**DANIEL ONYEDIKACHI UGWU**

BSc (EBSU), MSc and PhD (Nig)

Department of Medical Biochemistry, Faculty of Basic Medical Sciences, David Umahi Federal University of Health Sciences, Uburu, Ebonyi State, Nigeria.

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**Research Interest**

* Climate change mitigation and adaptation, environmental science-policy research, natural resource management and ecotoxicology

**Education**

1. – 2018 University of Nigeria Nsukka, Nigeria

* **Doctor of Philosophy** in Environmental Biochemistry
* **Graduated** with distinction (5.00 0f 5.00)
* **Thesis title:** Effects of Palm Oil Mill Effluent on Soil Productivity in Inyi Community of Enugu State, Nigeria.

2010 – 2013 University of Nigeria, Nsukka, Nigeria

* + - * **Master of Science** in Industrial Biochemistry and Biotechnology
      * **Graduated** with CGPA: 4.33 of 5.00

2004 – 2008 Ebonyi State University, Abakaliki, Nigeria

* **Bachelor of Sciences** in Biochemistry
* **Graduated** with Second Class Upper Division (CGPA 4.2 of 5.00)

**Professional Experience**

2023 – date **Lecturer I**

Department of Medical Biochemistry, Faculty of Basic Medical Sciences, David Umahi Federal University of Health Sciences, Uburu, Ebonyi State, Nigeria.

2011 – 2022 **Lecturer I**

Department of Science Laboratory Technology, Federal College of Agriculture, Ishiagu

Ebonyi State, Nigeria.

2020- 2022 **Head of Department**

Department of Science Laboratory Technology, Federal College of Agriculture, Ishiagu

Ebonyi State, Nigeria.

**Publications**

**Journal Articles**

**Ugwu, D.O**., Njoku O.U., JoshuaP.E and Obalum S.E (**undergoing peer review**). Aging-associated biodegradation of toxins in palm oil-mill effluent enhances its biofertilizer value and the desired agronomic effects in low-fertility soils. *International Journal of Recycling Organic Waste in Agriculture*

### Okeke, E.S., Ugwu, D.O., Chen, Y., Mao, G., Wu, X (undergoing peer review). Hazardous Pesticides Banned in Europe Thrives in Nigeria: An Urgent Call for Government Intervention.

**Ugwu, D.O**., Jiwuba, P.C., Ubogu, V.R., and Akazue, R.C. (2020). Phytochemical properties of Hibiscus sabdariffa calyx and the effects of its aqueous extract supplementation on haematological and serum biochemical indices of broiler birds. *Nigerian J. Anim. Sci.*, 22(3): 165 – 172.

Jiwuba, P.C., **Ugwu, D.O**., Azodo, N.L. and Ilo, S.U (2020). Nutrition-reproduction interaction in poultry. *Zhivotnovadni Nauki*, **57**(5): 12-24.

Oko, A.O and **Ugwu, D.O.** (2019). Effect of *Vernoniaamygdalina* (bitter leaf) Extract on the Carbohydrate and Amylose Content of the Faeces of Albino Rats. *International Journal of Biology, Pharmacy and Allied Sciences*, 8(8): 1587 – 1595.

Oko, A.O., **Ugwu, D.O.,** Eluu, S.C., Oko, E.E et al. (2019). Comparative studies on the bioethanol yields of three agricultural wastes. World Applied Sciences Journal, 37(6): 453-457.

Oko, A.O., Eluu, S.C., **Ugwu, D.O.**, Okoye, E.D. et al. (2019). Amino acid analysis of three imported fish species consumed in Abakaliki Nigeria. Middle East Journal of Scientific Research, 27(5): 371-378.

Oko, A.O and **Ugwu, D.O.** (2013). Assessment of Heavy Metal Contents of *Clariasgarrepinus* and their Water Sources Consumed in Abakaliki. *International Science Press*, 4(2): 96-99.

Jiwuba, P.C., Ikwunze, K., Dauda, E. and **Ugwu, D.O** (2016). Haematological and Serum Biochemical Indices of Growing Rabbits Fed Diets Containing Varying Levels of MoringaOleifera Leaf Meal*. British Biotechnology Journal*, 15(2): 1-7.

