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RESEARCH

Interests	Infectious diseases · Biochemistry · Molecular and Cellular Biology
Areas	Public Health, Environmental and Occupational Health · Parasitology · Infectious Diseases · Epidemiology · Immunology · Molecular Biology

RESEARCH SUMMARY

35	663	13	17	2.14	23%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 35 publications listed below, 2014–2026. 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. 6 of the 26 papers scored for it are among the world's most cited tenth for their field, type and year.

DISTINCTIONS, MEMBERSHIPS AND SERVICE

British Society For Parasitology
Bedford, United Kingdom

American Society for Microbiology
Washington, United States

PUBLICATIONS

Journal articles 34

1. Abdul-Samad Alhassan, Pius K Sam, Alberta Serwah Anning, **George Ghartey-Kwansah** (2026). Computational-Aided Drug Discovery Approaches Exploring Therapeutic Potential of Global Health Priority Box Compounds Against Schistosoma haematobium Infection. *Integrated Health Research Journal*. https://journal.ucc.edu.gh/index.php/ihrj/article/view/2190
2. Abdul-Samad Alhassan, Prince Ottah, Denzel Opoku-Kwabi, Emmanuella Akumeniwaa Nkrumah, Grace Zaghe, Abraham Awonboro Adiak, Alberta Serwah Anning, **George Ghartey-Kwansah** (2026). Epidemiology and risk factors of intestinal parasitic infections among pregnant women in the Northern Region of Ghana. *BMC Infectious Diseases*. https://doi.org/10.1186/s12879-026-13694-9
3. Evans Kwabena Abor, Humphrey P. K. Addy, Emmanuel Adu Sarpong, Pius Kwasi Sam, Alberta Serwah Anning, **George Ghartey-Kwansah**, Francis Ackah Armah (2026). Machine learning-enhanced nano-QSAR and multiscale modeling for predictive nanomedicine: applications in herbal therapeutics and neglected tropical diseases. *Discover Nano*. https://doi.org/10.1186/s11671-026-04679-3
4. Wendy Larbi, Leslie Larry Afutu, Emmanuel Adu Sarpong, Abdul-Samad Alhassan, Nicholas Donkor, Alberta Serwah Anning, **George Ghartey-Kwansah** (2026). Microbial profile and antimicrobial resistance patterns in clinical specimens from a secondary-level hospital in Accra, Ghana: a five-year retrospective study. *BMC Microbiology*. https://doi.org/10.1186/s12866-026-05341-9
5. Mustapha A. Ahmed, Elvis O. Ameyaw, Francis A. Armah, Patrick M. Fynn, Isaac Asiamah, **George Ghartey-Kwansah**, Felix K. Zoiku, Ebenezer Ofori-Attah, Christian K. Adokoh (2024). Alkaloidal Extracts from Avicennia africana P. Beauv. (Avicenniaceae) Leaf: An Antiplasmodial, Antioxidant, and Erythrocyte Viable. *Advances in Pharmacological and Pharmaceutical Sciences*. https://doi.org/10.1155/2024/4541581

6. Evans Thompson, Akua Tutuwaa Badu, Emmanuella Abban, Evelyn Baawa Eyeson, Leslie Larry Afutu, Bless Amankwaah, Suzzana Dickson Buabeng, Abigail Agyen Frimpong, Alberta Serwah Anning, **George Ghartey-Kwansah** (2024). Bacterial contamination on clinical surfaces and oxygen device accessories in the emergency unit of a tertiary health facility in Ghana. *BMC Infectious Diseases*. https://doi.org/10.1186/s12879-023-08894-6

7. Enoch Aninagyei, Dakorah Mavis Puopelle, Isaac Tukwarlba, **George Ghartey-Kwansah**, Juliana Attoh, Godwin Adzakpah, Desmond Omane Acheampong (2024). Molecular speciation of Plasmodium and multiplicity of P. falciparum infection in the Central region of Ghana. *PLOS Global Public Health*. https://doi.org/10.1371/journal.pgph.0002718

8. Denzel Opoku-Kwabi, Belinda Sevor, Emmanuel Adu Sarpong, Pius Kwasi Sam, Abigail Agyen Frimpong, Porschier Aninagyei Marfo, Michael Asare, Emmanuella Akumeniwaa Nkrumah, Bernard Boakye Badu, Alberta Serwah Anning, **George Ghartey-Kwansah** (2024). Prevalence of schistosomiasis among school children at Esuekyir community in the Central Region of Ghana. *BMC Infectious Diseases*. https://doi.org/10.1186/s12879-024-09928-3

9. Mustapha A. Ahmed, **George Ghartey-Kwansah**, Francis Ackah-Armah, Patrick M. Fynn, Felix K. Zoiku, Ebenezer Ofori-Atta, Christian K. Adokoh (2024). Stage -specific antimalarial activity of alkaloidal fractions of the Avicennia africana P. Beauv. (Avicenniaceae) leaf extract. *Microbes and Infectious Diseases /Microbes and Infectious Diseases*. https://doi.org/10.21608/mid.2024.302814.2138

