Fund grant of £5000 from the Society for Applied Microbiology, UK

Other Relevant Information

- 2023 - 2028 **Editor;** African Food Research Network (AfREN) (<https://afrenet.org/#>)
- 2022 – Present **Reviewer Board Member;** Multidisciplinary Digital Publishing Institute (MPDI) Journals ([Journal Link](#))
- 2021 - Present **Peer Reviewer;** **Journal** of Engineering and Sustainable Development
- 2019 - Present **Guest Lecturer;** Food and Nutrition, School of Health Sciences, Birmingham City University
- 2020 - Present **Course Developer and Instructional Designer;** Osiri University, Lincoln, Nebraska, USA
- 2019 - Present **Reviewer Board Member;** Foods ([Journal Link](#))
- 2019 - Present **Editorial Board Member;** Journal of Engineering and Sustainable Development (JEASD) ([Journal Link](#))
- 2017 - Present **Registered Trainer;** UK Chartered Institute of Environmental Health (CIEH) in collaboration with FSA – developed and carried out training food safety officers in England and Wales on the microbiology of sous vide processes
- June - Oct 2017 **Project Manager;** Research project in collaboration with pH Seven Interim Management Ltd (07407495). The project was led at the University of Birmingham and it was focused on the evaluation of a portable near-infrared spectrometer for the detection and quantitation of the ice glaze on frozen fish.
- 2016 - Present **Guest Lecturer;** MSc Public Health, University of Birmingham
- 2015 - Present **Lecturer;** Widening Horizon (MOMD)
- 2015 - 2019 **Course Developer & Instructional Designer;** Delivered lectures and produced basic microbiology training materials to the bi-annual Food Hygiene Premises Inspection course for the Saudi Food & Drugs Authority (SFDA) and SFDA Food Microbiology and Food Manufacturing.
- July - Aug 2014 CUBEL Summer School – Food Safety
- 2003 - 2005 Research project in collaboration with Geneosis on the production of “over the counter” male fertility kit now marketed as Fertell®

Enterprises, Engagement, & Impact (EEI)

Principal EEI or EEI-related achievements

- Successfully participated in the International Union of Pure and Applied Chemistry (IUPAC) Global Women's Breakfast 2023 project with a theme of "Breaking Barriers in Science," in collaboration with the Royal Society of Chemistry, UK. Additionally, the event served as the starting point of a mentorship program for secondary school girls and female undergraduate students in STEM, resulting in over 100 female students being mentored and guided towards pursuing careers in STEM fields (<https://stemtal.org/>).
- I have successfully led the development and delivery of innovative CPD “microbiology of sous vide processes”, resulting in over 100 food safety officers in England and Wales being trained.
- I have successfully led the development of microbiology training materials for the Saudi Food & Drugs Authority (SFDA) training and conducted consultancy activities for SFDA food microbiology and food manufacturing (2014-2019).
- Successfully managed a project in collaboration with PH Seven Interim Management Ltd to evaluate the utilization of a portable near-infrared spectrometer to detect and quantify the ice glaze on frozen fish.

Enterprise/Knowledge transfer and exchange - networking/collaboration activities

June - Oct 2017	Project Manager; Research project in collaboration with PH Seven Interim Management Ltd. (07407495). I managed this project at the University of Birmingham and it was focused on the evaluation of a portable near-infrared spectrometer for the detection and quantitation of the ice glaze on frozen fish.
July - August 2014	CUBEL Summer School – Food Safety with the Chinese government
15 th -16 th Oct 2013	Event Organiser; Food Microbiology for Enforcement and Industry, University of Birmingham

Influence and Impact

Currently a Research Associate at Public Policy in Africa Initiative, where I work on promoting evidence-informed policies to help countries in Africa prosper in free, fair, and sustainable economies.

- We produced two publications that are freely available (see 16 & 20 on page 17). Both publications aimed to advise African governments on the impact of COVID-19 and possible policy responses, and were published by the Public Policy in Africa Initiative based in Cameroon.
- Policy recommendations from the two publications were presented for the Rwandan government through the Economic Research Policy Network Rwanda on the 26th October 2021. A second presentation of the same policy recommendations was made at the AgriFood Networks webinar on the 28th of October 2021.
- Lead author of our publication entitled ‘A Pandemic Preparedness Toolkit for The African Governments and Relevant Institutions’ (no. 16, page 17) which was featured in the DevDispatch YouTube channel for the top 5 publications on global development and social impact knowledge.