Jiwuba, P.C., **Ugwu, D.O.,** Kadurumba, O.E., and Dauda, E. (2016). Haematological and Serum Biochemical Indices of Weaner Rabbits Fed Varying Levels of Dried Gmelinaarborea Leaf Meal. *International Blood Research and Reviews*, 6(2): 1-8.

**Conference Proceedings and Book of Abstracts:**

**Ugwu D.O.** (2023).Indigenous and local knowledge and practices in pesticide plants use across Sub-Saharan Africa. 7th Adaptation Futures 2023 Conference, October 2-6 at the Palais des congrès in Montreal, Quebec, Canada.

**Ugwu, D.O** and Eze, S.O.O (2019). Optimization of Hydrolysis of Cassava (*Manihotesculenta*) Starch by Malted Acha (*Digiteriaexilis*) for Bioethanol Production. *Book of Abstracts*, 11th Southeast Zonal Symposium & Scientific Conference of Nigerian Society of Biochemistry and Molecular Biology, Imo State University, Owerri, Nigeria. 30th August, 2019.

**Ugwu, D.O.,** Dauda, E., Akazue, R.C. and Ubogu, V.R. (2019).Effect of *Tetrapleuratetraptera* on Haematological Parameters in Finisher Broiler Birds. *Proceedings*, 8th Joint Annual Meeting of Animal Science Association of Nigeria, International Conference Centre, Umuahia, Nigeria. 8th – 12th September, 2019.

**Ugwu, D.O.**, Dauda, E., Akazue, R.C. and Ubogu, V.R. (2019). Effect of *Hibiscus sabdariffa* Calyx Aqueous Extract Supplementation on Serum Biochemical Indices of Finisher Broiler Birds. *Proceedings*, 8th Joint Annual Meeting of Animal Science Association of Nigeria, International Conference Centre, Umuahia, Nigeria. 8th – 12th September, 2019.

**Ugwu, D.O**., Njoku, O.U and Joshua, P.E. (2018). Effect of aging on the toxicity of palm oil mill effluent and soil fertility indices. *Book of Abstracts*, 2nd SETAC Central/West Africa Regional Conference, University of Ghana Accra. 7th – 11th October 2018.

Jiwuba, P.C., **Ugwu, D.O**., Onyekwere, M.U., Ogbuewu, P.I., Okechukwu, S.O. and Olabode, A.D. (2016). Haematological Response of Weaner Rabbits Fed Dietary Levels of Gmelina Arborea Leaf Meal. Proceedings, 41st Conference of Nigerian Society for Animal Production, Federal University of Agriculture, Abeokuta, Ogun State, Nigeria. 20-24 March 2016.

Jiwuba, P.C., Okechukwu, S.O., Onyekwere, M.U., Olabode, A.D., **Ugwu, D.O**., Ogbuewu, P.I and Ahamefula, F.O. (2016). Performance of West African Dwarf (WAD) Goats Fed Moringa Oleifera Leaf Meal. Proceedings, 41st Conference of Nigerian Society for Animal Production, Federal University of Agriculture, Abeokuta, Ogun State, Nigeria. 20-24 March 2016.

**Ugwu, D.O.** and Oko, A.O. (2012). Assessment of Heavy Metal Contents of *Clariasgarrepinus* and their Water Sources Consumed in Abakaliki. *Book of Abstracts*, South-East Zonal Scientific Conference of Nigeria Society of Biochemistry and Molecular Biology held at Ebonyi State University, Abakaliki, Nigeria. 22nd to 24th August 2012.

