Samuel Acquah

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RESEARCH

Interests	Diabetes Research · diabetes-malaria interaction · diabetogenic risk of COVID-19
Areas	Epidemiology · Public Health, Environmental and Occupational Health · Endocrinology, Diabetes and Metabolism · Infectious Diseases · Endocrine and Autonomic Systems · Genetics

RESEARCH SUMMARY

36	289	9	9	1.00	8%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 36 publications listed below, 2002–2025. Field-weighted impact is the mean over the 26 works scored for it; 1.00 is the world average for works of the same field, type and year. 2 of the 26 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

ASSOCIATE PROFESSOR 2017–present
DEPARTMENT OF MEDICAL BIOCHEMISTRY, UNIVERSITY OF CAPE COAST, CAPE COAST, Ghana

EDUCATION AND QUALIFICATIONS

PHD ZOOLOGY (PARASITOLOGY) 2010–2014
DEPARTMENT OF BIOMEDICAL AND FORENSIC SCIENCES, UNIVERSITY OF CAPE COAST, CAPE COAST, Ghana

MSc. MOLECULAR BIOTECHNOLOGY 2004–2005
DEPARTMENT FOR MOLECULAR BIOMEDICAL RESEARCH, GHENT UNIVERSITY, GHENT, Belgium

MSc. FOOD SCIENCE AND NUTRITION 2003–2004
FOOD SCIENCE AND TECHNOLOGY, GHENT UNIVERSITY, GHENT, Belgium

BSc. BIOCHEMISTRY 1998–2002
DEPARTMENT OF BIOCHEMISTRY, KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI, Ghana

PUBLICATIONS

Journal articles 35

1. Emmanuel Nortey, Leonard Derkyi-Kwarteng, Daniel Amoako-Sakyi, Ansumana Sandy Bockarie, Samuel Yeboah, **Samuel Acquah** (2025). Galectin-3 did not associate with malaria-related insulin resistance in diabetic and non-diabetic respondents at a Ghanaian General Hospital. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0330068
2. Paul Nsiah, **Samuel Acquah**, Ansumana Sandy Bockarie, George Adjei, Ebenezer Aniakwaa-Bonsu, Oksana Ryabinina (2025). Non-high-density lipoprotein cholesterol predicts cardiovascular risk better than remnant cholesterol in patients with type 2 diabetes mellitus. *Frontiers in Cardiovascular Medicine*. https://doi.org/10.3389/fcvm.2025.1551203

3. Ansumana Sandy Bockarie, Leonard Derkyi-Kwarteng, Jeffrey Amankona Obeng, Richard Kujo Adatsi, Ebenezer Aniakwaa-Bonsu, Charles Apprey, Jerry Ampofo-Asiama, **Samuel Acquah** (2025). Prevalence and determinants of insulin resistance in recovered COVID-19 and uninfected residents of two regional capitals in Ghana: An observational study. *PLOS Global Public Health*. https://doi.org/10.1371/journal.pgph.0004506

4. Leonard Derkyi-Kwarteng, Frank Naku Ghartey, Eric Aidoo, Ernest Addae, Emmanuel Gustav Imbeah, Ato Ampomah Brown, **Samuel Acquah** (2024). A retrospective analysis suggests PTEN expression is associated with favorable clinicopathological features of breast cancer. *Scientific Reports*. https://doi.org/10.1038/s41598-024-69252-3

5. Worlanyo E. Gato, Bettye A. Apenteng, Samuel T. Opoku, **Samuel Acquah**, Zae A. Moss (2024). Assessment of the association between chronic diseases and anxiety and depression among adults in Cape Coast metropolis, Ghana. *Cogent Public Health*. https://doi.org/10.1080/27707571.2025.2461184

6. R. Adatsi, F. Pappoe, A.S. Bockarie, L. Derkyi-Kwarteng, P. Nsiah, E.W. Weyori, K. Dankwa, E. Aniakwaa-Bonsu, J. Setorglo, **S. Acquah** (2024). Falciparum malaria is associated with risk markers of type 2 diabetes mellitus in individuals with or without COVID-19 exposure. *African Journal of Clinical and Experimental Microbiology*. https://doi.org/10.4314/ajcem.v25i1.2

7. Nelson Ekow Kumah, Evans Kofi Agbeno, Leonard Derkyi-Kwarteng, Ebenezer Aniakwaa-Bonsu, Sampson Kafui Djonor, **Samuel Acquah** (2024). Gestational glucose intolerance among pregnant women at the Cape Coast Teaching Hospital. *BMC Pregnancy and Childbirth*. https://doi.org/10.1186/s12884-024-06568-y

8. Jeffrey Amankona Obeng, Richard Kujo Adatsi, Leonard Derkyi-Kwarteng, Ansumana Sandy Bockarie, Samuel Victor Nuvor, Ebenezer Aniakwaa-Bonsu, Paul Nsiah, **Samuel Acquah** (2024). Increased diabetogenic risk of recovered COVID-19 infection and unexposed respondents in the Central Region of Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2024.e02179

