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RESEARCH

Interests	breast cancer genetic profiles and markers
Areas	Epidemiology · Infectious Diseases · Oncology · Public Health, Environmental and Occupational Health · Surgery · Artificial Intelligence

RESEARCH SUMMARY

32	906	14	14	0.82	6%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 32 publications listed below, 1994–2026. Field-weighted impact is the mean over the 16 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 16 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 27

1. Muhi-deen Wonwana Mohammed, Yussif Owusu Aboagye, **Akwasi Anyanful**, Samuel Kyei, Kwame Kumi Asare (2026). Evidence Gaps and Global Patterns in Leishmaniasis Control: A Scoping Review of Clinical, Diagnostic, and Treatment Strategies. *Journal of Parasitology Research*. https://doi.org/10.1155/japr/8882865
2. Nicholas Ekow Thomford, Oksana Ryabinina, Joel Adu Twum, John Anyimadu, Samuel Badu Nyarko, **Akwasi Anyanful**, Martins Ekor, George Boateng Kyei (2025). Cohort profile: the pharmacogenomics and pharmacokinetics study in Ghanaian HIV patients (GenoPharm-GH). *BMC Genomic Data*. https://doi.org/10.1186/s12863-025-01369-4
3. Francis E. Agamah, **Akwasi Anyanful**, Oksana Ryabinina, Joel Twum, Mahadia Tunga, Michelle Skelton, Christian D. Bope, Emile R. Chimusa, Nicholas E. Thomford (2025). Enabling data-driven decision-making for innovative health care and delivery in Africa. *npj Health Systems*. https://doi.org/10.1038/s44401-025-00047-y
4. Samuel Kyei, George Panyin Annan, Kwame Kumi Asare, Emmanuel Birikorang, **Akwasi Anyanful**, Randy Asiamah (2024). Efficacy of common decontamination techniques used in eye care facilities in Ghana. *AJO International*. https://doi.org/10.1016/j.ajoint.2024.100024
5. Faustina Adu, Ebenezer Aniakwaa-Bonsu, Samuel Badu Nyarko, Aikins Sarpong Obeng, Richmond Owusu Ateko, **Akwasi Anyanful**, Nicholas Ekow Thomford (2024). Host cytokine genetic polymorphisms in a selected population of persons living with hepatitis B virus infection in the central region of Ghana. *BMC Gastroenterology*. https://doi.org/10.1186/s12876-024-03456-9
6. Nicholas Ekow Thomford, Faustina Adu, Cyril Gavor-Kwashi, Samuel Badu Nyarko, Paul Nsiah, Richard Dadzie Ephraim, George Adjei, **Akwasi Anyanful** (2023). An exploratory pharmacogenetic screening of SLC22A6, SLC22A8, ABCC4 and ABCC10 genes in a cohort of Ghanaian HBV patients. *Egyptian Journal of Medical Human Genetics*. https://doi.org/10.1186/s43042-023-00428-8
7. Nicholas Ekow Thomford, **Akwasi Anyanful**, Richmond Owusu Ateko, Dee Blackhurst, Robert Peter Biney, Dennis Boadi, Samuel Badu Nyarko, Martins Ekor, George Boateng Kyei (2023). Apolipoprotein E genetic variation, atherogenic index and cardiovascular disease risk assessment in an African population: An analysis of HIV and malaria patients in Ghana. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0284697

8. Esther Sarpong, Desmond Omane Acheampong, George Nkansah Rost Fordjour, **Akwasi Anyanful**, Enoch Aninagyei, Derek A. Tuoyire, Dee Blackhurst, George Boateng Kyei, Martins Ekor, Nicholas Ekow Thomford (2022). Zero malaria: a mirage or reality for populations of sub-Saharan Africa in health transition. *Malaria Journal*. https://doi.org/10.1186/s12936-022-04340-1

9. Daniel Acquah, Francis T. Djankpa, Josephine Afful, Oscar A. Opoku, **Akwasi Anyanful** (2021). Assessment of lung function and pulmonary disorders among women involved in palm kernel oil processing in Cape Coast, Ghana. *International Journal of Community Medicine and Public Health*. https://doi.org/10.18203/2394-6040.ijcmph20211207

10. Nicholas Ekow Thomford, Robert Peter Biney, Emmanuel Okai, **Akwasi Anyanful**, Paul Nsiah, Prosperity G. Frimpong, Dominic O. Boakye, Charles A. Adongo, Paul Kruszka, Ambroise Wonkam (2020). Clinical Spectrum of congenital heart defects (CHD) detected at the child health Clinic in a Tertiary Health Facility in Ghana: a retrospective analysis. *Journal of Congenital Cardiology*. https://doi.org/10.1186/s40949-020-00034-y

11. Inusah D. Iddrisu, **Akwasi Anyanful**, Samuel V. Nuvor (2019). Incidence of adverse events after discharge from a secondary hospital in northern Ghana. *International Journal of Community Medicine and Public Health*. https://doi.org/10.18203/2394-6040.ijcmph20192295

12. Adamu Saanid, David Watmough, Samuel Debrah, Martin Morna, **Akwasi Anyanful** (2018). Breast-i Is an Effective and Reliable Adjunct Screening Tool for Detecting Early Tumour Related Angiogenesis of Breast Cancers in Low Resource Sub-Saharan Countries. *International Journal of Breast Cancer*. https://doi.org/10.1155/2018/2539056

13. F.N. Ghartey, D.J. Watmough, **A. Anyanful**, S. Debrah, M. Morna, S. Eliason, M. Adamu, L. Derkyi-Kwarteng (2016). A novel way to visualise tumour related angiogenesis and detect breast tumours in women: A combined clinical and optical method for breast cancer screening of well-women in Ghana. *Annals of Oncology*. https://doi.org/10.1093/annonc/mdw385.11