**Policy Papers:**

Adewumi, I.J., **Ugwu, D.O**., & Madurga-Lopez, I. (2022). Integration of ocean-based adaptation and mitigation actions into regional and national climate policies in Africa. Archibald, S.A., Pereira, L.M., Coetzer, K.L., editors. Future Ecosystems for Africa (FEFA), University of the Witwatersrand: Johannesburg, 157pp. <https://futureecosystemsafrica.org/reports/Ocean-Evidence-Base.pdf>

**Ugwu, D.O.** (2020). Threat to Fisheries in the Gulf of Guinea. An advocacy policy brief developed for and published by Health of Mother Earth Foundation (HOMEF), 20pp  ((<https://homef.org/wp-content/uploads/2019/12/Threat-to-Fisheries-policy-Brief.pdf>

**Ugwu, D.O.** (2020). Need to Establish Freshwater and Marine Protected Areas in Nigeria. An advocacy policy brief developed for Health of Mother Earth Foundation (HOMEF). 20pp.<https://homef.org/2020/06/07/the-need-to-establish-fresh-water-and-marine-protected-areas-in-nigeria-policy-paper/>

Onuoha, C.O., Fatima M.F., **Ugwu, D.O.** and Ani A.N. (2020). Implications of COVID-19 on Nigeria’s Economy, a policy document developed for Connected Development (CODE), 22pp.<https://www.connecteddevelopment.org/wp-content/uploads/2020/05/Economic-Implications-of-COVID-19-on-the-Nigerias-Economy.pdf>

**Op-eds**

* [Will COP27 in Egypt Bring About Climate Justice?](https://panafricanreview.rw/will-cop27-in-egypt-bring-about-climate-justice/)
* [Climate Change, Exploitation and Poverty in Nigeria](https://homef.org/2020/07/01/eco-instigator-28/)
* [Transforming Nigeria's agricultural sector: The way forward](https://dailytrust.com/transforming-nigerias-agricultural-sector-the-way-forward)
* [What are the security implications of Starlink expansion for Africa?](https://panafricanreview.rw/what-are-the-security-implications-of-starlink-expansion-for-africa/)
* [Fixing Nigeria’s Democracy](https://panafricanreview.rw/fixing-nigerias-democracy/)
* [The Solution to Nigeria’s Ethno-religious  Violence Lies in its Traditional Value Systems](https://panafricanreview.rw/the-solution-to-nigerias-ethno-religious-violence-lies-in-its-traditional-value-systems%EF%BF%BC/)
* [Allow Nigerian Diaspora Community to Vote](https://panafricanreview.rw/allow-nigerian-diaspora-community-to-vote/)
* If prominent Africans seeking Visas to travel to Europe keep getting humiliated at Western Embassies, we can only imagine what happens to the ordinary folk
* [Nigeria’s elections and the need for Africa to rethink its definition and practice of democracy](https://panafricanreview.rw/nigerias-elections-and-the-need-for-africa-to-rethink-its-definition-and-practice-of-democracy/)
* [Peace accords in Nigeria’s elections, a testament to the resounding failure of multiparty democracy](https://panafricanreview.rw/peace-accords-in-nigerias-elections-a-testament-to-the-resounding-failure-of-multiparty-democracy/)
* Will food donations from war-torn Ukraine be a wakeup call for Africa?
* [Eradicating Poverty in Nigeria: Taking a cue from China](https://panafricanreview.rw/eradicating-poverty-in-nigeria-taking-a-cue-from-china/)
* [Nigeria Bans Doctors From Moving Abroad; But What can it Learn from Cuba](https://panafricanreview.rw/nigeria-bans-doctors-from-moving-abroad-but-what-can-it-learn-from-cuba/)

**Fully Funded Summits and Workshops Attended**

2023 Sustainability Research and Innovation Congress (SRI2023) AfricaSatellite event in-person, held at Nelson Mandela University in Gqeberha (Port Elizabeth), South Africa, 20-22 June 2023.

2022 National Experts Consultation Workshop on the CBD Post-2020 Global Biodiversity Framework- Feb 24 -25 2022 organized by the Nigerian Conservation Foundation in collaboration with Nigeria’s Federal Ministry of Environment, at Reiz Continental Hotel, Abuja (fully funded).

2021 Panelist in a Stakeholder Dialogue and Launching of Survey Report on Pesticide Regulation and Use in Nigeria organized by Trade Network Initiative, Alliance for Action on Pesticide in Nigeria and the Heinrich Boll Foundation, Abuja. 25th November, 2021(fully funded)

2017Association of Commonwealth Universities Summer School, Bath Spa University, UK, with the theme “Creating Greener Narratives through Environmental Arts and Humanities”, 5 -13 August 2017 (Fully Funded).