9. Heckel Abban, Jacob Setorglo, Christiana Nsiah-Asamoah, **Samuel Acquah**, Matilda Steiner-Asiedu (2024). The Prevalence and Predictors of MetS Among Commercial Long Distance Bus Drivers (CLDBDs) in Cape Coast, Ghana. *World Journal of Public Health*. https://doi.org/10.11648/j.wjph.20240904.19

10. A. S. Bockarie, Y. A. Nartey, P. Nsiah, E. K. M. Edzie, D. Tuoyire, **S. Acquah**, S. Eliason, B. Nkum (2023). Fatty liver biomarkers and insulin resistance indices in the prediction of non-alcoholic fatty liver disease in Ghanaian patients. *Endocrinology Diabetes & Metabolism*. https://doi.org/10.1002/edm2.456

11. Richard Kujo Adatsi, Ansumana Sandy Bockarie, Leonard Derkyi-Kwarteng, Faustina Pappoe, Paul Nsiah, Kwabena Dankwa, **Samuel Acquah** (2023). Increased insulin resistance with reduced beta cell function in recovered COVID-19 Ghanaians. *Endocrine and Metabolic Science*. https://doi.org/10.1016/j.endmts.2023.100150

12. Charles Apprey, Martina Mensah, Desmond Agyarko, Yaa Asantewaa K. Klu, **Samuel Acquah** (2023). The influence of nutrition knowledge, attitude, practices, and dietary diversity on obesity among market women in the Cape Coast Metropolis, Ghana: A cross-sectional study. *Health Science Reports*. https://doi.org/10.1002/hsr2.1742

13. **Samuel Acquah** (2020). Implications of COVID-19 Pandemic on Evolution of Diabetes in Malaria-Endemic African Region. *Journal of Diabetes Research*. https://doi.org/10.1155/2020/8205261

14. **S Acquah** (2019). Linking Malaria to Type 2 Diabetes Mellitus: A Review. *Journal of Ghana Science Association*. https://ir.ucc.edu.gh/server/api/core/bitstreams/4c9ed793-fd3d-4d67-8f57-f17866ec1c43/content

15. Worlanyo Eric Gato, **Samuel Acquah**, Paul Nsiah, Samuel Tawiah Opoku, Bettye Appiah Apenteng, Benjamin Kwasi Johnson (2018). Blood pressure control, glycemic control, and dyslipidemia among healthy adults in the Cape Coast metropolis, Ghana. *Diabetes & Metabolic Syndrome Clinical Research & Reviews*. https://doi.org/10.1016/j.dsx.2018.08.020

16. **Samuel Acquah**, Elvis Ameyaw, Leonard Derkyi-Kwarteng, Daniels Konja, Jonhnson Boampong (2017). Association of Insulin Resistance with Parasitaemia in Rat Malaria. *The International Annals of Medicine*. https://doi.org/10.24087/iam.2017.1.5.130

17. Worlanyo E. Gato, **Samuel Acquah**, Bettye A. Apenteng, Samuel T. Opoku, Blessed K. Boakye (2017). Diabetes in the Cape Coast metropolis of Ghana: an assessment of risk factors, nutritional practices and lifestyle changes. *International Health*. https://doi.org/10.1093/inthealth/ihx028

18. **Samuel Acquah**, JohnsonNyarko Boampong, BAE Jnr (2017). Functional paradox of leptin and adiponectin in diabetes patients and controls in the Cape Coast Metropolis of Ghana. *Medical Journal of Dr D Y Patil University*. https://doi.org/10.4103/mjdrdypu.mjdrdypu_271_16

19. **Samuel Acquah**, Benjamin Eghan, Johnson Boampong (2017). High prevalence of dyslipidemia irrespective of obesity in the cape coast metropolis of Ghana. *Ibnosina Journal of Medicine and Biomedical Sciences*. https://doi.org/10.4103/ijmbs.ijmbs_4_17

20. Williams Walana, **Samuel Acquah**, Samuel Makinin, Mavis Sarfo, Abdul Muktar, Ezekiel Vicar, Ernestina Yirkyio, Mohammed Osman, Alhasan Abdul-Mumin, Sylvanus Kampo, Iddrisu Yabasin, Juventus Ziem (2016). A Retrospective Study on Child Malnutrition in the Tamale Teaching Hospital, Ghana. *Journal of Scientific Research and Reports*. https://doi.org/10.9734/jsrr/2016/23095

21. **Samuel Acquah**, BAE Jnr, Johnson Nyarko Boampong (2016). Elevated adiponectin but varied response in circulating leptin levels to falciparum malaria in type 2 diabetics and non-diabetic controls. *Biomedical Journal*. https://doi.org/10.1016/j.bj.2016.09.003

22. **Samuel Acquah**, Johnson Nyarko Boampong, BA Eghan Jnr (2016). Increased Oxidative Stress and Inflammation Independent of Body Adiposity in Diabetic and Nondiabetic Controls infalciparumMalaria. *BioMed Research International*. https://doi.org/10.1155/2016/5216913

