

WORMENOR DZIEDZORM

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EDUCATION

01/2025 – Date Doctor of Philosophy (PhD) Interdisciplinary Health Science
University of Texas at El Paso
09/2019 – 12/2021 Master of Philosophy (MPhil) Chemical Pathology
University of Ghana
02/2012 – 09/2014 Bachelor of Technology (B. Tech) Science Laboratory Technology
Accra Technical University - Clinical Biochemistry
09/2008 – 05/2011 Higher National Diploma (HND) Science Laboratory Technology
Accra Technical University - Clinical Biochemistry
2007 – 2008 Certified Desktop and Network Administrator (CDNA)
NIIT

PUBLICATIONS & REVIEWING

Book chapters

Ofori, E. K., & Wormenor, D. (2025). *Liver cancer: Biomarker landscape*. In *Biomarker landscape in cancer research* (Vol. 2, pp. 1–23). Elsevier Inc. <https://doi.org/10.1016/B978-0-443-33902-8.00017-1>

Ofori, E. K., & Wormenor, D. (2025). *Thyroid cancer: Biomarker landscape*. In *Biomarker landscape in cancer research* (Vol. 2, pp. 269–290). Elsevier Inc. <https://doi.org/10.1016/B978-0-443-33902-8.00017-1>

Ofori, E. K., Wormenor, D., & Nyarko, E. N. (2025). *Thyroid cancer: Advances in diagnostic research*. In *Diagnostic landscape in cancer research* (Vol. 3, pp. 235–246). Elsevier Inc. <https://doi.org/10.1016/B978-0-443-33849-6.00012-X>

Journal Articles

Ofori EK, **Wormenor D.**, Buabeng A, Dogodzi FK, Adusu-Donkor LX, Bernard SK, Amponsah SK, Asare-Anane H. Comparative Determination of Mitochondrial Biomarkers and Their Relationship with Insulin Resistance in Type 2 Diabetic Patients: An Observational Cross-Sectional Study. *Endocrinol Diabetes Metab.* 2024 Jul;7(4):e507. [doi: 10.1002/edm2.507](https://doi.org/10.1002/edm2.507). PMID: 38943337; PMCID: PMC11213964

Adusu-Donkor L, Ofori EK, Kotey FCN, Dogodzi FK, **Wormenor D**, Buabeng A, Bernard SK, Amponsah SK, Asare-Anane H. Blood C-peptide concentration as a proxy marker of cardiovascular disease: An observational cross-sectional study. *Health Sci Rep.* 2023 Sep 1;6(9):e1535. [doi: 10.1002/hsr2.1535](https://doi.org/10.1002/hsr2.1535). PMID: 37662537; PMCID: PMC10472907

Ofori EK, Buabeng A, Amanquah SD, Danquah KO, Amponsah SK, **Wormenor D**, Dogodzi FK, Adusu-Donkor LX, Bernard SK, Asare-Anane H. Effect of circulating ceramides on adiposity and insulin resistance in patients with type 2 diabetes: An observational cross-sectional study. *Endocrinol Diabetes Metab.* 2023 May;6(3):e418. [doi: 10.1002/edm2.418](https://doi.org/10.1002/edm2.418). Epub 2023 Mar 23. PMID: 36952350; PMCID: PMC10164428.

Dogodzi FK, Ofori EK, Otsyina HR, Adusu-Donkor L, **Wormenor D**, Bernard SK, Buabeng A, Asare-Anane H., Danquah KO. Evaluating cytokine levels and selected biochemical parameters at two-time points in crossbred cattle infected with *Anaplasma marginale*. Journal 6(2): 1014–23. [doi:10.46829/hsijournal.2024.12.6.2.1014-1023](https://doi.org/10.46829/hsijournal.2024.12.6.2.1014-1023).

Posters

Wormenor D.

Comparative determination of mitochondrial biomarkers and their relationship with insulin resistance in type 2 diabetic patients.