Widening Participation - schools outreach or public understanding of the discipline

20th July 2023	Volunteer: Creating a Healthy Food City Forum, Birmingham City Council, Birmingham, UK
28th June 2023	Volunteer; Engineering Taster Day, University of Birmingham, UK
8th June 2023	Volunteer; Merck's Curious Cube
14th Sept 2022	Volunteer; Girls in STEM day Workshop,

12 th Nov 2021	Invited Talk & Coaching Session; Shrewsbury School, Shropshire, UK
4 th July – 16 th Nov	Expert Contributor; Africa Food Safety & Quality Pan-African International Summit 2021
2017 - Present	Registered Trainer; UK Chartered Institute of Environmental Health (CIEH) in collaboration with FSA – developed and carried out training on food safety for officers in England and Wales on the microbiology of <i>sous vide</i> processes
2020 - Present	Course Developer and Instructional Designer; Osiri University, Lincoln, Nebraska, USA
2015 - Present	Leader; Module Outside Main Discipline (MOMD), Food Friend or Foe University of Birmingham
2014 - 2019	Course Developer & Instructional Designer; Delivered lectures and produced basic microbiology training materials for the bi-annual Food Hygiene Premises Inspection course for the Saudi Food & Drugs Authority (SFDA) and SFDA Food Microbiology and Food Manufacturing
August - October 2021	Volunteer Trainer & Committee Advisor; Summer Training Intensive Course for Undergraduate Medical Engineering Students, Nabda Society of Medical Engineering, Iraq
August - October 2020	Volunteer Trainer & Committee Advisor; Summer Training Intensive Course for Undergraduate Medical Engineering Students, Nabda Society of Medical Engineering, Iraq

External engagement

2022 - Present	Member; Food Microbiology Working Group, Global Harmonization Initiative
July 2021 - Present	External Examiner; Coventry University, UK
25 th Nov 2021	Keynote Speaker; United Nations International Day for the Elimination of Violence against Women, College of Engineering, Al-Mustansiriya University, Iraq
8 th July – 10 th Aug 2021	Judge; Southeast Asian Agricultural Engineering Student Chapter Annual Regional Convention on advancement of agricultural waste management food engineering, biotechnology, and green technology
2021 - Present	Full Member; Microbiology Society
2021 - Present	Member; International Union of Food Science and Technology
2020 - Present	Member; International Advisory Committee on COVID-19 cases in Iraq in collaboration with Nabda Society of Medical Engineering, Iraq
2019 - Present	Full member; African Food Research Network
2019 - Present	Member; International Society of Female Professionals
2019 - Present	Head of the International Advisory Committee; Nabda Society of Medical Engineering (NGO), Iraq
2018 - Present	Member; International Association of Food Protection (IAFP)
December 2018	Member; International Scientific Committees of the 1st International Conference on Medicine in Engineering, Iraq
2017 - Present	Fellow; Higher Education Academy – Advanced HE
2016 - Present	Member; Women into Science and Engineering (WiSE)

2016 - Present **Advisory member;** Slingstone Business Consulting Ltd

2014 - Present **Full Member;** Society of Applied Microbiology UK

Commercial, entrepreneurial or industrial products, policy publications, evidence synthesis pieces

1. **H. Onyeaka.,** P. Tamasigaa., A.T. Gutaa., M.S. Kalanec., H. Nkoutchou. A Pandemic Preparedness Toolkit for the African Governments and Relevant Institutions. Publisher: *Public Policy in Africa Initiative*, October 2021
2. A comprehensive research report entitled '*The Impact Of Covid-19 Pandemic On Education, Livelihoods And Food Security Status: Policy Implications For Sub-Saharan Africa (SSA)*'.
3. A report entitled '*Preparedness toolkit for African Governments and Relevant Institutions.*' This publication aimed to develop a pandemic toolkit that will enable political actors to make evidence-informed decisions in times of public crisis.

Leadership and Management

- Formal recognition of my leadership potential by the University ADITI programme for aspiring minority ethnic leaders (**a crucial scheme for attaining the University's 2021-2024 EDI objectives to increase the recruitment, progression, and retention of BAME research leaders in the University**).