2019 Southeast Regional Youth Climate Innovation Boot Camp Programme by Nigeria’s Federal Ministry of Environment and United Nations Development Program (UNDP) held in Owerri, Nigeria, 4–7 November 2019. (Fully funded)

2019 1st Regional Youth Climate Change Incubation Hub organized by Nigeria Federal Ministry of Environment and United Nations Development Program (UNDP) held in Owerri, Nigeria, 27 – 28 August 2019 (Fully Funded).

2017 Stakeholders meeting of Environment based NGO’s and CSOs with the Nigeria Honorable

Minister of State for Environment, 25 May 2017, (Fully Funded).

2016 10th National Council on Environment by the Federal Ministry of Environment held in Lafia, Nasarawa State, 14 – 19 August 2016 (Fully Funded).

**Partially Funded Summits Invited**

2022 Accredited as part of Nigeria’s expert delegation to participate in the Fifteenth meeting of the Conference of the Parties to the Convention on Biological Diversity (COP 15) in Montreal, Canada from the 7th – 19th December 2022 (Partially Funded)

2022 Coastal Ocean Environment Summer School in Nigeria. August1 – 5, 2022 at the University of

Lagos, Nigeria (Partially Funded)

2019 3rd International Youth Summit, Lahore 2019 by the Center for Sustainability Research and Practice (CSRP), The University of Lahore, Pakistan. 2nd–8 December 2019 (Partially funded).

**Keynote Speech & Invited Talks**

2023 Speaker at the the 2023 Sustainability Research and Innovation Congress (SRI2023) Africa

Satellite event in-person, held at Nelson Mandela University in Gqeberha (Port

Elizabeth), South Africa on **20-22 June 2023**.

Topic: *Indigenous and Local Knowledge in Climate Change Adaptation by Local Farmers in*

*Africa*

2023 Speaker at the International Visitor’s Leadership Programme (IVLP) Impact Award Workshop

Organized by the Center for Climate Change and Development, Alex Ekwueme Federal

University, Ikwo, Nigeria on the 15 – 16 August 2023.

Topic*: Understamding the Link Betwwen Climate Change and Air Pollution*

2021 Guest Speaker at the “Health of Mother Earth Foundation” (HOMEF) 2021 Volunteer

Convergence and Earth Day event held on the 22nd of April 2021.

Topic: “*Restoring the Earth through Agroecology*”

2021 Guest Speaker at the “Climate Wednesday” Series of “International Climate Change

Development Initiative” on the topic “*Food Sovereignty: A strategy for Climate Justice*

On the 11th of August, 2021.

2021 Guest Speaker at the “Climate Friday” Series of “Break Free From Plastic Initiative” on

The topic “*Understanding Climate Change and Taking Climate Action*” on the 5th of

March, 2021.

[2020](https://twitter.com/ONEinAfrica/status/1317135392009867265 2020) Guest lecturer on the topic *Climate Change and Climate Action Ideas* at Plogging Nigeria Green Switch Academy Lecture Series held on 8 December 2020.

2020 Keynote speaker and paper presentation on the “*Nexus between Sustainable*

*Agriculture and Environment: Matters Arising in Enugu State*” organized by the

Faculty of Environmental Sciences, Enugu State University of Science and

Technology, ESUT on the 11th of March 2020 at ESUT Auditorium, Agbani,

Enugu State, Nigeria.

**Scholarships, Grants and Bursaries**

2023 Connectivity Grant to participate in the 7th Adaptation Futures 2023 Conference,

October 2-6 at the Palais des congrès in Montreal, Quebec, Canada. <https://adaptationfutures.com/fr/>

2023 Full Scholarship to participate at the the 2023 Sustainability Research and Innovation Congress

(SRI2023) Africa Satellite event in-person, which will be held at Nelson Mandela University in

Gqeberha (Port Elizabeth), South Africa on 20-22 June 2023. <https://sricongress.org/sri2023-africa-satellite-event/>

2022 Full Scholarship to participate in the Climate Governance, Diplomacy and Negotiations Leadership Program - Cohort X organized by African Group of Negotiators Expert Support (AGNES) <https://agnesafrica.org/>

2022 Sustainability Research & Innovation Congress 2022 held South Africa between June 20 – 24,

2022 (Scholarship for online participation)

2017 Full Bursary, Association of Commonwealth Universities Summer School, Bath Spa University, UK, 5th to 13th August 2017.*(*<https://www.acu.ac.uk/events/...summer-school/commonwealth-summer-school-2017>).