Viva La Salud 4th Annual College of Health Sciences Health Disparities Conference, UTEP 2025

Wormenor D.

Comparative determination of mitochondrial biomarkers and their relationship with insulin resistance in type 2 diabetic patients.

GradExpo. University of Texas at El Paso. 2025.

Lopez J, **Wormenor D**, Min Kisuk

The role of MKP-5-mediated p53 in chemotherapy-induced cardiotoxicity

Campus Office of Undergraduate Research Initiatives (COURI). University of Texas at El Paso. 2025.

Wormenor D, Min K.

The Role of MKP-5 in Mitochondrial Protection against Doxorubicin-Induced Cardiotoxicity

Texas Chapter ACSM Annual Meeting, Waco, TX 2026

Wormenor D, Min K.

MKP-5 Modulates Mitochondrial Protection in Doxorubicin-Induced Cardiotoxicity

The Rio Grande Physiological Society, 2026

Burrell College, Las Cruces, NM

Reviewing

Advances in Cancer Biology - Metastasis

TEACHING EXPERIENCE

January 2025 – Present, University of Texas at El Paso (UTEP)

Position: Graduate Teaching Assistant – Exercise physiology

- Teaching and supervising courses in exercise physiology and laboratory work
- Developing teaching materials for lectures and assessment of student performance

September 2023 – December 2024 KAAF University College, Ghana

Position: Lecturer

- Teaching courses in Clinical chemistry, Laboratory techniques and Biophysics
- Developing teaching materials for lectures, supervision of practical laboratory work, assessment of student performance, and supervision of student research projects

September 2021 – December 2024 Advance Global College

Position: Part-Time Lecturer

- Teaching Clinical Chemistry courses
- Developing teaching materials for lectures, supervision of practical laboratory work, assessment of student performance, and supervision of student research projects

CLINICAL EXPERIENCE**December 2018 – December 2024 Lapaz Community Hospital****Position: Head of Department - Chemical Pathology**

- Planning, development, and implementation of departmental policies and standard operating protocol, Inventory control, personnel training, and supervision
- Performing Specialized laboratory work in chemistry, coagulation, and endocrinology
- Verify instrument functionality by checking and calibrating specific lab instruments.
- Quality control management, including the implementation of quality control procedures to ensure accurate and reliable laboratory results, verify that test procedures are performed following standard operating procedures, and collect diagnostic samples for clinical assessment and quality assurance.

December 2015 – 2018 Lapaz Community Hospital**Position: Medical Laboratory Scientist (MLS)**

- General laboratory duties, conduct lab analysis in the areas of serology, microbiology, and chemistry, Conduct lab tests in the areas of hematology, urinalysis, serology, and chemistry
- Specialized laboratory work in endocrinology
- Prepare chemical solutions, reagents, and specimens for microscopic examination, verify instrument functionality by checking and calibrating specific lab instruments

January 2015 – August 2015 Yeboah Hospital**Position: Medical Laboratory Scientist (MLS)**

- Assist hospital physicians in the diagnosis and treatment of illnesses, injuries, and medical conditions by providing clinical testing and specimen analysis.
- Collect diagnostic samples for clinical assessment and quality assurance, conduct lab analysis in the areas of hematology, serology, chemistry, hormones, coagulation, and microbiology, and verify test procedures performed following standard operating procedures
- Training and supervision of internship students

March 2013 – December 2014 Lynch Medical Services (Diagnostic center)**Position: Laboratory Technologist**

- Collect diagnostic samples for clinical assessment and quality assurance.
- Conduct lab tests in the areas of hematology, urinalysis, serology, and chemistry
- Prepare chemical solutions, reagents, and specimens for microscopic examination; perform laboratory tests; analyze and report findings; and investigate atypical results and discrepancies to determine causation.