- Attended the Aurora Leadership Mentoring Programme for **women from underrepresented groups**

Sept 2019 - Present **Programme Director;** MSc Food Safety, Hygiene & Management

Sept 2019 - Present **Admission Tutor;** MSc Food Safety, Hygiene & Management

Sept 2019 - Present **Admission Officer;** MSc Food Safety, Hygiene & Management

2019 - Present **Independent Panel Member;** University of Birmingham, Central Staff Hub (under BAME Network)

2015 - 2019 **Staff Liaison;** Staff and Student Committee, School of Chemical Engineering, University of Birmingham

2015 - 2019 **School Welfare Officer (UG & PG);** promoting inclusivity and providing mentoring to students

2018 - Present **Beacon assessor,** Higher Education Future institute (HEFi), University of Birmingham.

Citizenship

Nov 2021 - Present **Mentor;** Postdoctoral and Early Researcher Career Development and Training PERCAT, College of Engineering and Physical Sciences, University of Birmingham

July 2021 - Present **School Governor;** Cheswick Green School Solihull, UK

2013 - Present **Personal Tutor;** for BSc Chemical Engineering and MSc Food Safety, Hygiene & Management (circa 24 students yearly)

2020 - 2021 **Reverse Mentor;** University of Birmingham, Reverse Mentoring Scheme with University executive board (Mentee: Head of College Steve Jarvis)

Equality, Diversity, & Inclusion

2020 - Present	Member; Self-assessment team on the Athena SWAN Silver Award Application School of Chemical Engineering, University of Birmingham
2019 - Present	Vice-Chair; Equality and Diversity Inclusion (EDI) Committee, School of Chemical Engineering, University of Birmingham
2019 - Present	Co-Chair; E-Connect (Shortening the Attainment Gap), University of Birmingham
2019 - Present	Member; Academic Promotion Working Group, School of Chemical Engineering, University of Birmingham
2017 - 2020	Co-Chair; Self-assessment team on the Athena SWAN Bronze Award Application, School of Chemical, University of Birmingham
2015 - Present	Member; College Equality Groups, School of Engineering, University of Birmingham
2015 - 2019	Founder and Co-Chair; Equality and Diversity Inclusion (EDI) Committee, School of Chemical Engineering, University of Birmingham

Special Invitations

7th July, 2023 Personal Invitation from Professor Adam Tickell, Vice-Chancellor, University of Birmingham

Appendix: Publications & Conferences, Submitted paper and Media

1. Al-Sharif, T.A., Al-Sharif, Z.T., Al-Sharif, N.T., Al-Sharif, M.T., Aalhashem, N.A., Ghosh, S., **Onyeaka, H.** and Ahmadi, S., 2023, July. Flow of nanofluids and its theoretical physics. In *AIP Conference Proceedings* (Vol. 2787, No. 1). AIP Publishing. <https://doi.org/10.1063/5.0150144>
2. Al-Sharif, Z.T., Alshrefy, Z.A., Al-Jarjees, S.D., Al-Moameri, H., Al-Sharif, T.A., Ghosh, S., **Onyeaka, H.** and Khaled, T.T., 2023, July. Using GIS model to investigate sustainable irrigation techniques from wastewater. In *AIP Conference Proceedings* (Vol. 2787, No. 1). AIP Publishing. <https://doi.org/10.1063/5.0150147>
3. Nnaji, N.D., Ughamba, K.T., **Onyeaka, H.**, Anyanwu, C.U., Al-Sharif, Z. and Miri, T., 2023, July. Biostimulatory potentials of plantain skin on soils polluted with used motor oil. In *AIP Conference Proceedings* (Vol. 2787, No. 1). AIP Publishing. <https://doi.org/10.1063/5.0148097>
4. **Onyeaka, H.**; Tamasiga, P.; Nwauzoma, U.M.; Miri, T.; Juliet, U.C.; Nwaiwu, O.; Akinsemolu, A.A. Using Artificial Intelligence to Tackle Food Waste and Enhance the Circular Economy: Maximising Resource Efficiency and Minimising Environmental Impact: A Review. *Sustainability* 2023, 15, 10482. <https://doi.org/10.3390/su151310482>
5. Tchonkouang, R.D.; **Onyeaka, H.**; Miri, T. From Waste to Plate: Exploring the Impact of Food Waste Valorisation on Achieving Zero Hunger. *Sustainability* 2023, 15, 10571. <https://doi.org/10.3390/su151310571>
6. Oladipo, E.K., Oluwasegun, J.A., Oladunni, T.D., Owoeye, V.O., Obisanya, O.I., Olasinde, O.T. and **Onyeaka, H.**, 2023. Immunoinformatics aided design of a peptide-based kit for detecting Escherichia coli O157: H7 from food sources. *Journal of Food Safety*, p.e13073. <https://doi.org/10.1111/jfs.13073>
7. Akegbe, H.; **Onyeaka, H.**; Omotosho, A.D.; Ocholor, C.E.; Njoagwuani, E.I.; Mazi, I.M.; Oladunjoye, I.O.; Nwaiwu, O.; Odeyemi, O.A.; Tamasiga, P. The Need for Nigeria to Embrace the Hygiene Rating Scheme. *Hygiene* 2023, 3, 221-235. <https://doi.org/10.3390/hygiene3020016>