10. Samuel Abokyi, **George Ghartey-Kwansah**, Dennis Yan-yin Tse (2023). TFEB is a central regulator of the aging process and age-related diseases. *Ageing Research Reviews*. https://doi.org/10.1016/j.arr.2023.101985

11. **George Ghartey-Kwansah** (2022). A Protocol for Immunohistochemistry and RNA In-situ Distribution within Early Drosophila Embryo. *JoVE (Journal of Visualized Experiments)*. https://www.jove.com/t/61776/a-protocol-for-immunohistochemistry-rna-situ-distribution-within

12. Lydia Nkuah Nortey, Alberta Serwah Anning, Gideon Kwesi Nakotey, Abdala Mumuni Ussif, Yeboah Kwaku Opoku, Silas Acheampong Osei, Benjamin Aboagye, **George Ghartey-Kwansah** (2022). Genetics of cerebral malaria: pathogenesis, biomarkers and emerging therapeutic interventions. *Cell & Bioscience*. https://doi.org/10.1186/s13578-022-00830-6

13. Mustapha A. Ahmed, Elvis O. Ameyaw, Francis Ackah-Armah, Desmond O. Acheampong, Peter K. Gathumbi, Michael B. Adinortey, **George Ghartey-Kwansah**, Hope R. Otsyina, Christian K. Adokoh (2022). In Vitro and In Vivo Toxicological Evaluation of Avicennia africana P: Beauv. (Avicenniaceae) Leaf Extract in a Rat Model. *Journal of Toxicology*. https://doi.org/10.1155/2022/3434383

14. Silas Acheampong Osei, Robert Peter Biney, Alberta Serwah Anning, Lydia Nkuah Nortey, **George Ghartey-Kwansah** (2022). Low incidence of COVID-19 case severity and mortality in Africa; Could malaria co-infection provide the missing link? *BMC Infectious Diseases*. https://doi.org/10.1186/s12879-022-07064-4

15. Enoch Aninagyei, Clement Okraku Tettey, Henrietta Kwansa-Bentum, Adjoa Agyemang Boakye, **George Ghartey-Kwansah**, Alex Boye, Desmond Omane Acheampong (2022). Oxidative stress and associated clinical manifestations in malaria and sickle cell (HbSS) comorbidity. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0269720

16. Emadeldin Hassan E. Konozy, Makarim El-fadil M. Osman, Amina I. Dirar, **George Ghartey-Kwansah** (2022). Plant lectins: A new antimicrobial frontier. *Biomedicine & Pharmacotherapy*. https://doi.org/10.1016/j.biopha.2022.113735

17. Alberta Serwah Anning, Emmanuel Baah, Suzzana Dickson Buabeng, Bernice Gloria Baiden, Benjamin Aboagye, Yeboah Kwaku Opoku, Leslie Larry Afutu, **George Ghartey-Kwansah** (2022). Prevalence and antimicrobial resistance patterns of microbes isolated from individuals attending private diagnostic centre in Cape Coast Metropolis of Ghana. *Scientific Reports*. https://doi.org/10.1038/s41598-022-18595-w

18. Emadeldin Hassan E. Konozy, Makarim El-fadil M. Osman, **George Ghartey-Kwansah**, Hind Mohamed Abushama (2022). The striking mimics between COVID-19 and malaria: A review. *Frontiers in Immunology*. https://doi.org/10.3389/fimmu.2022.957913

19. **George Ghartey-Kwansah** (2021). Expression of 20-hydroxyecdysone-related genes during gonadal

development of Teleogryllus emma (Orthoptera: Gryllidae). *Archives of Insect Biochemistry and Physiology*. https://doi.org/10.1002/arch.21824

20. Isaac Kyei-Barffour, Samuel Akwetey Addo, Enoch Aninagyei, **George Ghartey-Kwansah**, Desmond Omane Acheampong (2021). Sterilizing Immunity against COVID-19: Developing Helper T cells I and II activating vaccines is imperative. *Biomedicine & Pharmacotherapy*. https://doi.org/10.1016/j.biopha.2021.112282

21. **George Ghartey-Kwansah**, Frank Adu-Nti, Benjamin Aboagye, Amandus Ankobil, Edward Eyipe Essuman, Yeboah Kwaku Opoku, Samuel Abokyi, Emmanuel Kwasi Abu, Johnson Nyarko Boampong (2020). Autophagy in the control and pathogenesis of parasitic infections. *Cell & Bioscience*. https://doi.org/10.1186/s13578-020-00464-6

22. **George Ghartey-Kwansah**, Qinan Yin, Zhongguang Li, Kristyn Gumpper, Yuting Sun, Rong Yang, Dan Wang, Odell Jones, Xin Zhou, Liyang Wang, Joseph Bryant, Jianjie Ma, Johnson Nyarko Boampong, Xuehong Xu (2020). Calcium-dependent Protein Kinases in Malaria Parasite Development and Infection. *Cell Transplantation*. https://doi.org/10.1177/0963689719884888