14. Frank Naku Ghartey Jnr, **Akwasi Anyanful**, Sebastian Eliason, Saanid Mohammed Adamu, Samuel Debrah (2016). Pattern of Breast Cancer Distribution in Ghana: A Survey to Enhance Early Detection, Diagnosis, and Treatment. *International Journal of Breast Cancer*. https://doi.org/10.1155/2016/3645308

15. Felix Yirdong, A Bockarie, **A Anyanful** (2014). HEPATITIS B VIRUS-KNOWLEDGE, ATTITUDE AND PRACTICES AMONG TAXI DRIVERS IN CAPE COAST METROPOLIS, GHANA. *prevalence*. https://www.academia.edu/download/45266725/4.pdf

16. **Akwasi Anyanful** (2013). A family of indoles regulate virulence and Shiga toxin production in pathogenic E. coli. *PLoS One*. https://doi.org/10.1371/journal.pone.0054456

17. **Akwasi Anyanful** (2011). CsrA and TnaB coregulate tryptophanase activity to promote exotoxin-induced killing of Caenorhabditis elegans by enteropathogenic Escherichia coli. *Journal of bacteriology*. https://doi.org/10.1128/jb.05197-11

18. **Akwasi Anyanful** (2009). CSN-5, a component of the COP9 signalosome complex, regulates the levels of UNC-96 and UNC-98, two components of M-lines in Caenorhabditis elegans muscle. *Molecular biology of the cell*. https://doi.org/10.1091/mbc.e09-03-0208

19. **Akwasi Anyanful** (2009). Conditioning protects C. elegans from lethal effects of enteropathogenic E. coli by activating genes that regulate lifespan and innate immunity. *Cell host & microbe*. https://www.cell.com/cell-host-microbe/fulltext/S1931-3128(09)00140-1

20. **Akwasi Anyanful** (2008). Transcription factors GATA/ELT-2 and forkhead/HNF-3/PHA-4 regulate the tropomyosin gene expression in the pharynx and intestine of Caenorhabditis elegans. *Journal of molecular biology*. https://www.sciencedirect.com/science/article/pii/S0022283607016063

21. **Akwasi Anyanful** (2005). Paralysis and killing of Caenorhabditis elegans by enteropathogenic Escherichia coli requires the bacterial tryptophanase gene. *Molecular microbiology*. https://doi.org/10.1111/j.1365-2958.2005.04739.x

22. **Akwasi Anyanful** (2005). Tissue expression of four troponin I genes and their molecular interactions with two troponin C isoforms in Caenorhabditis elegans. *Genes to Cells*. https://doi.org/10.1111/j.1365-2443.2005.00829.x

23. **Akwasi Anyanful** (2004). The RNA-binding protein SUP-12 controls muscle-specific splicing of the ADF/cofilin pre-mRNA in C. elegans. *The Journal of cell biology*. https://rupress.org/jcb/article-abstract/167/4/639/51412

24. **Akwasi Anyanful** (2001). The third and fourth tropomyosin isoforms of Caenorhabditis elegans are expressed in the pharynx and intestines and are essential for development and morphology. *Journal of molecular biology*. https://www.sciencedirect.com/science/article/pii/S0022283601950521

25. **Akwasi Anyanful** (1998). Tissue Specific Expression of CeTMIV, the fourth isoform of the Tropomyosin Gene in Caenorhabditis elegans. *日本分子生物学会年会プログラム・講演要旨集*. https://cir.nii.ac.jp/crid/1572824498916659968

26. George E. Armah, Hiroki Hori, **Akwasi Anyanful**, Julius A. Addo, Joseph O. Commey, Hitoshi Kamiya, Francis K. Nkrumah (1995). Human rotavirus subgroups and severity of associated diarrhoea in Ghana. *PubMed*.

27. G. E. Armah, J. A. A. Mingle, A. K. Dodoo, **A. Anyanful**, R. Antwi, J. Commey, F. K. Nkrumah (1994). Seasonality of rotavirus infection in Ghana. *Annals of Tropical Paediatrics*. https://doi.org/10.1080/02724936.1994.11747721

Conference papers 2

1. Clement Amponsah, ABA Kuma, **Akwasi Anyanful** (2025). Sickle cell awareness and diagnosis in Ghana: Impact of the Okyenhene's medical caravan community initiative. *BRITISH JOURNAL OF HAEMATOLOGY*. https://scholar.google.com/scholar?cluster=15943786851288784285&hl=en&oi=scholarr

2. **Akwasi Anyanful** (2007). GATA/ELT-2, CdxA homolog and fork head/HNF-3/PHA-4 transcription factors restrict the tropomyosin gene expressions in pharynx and gut of Caenorhabditis elegans. *GENES & GENETIC SYSTEMS*. https://scholar.google.com/scholar?cluster=9222626862219493 52&hl=en&oi=scholarr

Reports 1

1. Abigail Nana Ama Twekuwa Hayford, Yussif Owusu Aboagye, Nana Ama Frimpomaa Agyapong, Justice Afrifa, **Akwasi Anyanful** (2026). Burden and associated factors of urinary tract infections among pregnant women in Ghana: a systematic review and meta-analysis. *Systematic Reviews*. https://doi.org/10.1186/s13643-026-03351-2

Theses 2

1. **Akwasi Anyanful** (2014). Development of Monocarbonyl Curcumin Analogues Towards Treating Tuberculosis and Cancer. *Emory University*. https://search.proquest.com/openview/ebf17de2d447b616977c6c4e9681fe25/1?pq-origsite=gscholar&cbl=18750

2. **Akwasi Anyanful** (2002). Tissue specific expression and developmental function of the Caenorhabditis elegans tropomyosin gene. *岡山大学*.