8. Al-Najjar, S.Z., Al-Sharif, Z.T., **Onyeaka, H.**, Miri, T., Oibileke, K. and Anumudu, C.K., 2023. Advances in mass transfer and fluid flows in non-thermal food processing industry—a review. *Food Production, Processing and Nutrition*, 5(1), p.50. <https://doi.org/10.1186/s43014-023-00162-z>
9. **Onyeaka H.** & Chukwugozie D. C. (2023). Closing the Loop: How Circular Economy Approaches Can Tackle Food Waste and Promote Sustainability. *SustainE.* 1(1), 151-162. <https://doi.org/10.55366/suse.v1i1.9>
10. Odeyemi OA, Amin M, Dewi FR, Kasan NA, **Onyeaka H**, Stratev D, Odeyemi OA. Prevalence of Antibiotic-Resistant Seafood-Borne Pathogens in Retail Seafood Sold in Malaysia: A Systematic Review and Meta-Analysis. *Antibiotics*. 2023; 12(5):829. <https://doi.org/10.3390/antibiotics12050829>
11. Tamasiga P, **Onyeaka H**, Akinsemolu A, Bakwena M. The Inter-Relationship between Climate Change, Inequality, Poverty and Food Security in Africa: A Bibliometric Review and Content Analysis Approach. *Sustainability*. 2023; 15(7):5628. <https://doi.org/10.3390/su15075628>
12. **Onyeaka, H.**, Nwaiwu, O., Oibileke, K., Miri, T. and Al-Sharif, Z.T., 2023. Global nutritional challenges of reformulated food: A review. *Food Science & Nutrition*. <https://doi.org/10.1002/fsn3.3286>
13. Njoagwuani, E.I., **Onyeaka, H.**, Mazi, I.M., Akegbe, H., Oladunjoye, I.O., Ochulor, C.E., Omotosho, A.D., Odeyemi, O.A., Nwaiwu, O. and Tamasiga, P., 2023. Food safety in vulnerable populations: A perspective on the challenges and solutions. *The FASEB Journal*, 37(5), p.e22872. <https://doi.org/10.1096/fj.202201713R>
14. Nnaji, N.D., **Onyeaka, H.**, Miri, T. and Ugwa, C., 2023. Bioaccumulation for heavy metal removal: a review. *SN Applied Sciences*, 5(5), p.125. <https://doi.org/10.1007/s42452-023-05351-6>
15. Abdulhussein, Z.A., Al-Sharif, Z.T., Alzurajji, M. and **Onyeaka, H.**, 2023. ENVIRONMENTAL SIGNIFICANCE OF FOULING ON THE CRUDE OIL FLOW. A COMPREHENSIVE REVIEW. *Journal of Engineering and Sustainable Development (JEASD)*, 27(3). <https://doi.org/10.31272/jeasd.27.3.3>
16. Akegbe, H., **Onyeaka, H.**, Mazi, I.M., Olowolafe, O.A., Omotosho, A.D., Oladunjoye, I.O., Tajudeen, Y.A. and Ofeh, A.S., 2023. The Need For Africa To Develop Capacity For Vaccinology As A Means Of Curbing Antimicrobial Resistance. *Vaccine: X*, p.100320. <https://doi.org/10.1016/j.jvacx.2023.100320>
17. Çelen, T., Anumudu, C., Miri, T., **Onyeaka, H.** and Fernandez-Trillo, P., 2023. Nisin: Carboxymethylcellulose polyion complex (PIC) nanoparticles. Preparation and antimicrobial activity. *Carbohydrate Polymers*, p.121032. <https://doi.org/10.1016/j.carbpol.2023.121032>
18. Akinsemolu A, **Onyeaka H**, Fagunwa O, Adenuga AH. Toward a Resilient Future: The Promise of Microbial Bioeconomy. *Sustainability*. 2023; 15(9):7251. <https://doi.org/10.3390/su15097251>
19. Ndukwe J. K., Aduba C.C., Ughamba K.T., Chukwu K.O., Eze C.N., Nwaiwu O., and **Onyeaka H.**, 2023. Diet Diversification and Priming with *Kunu*: An Indigenous Probiotic Cereal-Based Non-Alcoholic Beverage in Nigeria. *Beverages*, 9(1):14. <https://doi.org/10.3390/beverages901001>
20. **Onyeaka, H.**, Mazi, I.M., Oladunjoye, I.O., Njoagwuani, E.I., Akegbe, H., Dolapo, O.A., Nwaiwu, O., Tamasiga, P. and Ochulor, C.E., 2023. IMPACT OF COVID-19 ON FOODBORNE ILLNESS IN AFRICA—A PERSPECTIVE PIECE. *Journal of Infection and Public Health*. <https://doi.org/10.1016/j.jiph.2023.02.018>
21. Ghosh, S., Falyouna, O., **Onyeaka, H.**, Malloum, A., Bornman, C., AlKafaas, S.S., Al-Sharif, Z.T., Ahmadi, S., Dehghani, M.H., Mahvi, A.H. and Nasseri, S., 2023. Recent progress on the remediation of metronidazole antibiotic as emerging contaminant from water environments using sustainable adsorbents: A review. *Journal of Water Process Engineering*, 51, p.103405. <https://doi.org/10.1016/j.jwpe.2022.103405>