23. **George Ghartey-Kwansah**, Benjamin Aboagye, Frank Adu-Nti, Yeboah Kwaku Opoku, Emmanuel Kwasi Abu (2020). Clearing or subverting the enemy: Role of autophagy in protozoan infections. *Life Sciences*. https://doi.org/10.1016/j.lfs.2020.117453

24. Opoku, Yeboah Kwaku, Liu, Zhihang, Afrifa, Justice, Kumi, Asare Kwame, Liu, Han, **Ghartey-Kwansah, George**, Koranteng, Harriet, Jiang, Xinghao, Ren, Guiping, Li, Deshan (2020). Fibroblast growth factor−21 ameliorates hepatic encephalopathy by activating the STAT3-SOCS3 pathway to inhibit activated hepatic stellate cells. *PubMed*. https://doi.org/10.17179/excli2020-1287

25. Rui Feng, Liyang Wang, Zhonguang Li, Rong Yang, Yu Liang, Yuting Sun, Qiuxia Yu, **George Ghartey-Kwansah**, Yanping Sun, Yajun Wu, Wei Zhang, Xin Zhou, Mengmeng Xu, Joseph Bryant, Guifang Yan, William Isaacs, Jianjie Ma, Xuehong Xu (2018). A systematic comparison of exercise training protocols on animal models of cardiovascular capacity. *Life Sciences*. https://doi.org/10.1016/j.lfs.2018.12.001

26. **George Ghartey-Kwansah** (2018). Comparative analysis of FKBP family protein: evaluation, structure, and function in mammals and Drosophila melanogaster. *BMC Developmental Biology*. https://doi.org/10.1186/s12861-018-0167-3

27. **George Ghartey-Kwansah**, Benjamin Aboagye, Yeboah Kwaku Opoku (2018). Hormetic Effect of Combined Stresses on Drosophila melanogaster Cardiac Performance and Mobility: A Comparative Study. *International Journal of Molecular Biotechnology*. https://biotech.journalspub.info/?journal=IJMB&page=article&op=view&path%5B%5D=356

28. **G Ghartey-Kwansah** (2018). Plant lectins: implications in Tolerance and Resistance. *Annual Plant Reviews online*.

29. Yeboah K. Opoku, Johnson N. Boampong, Irene Ayi, Godwin Kwakye-Nuako, Dorcas Obiri-Yeboah, Harriet Koranteng, **George Ghartey-Kwansah**, Kwame K. Asare (2018). Socio-Behavioral Risk Factors Associated with Cryptosporidiosis in HIV/AIDS Patients Visiting the HIV Referral Clinic at Cape Coast Teaching Hospital, Ghana. *The Open AIDS Journal*. https://doi.org/10.2174/1874613601812010106

30. **George Ghartey-Kwansah**, Benjamin Aboagye, Yeboah Kwaku Opoku (2018). The Pervasiveness of α-Thalassemia in Patients Presenting to Health Facilities in Central and Western Regions of Ghana. *International Journal of Molecular Biotechnology*. https://biotech.journalspub.info/index.php/IJMB/article/view/365

31. **George Ghartey-Kwansah** (2017). Optimizing conditions for calcium phosphate mediated transient transfection. *Saudi journal of biological sciences*. https://www.sciencedirect.com/science/article/pii/S1319562X17300438

32. **George Ghartey-Kwansah** (2017). Transportation of liquid crystal and CaCO3 vaterite crystal in chicken embryo and early postnatal development. *Molecular Crystals and Liquid Crystals*. https://doi.org/10.1080/15421406.2017.1289652

33. **George Ghartey-Kwansah**, Johnson N. Boampong, Benjamin Aboagye, Richmond Afoakwah, Elvis O. Ameyaw, Neils B. Quashie (2015). The Prevalence ofα-Thalassemia and Its Relation toPlasmodium

falciparumInfection in Patients Presenting to Clinics in Two Distinct Ecological Zones in Ghana. *Hemoglobin*. https://doi.org/10.3109/03630269.2015.1095207

34. E. K. ABU, J. N. BOAMPONG, I. AYI, **G. GHARTEY-KWANSAH**, R. AFOAKWAH, P. NSIAH, E. BLAY (2014). Infection risk factors associated with seropositivity forToxoplasma gondiiin a population-based study in the Central Region, Ghana. *Epidemiology and Infection*. https://doi.org/10.1017/s0950268814002957

Book chapters 1

1. Christian K. Adokoh, Mustapha A. Ahmed, **George Ghartey-Kwansah** (2025). Bioactive Compounds and Biological Activities of Avicennia africana P. Beauv. *Reference series in phytochemistry*. https://doi.org/10.1007/978-3-031-63920-3_5-1