2016 5, 000 Euro PhD thesis Grant by West African Science Service Centre on Climate

Change and Adapted Land Use (WASCAL) <https://www.wascal.org>

**Professional Fellowship and Training**

2023 – 2024 Commonwealth Futures Climate Research Cohort Fellowship by the Association of Commonwealth Universities (ACU)

2022 -2023 Fellow of the Climate Governance, Diplomacy and Negotiations Leadership Program - Cohort X organized by African Group of Negotiators Expert Support (AGNES)

2017 Certificate in Introduction to Stata (data analysis) by ‘FEED THE FUTURE’, a US Government’s Global Hunger and Food Security Initiative.

**Public Engagement, Volunteering and Community Service**

2023- date Expert Member at UNESCO Inclusive Policy Lab (<https://en.unesco.org/inclusivepolicylab/> )

2023 - date General member of Future Earth Forum for Early Career Researchers

2022 - date Member of the National Expert Working Group on Convention on Biological Diversity Post 2020 Global Biodiversity Framework (CBD COP) for Nigeria who helped to strengthen Nigeria/Africa position ahead of both the OEWG-3, OEWG-4 meetings and COP 15 held in Canada.

2019 – date Southeast Focal person and Lead for FollowTheMoney and Connected Development (CODE) where I have overseen the implementation of several donor funded projects targeted at improving public service delivery by empowering citizens with information and capacity to track the implementation of government budgets and funds and holding subnational governments in the southeast states of Nigeria accountable ([www.connecteddevelopment.org](http://www.connecteddevelopment.org) and [www.followthemoney.org](http://www.followthemoney.org) ).

2019 – date Founder and Chairperson of Green Environment Network (GRENE), Nigeria. A CBO based in Nigeria which is focused on promoting grassroots citizens led climate action in Nigeria ([www.twitter.com/GREN\_042](http://www.twitter.com/GREN_042)).

2021 – date Member of Nigerian National Platform on Biodiversity and Ecosystem Services

2021 – date Member of the Alliance for Action on Pesticides in Nigeria

2020 – date Member of National Youth Advcacy for Bees and Pollinators

2020 - date ONE Champion for the ONE Campaign in Nigeria for 2020 cohort working towards eradicating poverty and preventable diseases in Nigeria by 2030 ([www.one.org](http://www.one.org))

2020 – date Leading Member of Nigeria Youth Advocacy Network for Bees and Pollinators

2019 – date Volunteer with health of Mother Earth Foundation (HOMEF) where I have participated and helped to organize progams and campaigns on Climate Justice, Improving Nigeria’s Food Systems and School of Ecology ([www.homef.org](http://www.homef.org))

**Membership of Professional Body**

Nigerian Society of Biochemistry and Molecular Biology

**Core Competences and Skills**

Proficient in all communicative skills of the English language, research, report writing, stakeholders and community engagement, policy research and influencing, public speaking, teaching, project management, problem, solving, critical thinking, emotional intelligence, leadership and social influence.

**Referees**

1. **Prof. Chigozie J. Uneke**, Vice Chancellor, David Umahi Federal University of Medical Sciences, Uburu, Ebonyi State, Nigeria. [unekecj@yahoo.com**|**](mailto:unekecj@yahoo.com|)Phone: 08038928597
2. **Prof. Chioma Anosike,** Profesor, Department of Biochemistry, University of Nigeria | Email: [chioma.anosike@unn.edu.ng](mailto:chioma.anosike@unn.edu.ng) | Phone: +234 (0) 8037785462
3. **Hamzat B. Lawal**, CEO Connected Development (CODE), Abuja Nigeria. | Email:[hamzy@connecteddevelopment.org |](mailto:hamzy@connecteddevelopment.org%20|) Phone: +234 (0) 8068699956