22. Eze, C.N., Onyejiaka, C.K., Ihim, S.A., Ayoka, T.O., Aduba, C.C., Nwaiwu, O. and **Onyeaka, H.**, 2023. Bioactive compounds by microalgae and potentials for the management of some human disease conditions. *AIMS Microbiology*, 9(1), pp.55-74. <https://doi.org/10.3934/microbiol.2023004>
23. Umenweke, G., Adesanya, Z., **Onyeaka, H.** and Miri, T., 2023. Modular bio-refinery simulation of *Nesogordonia papaverifera* by fast pyrolysis (FP): a focus on bio-oil enhancement. *Biomass Conversion and Biorefinery*, 13(4), pp.2655-2665. <https://doi.org/10.1007/s13399-021-01430-z>
24. Mazi, I.M., **Onyeaka, H.** and Nnaji, N.D., 2023. Foodborne pathogens in Africa: Understanding *Cronobacter sakazakii*. *Public Health Challenges*, 2(1), p.e53. <https://doi.org/10.1002/puh2.53>
25. **Onyeaka, H.**, Passaretti, P., Miri, T., Hart, A., Favero, C., Anumudu, C.K. and Robbins, P., 2023. Pre-lab video demonstrations to enhance students' laboratory experience in a first-year chemical engineering class. *Biochemistry and Molecular Biology Education*, 51(1), pp.29-38. <https://doi.org/10.1002/bmb.21688>
26. Ghosh, S., Rusyn, I., Dmytruk, O.V., Dmytruk, K.V., **Onyeaka, H.**, Gryzenhout, M. and Gafforov, Y., 2023. Filamentous fungi for sustainable remediation of pharmaceutical compounds, heavy metal and oil hydrocarbons. *Frontiers in Bioengineering and Biotechnology*. <https://doi.org/10.3389/fbioe.2023.1106973m>
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Submitted Papers

1. Onwuka, Q.I., Ekwebelem, O.C., Eze, U.A., Odeyemi, O.A., **Onyeaka, H.**, An Overview of Food Safety Risks in Nigeria: Food Fraud as a Case Study. *Food Security*
2. **Onyeaka, H.**, Paolo, Passaretti., P., Miller-Friedmann, J. Bimodal Teaching in a Pandemic: A Comparative Evaluation of Student Outcome Gains. *Social Sciences*
3. Nnaji, N.D., **Onyeaka, H.**, Taghi Miri, T., Ugwa C., Microbial and Plant Bioaccumulation for Heavy Metal Removal: a Review of Current Opinion. *Environmental Science and Pollution Research*