December 2011- February 2013 Ghana Health Service – Ada Health Center**Position: Laboratory Technologist**

- Day-to-day management of the laboratory
- Check inventory and order supplies for use
- Verify instrument functionality by checking and calibrating specific lab instruments.
- Prepare chemical solutions, reagents, and specimens for microscopic examination; perform laboratory tests; analyze and report findings

Graduate student grants

- 2025 Role of MKP-5 in doxorubicin-induced myopathy and attenuation by exercise
Ray Biotech Innovative Research Grant (\$20,000 for 1 year) – **Not Funded**
- 2025 Role of MKP-5 in chemotherapy-induced insulin resistance
Laura Bassi Scholarship (\$2,500 for 1 year) – **Not Funded**
- 2025 Role of MKP-5 in chemotherapy-induced insulin resistance
UTEP CHS Student Research Grant (\$1,000 for 5 months) – **Funded**
- 2025 Role of MKP-5 in chemotherapy-induced insulin resistance
Role: Research
UTEP IHS PhD program research support award (\$500 for 5 month) – **Funded**

Skills/Certificates, Membership, And Activities

Language and software proficiency

Fluent in English (speak, read, write). Proficient in statistical analysis software: SPSS, GraphPad; Mendeley reference manager; Microsoft Office: Excel, Word, PowerPoint.

Training, Licenses, and Certifications

- Allied Health Professions Council, Ghana (Certificate of Practice: 11005515)
- Ghana association of medical laboratory Scientists – Member (B5201)
- Society of Medical Laboratory Managers, Ghana – Member
- African Society of Laboratory Medicine – Member (ASLM-MBR-7249)
- Ghana Biomedical Convention – Member

Community service

2011 – 2012 National Service Personnel Association – Organizing secretary, Dangme East District, Ada

2014 – 2019 Aulis Health Foundation – Founding member

2016 Tobinco Foundation – Volunteer

2013 – SMART Medical Services, Founding Director

Continuous Professional Development

- Texas Chapter ACSM Annual Meeting, Waco, TX 2026
- Miners Leadership Summit, February 2025
- Annual national congress and scientific conference, 4 – 9 November 2024, Ghana Association of Medical Laboratory Scientists (GAMLS)
- Annual national congress and scientific conference, 4 – 9 November 2023, Ghana Association of Medical Laboratory Scientists (GAMLS)
- Medical Laboratory Professional Workers Union (MELPWU) 19 – 23rd September 2022
- Diagnosis and management of Hereditary Angioedema in Ghana 24th May 2021.
- Annual national congress and scientific conference, 13 – 16 October 2021, GAMLS
- Annual national congress and scientific conference, 13 – 17 October 2020, GAMLS
- Scopus Workshop 22/02/2019

- Scopus Workshop, Korle bu teaching hospital, Accra 22/02/2020
- Ghana Standards GS ISO 15189:2017 Training, Oceanic Resort, Accra 7-8/06/2019 –
- Ghana Standards GS ISO 15189:2017 Training, Kumasi Centre For Collaborative Research into Tropical Medicine (KCCR), Kumasi 6-7/09/2019 –
- National congress and scientific conference of Ghana association of medical Laboratory Scientist (GAMLS), Chances Hotel, Ho1-3/11/2018 –
- BD Good Phlebotomy Practice Training - Beckington Dickinson (BD), 2016
- TB diagnosis and malaria project training, Dangbe East district hospital, Ada 13/02/2013
- Service and maintenance training for WEINMANN emergency products –Medical Technics LTD Accra, June 2013
- The Fifth Annual Ghana Biomedical Convention: Enhancing Biomedical Research Education for National Development 30 July – 1 August 2012
- TB diagnosis and IMAD malaria project training for laboratory staff of Dangbe East District – Dangbe east district hospital, Ada, February 2012
- Laboratory training for national service personnel, D/E district hospital, Ada October 2011
- 3rd symposium on Birth Defects and Rare Diseases, Accra 17th March 2021
- Laboratory Testing as the Cornerstone of the COVID-19 Response in Nigeria, Tuesday May 12th, 2020