

ODOR EMMANUEL IKONG

Analytical & Quality Scientist / Environmental Toxicologist / Trace Contaminant & Risk Analyst

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PROFESSIONAL SUMMARY

Analytically-trained scientist with an M.Sc. (Distinction) in Environmental Biology and Toxicology from the University of Medical Sciences (UNIMED), Ondo, and a B.Sc. in Zoology and Environmental Biology from the University of Calabar. Skilled in trace-level contaminant analysis (ICP-MS), spectroscopic material characterisation (ATR-FTIR), and probabilistic risk assessment (Monte Carlo simulation), with hands-on experience applying validated analytical and quality-control procedures to produce data fit for regulatory and peer-reviewed scrutiny. Author of a manuscript under review at a Q1 Elsevier journal (Environmental Pollution). Seeking to apply rigorous analytical method execution, quality control discipline, and contaminant/impurity risk evaluation skills to a Quality Control, Quality Assurance, or Regulatory Compliance role within pharmaceutical manufacturing.

CORE COMPETENCIES

- Trace-level instrumental analysis: ICP-MS (heavy metals/elemental impurities), ATR-FTIR spectroscopy
- Quality control & standard reference procedures; method validation mindset; GLP-aligned documentation
- Probabilistic risk assessment: Monte Carlo simulation, hazard quotient, exposure/dose modelling
- Statistical analysis: SPSS, Microsoft Excel; data integrity and structured record-keeping
- Regulatory-grade scientific writing, technical reporting, and literature/SOP review
- Laboratory safety, sample chain-of-custody, and compliance documentation

RELEVANT LABORATORY & RESEARCH EXPERIENCE

Postgraduate Research Scientist — University of Medical Sciences (UNIMED), Ondo 2022 – 2024

Assessment of Microplastics and Heavy Metal Contamination in Settled Dust, Southwestern Nigeria

- Executed standardised environmental sampling and sample-preparation protocols across multiple field sites, maintaining documentation suitable for downstream quality review.
- Ran ICP-MS analysis to quantify trace heavy metals (Pb, Cd, Cr, Ni, Cu, Zn) against certified reference materials, applying calibration and quality-control checks consistent with GLP principles.
- Used ATR-FTIR spectroscopy and microscopy for material/polymer characterisation, generating reproducible, audit-ready analytical data.
- Built probabilistic exposure and risk models (Monte Carlo simulation, hazard quotient, cancer risk estimation) directly transferable to impurity, contaminant, or exposure risk evaluation in a regulated manufacturing setting.
- Authored a full manuscript currently under peer review at Environmental Pollution demonstrating the ability to produce regulator-grade scientific documentation.

PhD Researcher (In Progress) — Environmental Toxicology, UNIMED 2026–2029

Researching cadmium/lead bioavailability and transfer via *Amaranthus* spp., extending contaminant risk-assessment expertise relevant to heavy-metal and elemental-impurity control in pharmaceutical raw materials and finished products. Supervisor: Dr. P.G. Ayeku, HoD, Biosciences & Biotechnology.

Undergraduate Research — University of Calabar, Cross River State 2014 – 2018

Completed a supervised B.Sc. research project in Zoology and Environmental Biology, building foundational skills in study design, data collection, and scientific reporting.

PROFESSIONAL EXPERIENCE

Security & Compliance Officer (Non-Academic Staff) — UNIMED, Ondo 2022– Present

- Manage incident reporting, documentation, and compliance processes across a 5,000+ person institutional community directly applicable to GMP documentation discipline and audit readiness.
- Maintain accurate, structured records under institutional access-control and safety protocols.

Customer Care Representative — Bet9ja, Nigeria 2019

Provided first-line, multi-channel customer support; maintained interaction logs and supported compliance and reporting procedures.

EDUCATION

M.Sc. Environmental Biology & Toxicology — Distinction 2023– 2025

University of Medical Sciences (UNIMED), Ondo State, Nigeria

B.Sc. Zoology and Environmental Biology 2014 – 2018

University of Calabar, Cross River State, Nigeria

PhD, Environmental Toxicology (In Progress) 2024 – Present

University of Medical Sciences (UNIMED). Supervisor: Dr. P.G. Ayeku, HoD, Biosciences & Biotechnology

PUBLICATIONS

Ikong, O.E. *et al.* Assessment of Microplastics in Settled Dust of Selected Southwestern States of Nigeria. Environmental Pollution. Under peer review.

PROFESSIONAL MEMBERSHIPS & ADDITIONAL SKILLS

- Society of Environmental Toxicology and Chemistry (SETAC) — Member, Microplastics Interest Group
- Digital proficiency: Microsoft Office Suite, SPSS, VOSviewer, Scopus, Web of Science
- Languages: English (fluent); Yoruba (conversational); Bekwarra/Ubang (native)

REFERENCES

Available upon request. Academic referee: Dr. P.G. Ayeku, HoD, Biosciences & Biotechnology, UNIMED.