23. Verner N Orish, Onyekachi S Onyeabor, Johnson N Boampong, Richmond Afoakwah, Ekene Nwaefuna, **Samuel Acquah**, Adekunle O Sanyaolu, Nnaemeka C Iriemenam (2016). Prevalence of intermittent preventive treatment with sulphadoxine-pyrimethamine (IPTp-SP) use during pregnancy and other associated factors in Sekondi-Takoradi, Ghana. *African Health Sciences*. https://doi.org/10.4314/ahs.v15i4.6

24. **Samuel Acquah**, Benjamin Ackon Egham, Salifu Bawa, Johnson Nyarko Boampong (2014). Differential response in lipid levels of type 2 diabetics and non-diabetic controls to falciparum malaria. *Asian Journal of Medical Sciences*. https://doi.org/10.3126/ajms.v6i1.10798

25. **Samuel Acquah**, Johnson Nyarko Boampong, BA Eghan Jnr, Magdalena Eriksson (2014). Evidence of Insulin Resistance in Adult Uncomplicated Malaria: Result of a Two-Year Prospective Study. *Malaria Research and Treatment*. https://doi.org/10.1155/2014/136148

26. **Samuel Acquah**, Johnson N Boampong, R Afoakwah (2014). Influence of education on HIV infection among pregnant women attending their antenatal care in Sekondi-Takoradi metropolis, Ghana. *Journal of Health Care for the Poor and Underserved*. https://muse.jhu.edu/pub/1/article/552179/summary

27. Williams Walana, Samuel Ahiaba, Patrick Hokey, Ezekiel Vicar, **Samuel Acquah**, Edmund Der, Juventus Ziem (2014). Sero-prevalence of HIV, HBV and HCV among Blood Donors in the Kintampo Municipal Hospital, Ghana. *British Microbiology Research Journal*. https://doi.org/10.9734/bmrj/2014/12160

28. Verner N. Orish, Onyekachi S. Onyeabor, Johnson N. Boampong, **Samuel Acquah**, Adekunle O. Sanyaolu, Nnaemeka C. Iriemenam (2012). The effects of malaria and HIV co-infection on hemoglobin levels among pregnant women in Sekondi-Takoradi, Ghana. *International Journal of Gynecology & Obstetrics*. https://doi.org/10.1016/j.ijgo.2012.09.021

29. **S Acquah**, JN Boampong, EK Achampong, J Setorglo, D Obiri-Yeboah (2011). Lipid and lipoprotein levels in type 2 diabetes patients attending the Central Regional Hospital in the Cape Coast Metropolis of Ghana. *International Journal of Health Research*. https://www.ajol.info/index.php/ijhr/article/view/73865

30. JN Boampong, **S Acquah**, D Amoako-Sakyi (2011). The Role of Herbalists in the Management of Severe and Uncomplicated Malaria among Children in the Shama Ahanta East and Ahanta West Districts of Ghana. *Journal of Ghana Science Association*. https://ghanascience.gov.gh/wp-content/uploads/2018/04/Boampong-1.pdf

31. JN Boampong, **S Acquah**, MF Ofori (2010). A preliminary study of association of erythrocyte sedimentation rate with malaria-specific immunoglobulin G and malaria-induced anaemia. *Journal of Ghana Science Association*. https://www.academia.edu/download/82022761/

e08c64b7b4a2d8d9cea418cb9da2a35846ef.pdf

32. Mate Siakwa, Johnson Nyarko Boampong, **Samuel Acquah** (2009). Levels of serum alanine/aspartate aminotransferase and urea in apparently healthy rural community in Ghana. A case study in Subin-Akrofrom and Trede in the Ashanti Region. *Journal of Ghana Science Association*. https://ir.ucc.edu.gh/server/api/core/bitstreams/ac56f9e9-ff33-441d-bffd-53a140a66681/content

33. I Oduro, WO Ellis, **Acquah** (2008). Solar and tray-drying methods and physicochemical properties of sweet potato starch. *Ghana Journal of Agricultural Science*. https://www.ajol.info/index.php/gjas/article/view/46151/0

34. **Samuel Acquah** (2005). Molecular genetic studies on Populus trees: aligning the genetic map with the genome sequence and identifying genes for wood formation. *MSc dissertation*.

35. **Samuel Acquah** (2002). Proximate analysis of tetrapleura tetraptera (Prekese) fruits. *BSc project work*.

Theses 1

1. **Samuel Acquah** (2013). Effects of falciparum malaria on levels of selected biomarkers of cardiovascular disease risk in type 2 diabetics and non-diabetic controls. *Department of Biomedical and Forensic Sciences of the School of Biological Sciences, University of Cape Coast*. https://ir.ucc.edu.gh/server/api/core/bitstreams/c35b21a3-8f4f-4b8d-baa6-84a706773b4d/content