Media and Correspondence

1. President Tinubu's declaration of state of emergency on food security marks vital step forward, July 2023, *Vanguard* (vanguardngr.com/2023/07/president-tinubus-declaration-of-state-of-emergency-on-food-security-marks-vital-step-forward/)
2. The Crucial Role of Early-Career Researchers in Science Communication and Outreach: Fostering Societal Impact of Science. July 2023, *AESIS Newsletter*
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4. Author Perspectives: Interview with Dr. Helen Onyeaka, May, 2023, Wiley ([Link](#))
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9. The societal impact of research and institutional monitoring strategies, January 2023, *AESIS Newsletter* (<https://mailchi.mp/aesisnet/aesis-newsletter-2023-january-theme>)

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13. How Agricultural Biotechnology Can Help Avert Looming Food Crisis Independent.ng 31st July 2021 (<https://independent.ng/how-agricultural-biotechnology-can-help-avert-looming-food-crisis/>)
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Distance Learning Modules (NON-UOB)

1. Basic food Hygiene and Safety - <https://osiriuniversity.org/courses/basic-food-hygiene-and-safety/>
2. Food Safety and Preservation: <https://osiriuniversity.org/courses/food-safety-and-preservation/>

Books & Book Chapters

1. **Onyeaka, H.**, & Nwabor, O. (2022). Food Preservation and Safety of Natural Products, Elsevier
2. **Onyeaka, H.**, & Hart, A. (2021). Eggshell and Seashells Biomaterials Sorbent for Carbon Dioxide Capture. *Chapters*. in: Syed Abdul Rehman Khan & Zhang Yu (ed.), [Carbon Capture](#), IntechOpen.
3. Soumya Ghosh, **Helen Onyeaka**, Marieka Gryzenhout1, Solange Xavier-Santos, Charné Bornman, KeChrist Obileke, Zainab T. Al-Sharify. Chapter 22: Endophytic Fungi from the Lab to the Factory: Bio-stimulants Recent Developments. “Endophytic Fungi: The Full Story of the Untapped Treasure” **In Press with Elsevier**

Editorial Contributions

1. **Onyeaka, H.**, Akinsemolu A.A., and Miri, T. 2023. Green Microbiology: Advancing Sustainability through Microbial Innovations. *Sustainability*. https://www.mdpi.com/journal/sustainability/special_issues/5IFSNA0PY
2. Miri, T., and **Onyeaka, H.**, 2023. Towards Sustainable Food Systems: Exploring Household Food Waste by Photographic Diary in Relation to Unprocessed, Processed and Ultra-Processed Food. *Sustainability*. <https://doi.org/10.3390/su15032051>
3. Iqbal, M. W., **Onyeaka, H.**, Khan, I. M. and Cheng, G., 2023. Biochemical Production of Microbial Enzymes for the Synthesis of Rare Sugars and Their Application in Industries and Bioengineering. *Frontiers in Chemical Engineering*. <https://www.frontiersin.org/research-topics/47938/biochemical-production-of-microbial-enzymes-for-the-synthesis-of-rare-sugars-and-their-application-in-industries-and-bioengineering>
4. Nwaiwu, O. and **Onyeaka, H.**, 2023. Advances in Beverages, Food, Yeast and Brewing Research 2.0. *Fermentation*. https://www.mdpi.com/journal/fermentation/special_issues/yeast_brew2
5. Nwabor, O. **Onyeaka, H.**, Olatunde, O. and Mitsuwan, W., 2022. Microbial Biofilm in the Food System: Consequences and Impacts. *Frontiers in Food Science and Technology* <https://www.frontiersin.org/research-topics/37979/microbial-biofilm-in-the-food-system-consequences-and-impacts>
6. **Onyeaka, H.** and Uro-Chukwu, H. Obesity and Nutrition in the Most Remote Parts of Africa. *Frontiers in Public Health*. <https://www.frontiersin.org/research-topics/38128/obesity-and-nutrition-in-the-most-remote-parts-of-africa>

