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Biography

Declan Ikechukwu Emegano had a Bachelor of Medical Laboratory Science (BMLS) from Imo State University, Owerri Nigeria. He was inducted and took the oath of the Medical Laboratory profession in 2012 (RA/MLS 16611). As a Medical Laboratory Scientist, specializing in chemical pathology, he has very strong expertise in the assay of reproductive hormones including prolactin, testosterone, estradiol, follicle-stimulating hormones (FSH), Luteinizing hormone (LH), and Progesterone; diabetes monitoring and management assay such as glycated hemoglobin, C-peptide, ketone, etc; Liver function panel including Alpha-fetoprotein (AFP), and Ceruloplasmin; Cardiac makers such as C-reactive Protein (CRP), BNP (B-type Natriuretic Peptide), and NT-proBNP, and Creatine Kinase-MB (CK-MB); other assays like cortisol, viral load, vitamin C, Immunoglobulins(GMADE) using a sophisticated automatic analyzer including COBAS E411, Ortho Clinical Diagnostics VITROS, Mindray CL-2000i, Rayto Chemray 120, Auto Chemistry Analyzer LACA-A40, COBAS C111 for electrolytes, urea and creatinine (E/U/Cr), lipid profile to mention but a few. Declan has a strong passion and also strives well in other aspects of medical laboratory diagnoses including Microbiology, Histology using Myr automatic tissue analyzer, and Hematology by using Sysmex 5 parts differential counts for a complete blood count.

He participated actively in several projects during his BMLS such as the evaluation of disinfectant efficacy used in Owerri metropolis, Nigeria, hypertensive disease in pregnancy(HDP), and exchange blood transfusion in neonates. During his MSc in Biomedical Engineering in 2022 at Near East University (NEU) Turkish Republic of North Cyprus (TRNC), he worked at the Operational Research Centre in Health NEU, as a research assistant. Some of his accomplishments are writing and publishing multiple peer-reviewed articles about the application of biomedical engineering to medical diagnosis, and giving presentations at international conferences on Biomedical laboratory science and biomedical engineering. All can be assessed in his Google Scholar.

Meanwhile, Declan has many certificates and training to his attestation including February 2023 Waste Management Session Rethinking Laboratory Waste Management in Members Countries by African Society For Laboratory Medicine (ASLM), LabCoP ECHO Session - Quality Management System (QMS) Part 2 by ASLM, The Revised and New ISO 15189:2022 Standard Part 2 by ASLM, Six Sigma: Green Belt, Good Clinical Practice by NIDA Clinical Trials Network and Data Analytics by datalem.com. Also, he had the Training of District Health Professionals on the Integrated Disease Surveillance and Response (IDSR) 3rd Edition; Strengthening of the IDSR vCOP to Support the IDSR Programs in all 47 WHO AFRO Countries by WHO, Medical Laboratory Quality Management System (ISO 15189) and many others.

It is quite inspiring that Declan's commitment to his community is indeed deeply admired. His contributions to the profession are substantial and motivating, and his passion and knowledge are genuinely remarkable. The lives of individuals across the globe are being profoundly impacted by his genuine dedication.

ACADEMIC CURRICULUM VITAE

1. Name - Surname: Emegano Declan Ikechukwu

2. Title: Mr

3. Educational Background:

Degree	Department/Program	University	Year
Bachelor's	Medical Laboratory Science	Imo State University (IMSU) Owerri	2010
Master's	Biomedical Engineering	Near East University TRNC	2022
PhD	Biomedical Engineering	Near East University	2024

4. Master's / PhD Thesis

4.1. Master's Thesis Title and Thesis Advisor(s): EVALUATION OF CARCINOID TUMOR TREATMENT OPTIONS USING MULTI-CRITERIA DECISION MAKING (MCDM). Prof Dr. Dilber Uzun ÖZŞAHIN

4.2. PhD Thesis /Medical Specialty Thesis Title and Advisor(s): The Integration of the PSA Dataset, Histology Images, and Clinical Data using AI for the Multi-Modal prediction of prostate cancer. Prof Dr. Dilber Uzun ÖZŞAHIN

5. Academic Titles:

Date of Assistant Professorship: NA

Date of Associate Professorship: NA

Date of Professorship: NA

6. Supervised Master's and PhD Theses:

6.1. Master's Theses: NA

6.2. PhD Theses: NA

7. Publications

7.1. Articles Published in International Peer-Reviewed Journals (SCI, SSCI, AHCI, ESCI, Scopus)

The Systematic Review of Artificial Intelligence Applications in Breast Cancer Diagnosis. D Uzun Ozsahin, D Ikechukwu Emegano, B Uzun, I Ozsahin. *Diagnostics* 13 (1), 45

Clinical Modelling of RVHF Using Pre-Operative Variables: A Direct and Inverse Feature Extraction Technique. D Uzun Ozsahin, O Balcioglu, AG Usman, D Ikechukwu Emegano. *Diagnostics* 12 (12), 3061

7.2. Articles Published in Other International Peer-Reviewed Journals

7.3. Papers Presented at International Scientific Conferences and Published in Conference Proceedings

Comparative evaluation of blood conservation techniques in cardiovascular surgery using multicriteria decision-making methods. O Balcioglu, DI Emegano, B Uzun, T Şahin, I Ozsahin, DU Ozsahin. *2023 Advances in Science and Engineering Technology International*

7.4. National/international Books or Book Chapters

Construction of an automated hand sanitizer dispenser used against transmissible diseases. DU Ozsahin, BB Duwa, DI Emegano, MT Mustapha, N Usanase. Elsevier

Blood circuit in hemodialysis. DU Ozsahin, DI Emegano, BAT Bader, BB Duwa, I Ozsahin. Elsevier

The design of a noninvasive blood pressure measurement device. DU Ozsahin, DI Emegano, BJN Abuamsha, BB Duwa, I Ozsahin. Elsevier

A speech recognition system using technologies of audio signal processing. DU Ozsahin, DI Emeg

Electromechanical hand-driven electromyogram signal. DU Ozsahin, DI Emegano, SMY Altartoor, MEO Yousef, BB Duwa, Elsevier 2024

Construction of a miniaturized COVID-19 medical kit. DU Ozsahin, DI Emegano, O Haider, I Ibrahim, BB Duwa, F Alayouti, Elsevier 2024.

Development of a polymerase chain reaction device. DU Ozsahin, DI Emegano, M Skaik, M Al Obied, O Abid, BB Duwa, Elsevier 2024

Development of a brain-computer interface device converting brain signals to audio and written words. DU Ozsahin, BB Duwa, A Himaid, DI Emegano, I Ozsahin. Elsevier 2024

Design of endoscopic medical device. DU Ozsahin, DI Emegano, A Hassan, M Aldakhil, AM Banat, BB Duwa. Elsevier 2024

7.5. Articles Published in National Peer-Reviewed Journals. NA