List of Conferences

- 1) Listeria: legislation, the law and food practices, Royal Society of Public Health, Fountain Court Steelhouse Lane, Birmingham, UK, 7th June, 2023.
- 2) International Conference On Advanced Food Technology & Nutrition (ICAFTN) 21–22 Sept. 2023, Paris, France.
- 3) The HEFI 2023 Teaching and Learning Conference; Educational Gain: Beyond the Metrics University of Birmingham, Birmingham, UK, 11th May, 2023
- 4) IUPAC Global Women's Breakfast (GWB) 2023 & Royal Society of Chemistry inclusion and diversity, University of Ibadan, Nigeria, 14 February, 2023
- 5) 2nd International Conference on Scientific Research and Innovation (2ICSRI 2023) 16-17 March 2022, Cincinnati, Ohio, USA
- 6) 2nd International Conference on Engineering and Advanced Technology (ICEAT 2022), Istanbul, Turkey, 28-29 March 2022
- 7) The Importance of Scholarship Experience to Serve the Community. Mustansiriyah University, Baghdad, Iraq, 2022.
- 8) The 5th scientific engineering and first on International studies engineering conference, Mustansiriyah University, Baghdad, Iraq, April 2022
- 9) 5th International Conference on Materials Engineering and Science (IConMEAS 2022), Istanbul, Turkey, 22-23 August 2022
- 10) The 4th International Conference on Materials Engineering & Science (IConMEAS 2021), University of Duhok, Kurdistan, Iraq, October 06-07, 2021

Conference Presentations and Abstracts

- 1) Ugwa, C., Nnaji, N.D., Miri, T., **Onyeaka, H.** and Al-Sharify, Z.T., 2022, November. Advances in groundwater pollution by heavy metal. In *AIP Conference Proceedings* (Vol. 2660, No. 1, p. 020117). AIP Publishing LLC.
- 1) Aalhashem, N.A., Naser, Z.A., Al-Sharify, T.A., Al-Sharify, Z.T., Al-sharify, M.T., Al-Hamd, R.K.S. and **Onyeaka, H.**, 2022, November. Environmental impact of using geothermal clean energy (heating and cooling systems) in economic sustainable modern buildings architecture design in Iraq: A review. In *AIP Conference Proceedings* (Vol. 2660, No. 1, p. 020119). AIP Publishing LLC.
- 2) Al-Sharify, Z.T., Jaaf, H.J.M.A., Naser, Z.A.R., Alshrefy, Z.A.I., Al-Sharify, N.T., Al-Sharify, T.A., Ghosh, S., **Onyeaka, H.** and Miri, T., 2022, November. Validating sustainable water resources and fluid flow by studying phosphorus concentration of Tigris River water in Baghdad. In *AIP Conference Proceedings* (Vol. 2660, No. 1, p. 020127). AIP Publishing LLC.
- 1) Al-Sharify, Z., Al Jaaf, H., Naser Z., Alshrefy, Z., Al-Sharify, N., Al-Sharify, T., Ghosh, S., **Onyeaka, H.**, Miri T., 2021. Validating Sustainable Water Resources and Fluid Flow by Studying Phosphorus Concentration of Tigris River Water in Baghdad. 4th International Conference on Materials Engineering and science (IConMEAS), University of Duhok, Duhok – Kurdistan, Iraq, 6-7 October
- 2) Aalhashem, N., Naser, Z., Al-Sharify, T., Al-Sharify, Z., Al-sharify, M., Al-Hamd, R., **Onyeaka, H.**, 2021. Environmental impact of using geothermal clean energy (heating and cooling systems) in Economic Sustainable modern buildings architecture design in Iraq: A review. 4th International

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- 3) Al-Sharify, N., Hussein, H., Ahmed, S., Al-Sharify, T., Al-Sharify, Z., **Onyeaka, H.**, Naser, Z., Miri, T., Ghosh, S., 2021. Polymer Modelling for Chemical and Biomedical Purposes, 4th International Conference on Materials Engineering and science (IConMEAS), University of Duhok, Duhok – Kurdistan, Iraq, 6-7 October
- 4) Chinenye Ugwa; Nnabuze Darlington Nnaji; Taghi Miri, **Helen Onyeaka**; Zainab T. AlSharify, “Advances in groundwater pollution by heavy metal”, 4th International Conference on Materials Engineering and science (IConMEAS), University of Duhok, Duhok – Kurdistan, Iraq, 6-7 October
- 5) **H Onyeaka**, CJ Hewitt, AW Nienow (2004) *Further Studies Related to the Scale-up of High Cell Density Recombinant E. coli Fed-Batch Fermentations* in 5th European Symposium on Biochemical Engineering .Science, Stuttgart, Germany Sept 2004, Stuttgart, Germany, Inst. Biochem. Eng, 122. <https://doi.org/10.1002/bit.10805>

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