Dr. Yeboah Kwaku Opoku

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RESEARCH

Interests: Parasitology · Biopharmaceuticals

Areas: Molecular Biology · Epidemiology · Parasitology · Public Health, Environmental and Occupational Health · Infectious Diseases · Applied Microbiology and Biotechnology

RESEARCH SUMMARY

32	330	13	14	2.31	13%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 32 publications listed below, 2016–2026. Field-weighted impact is the mean over the 24 works scored for it; 1.00 is the world average for works of the same field, type and year. 3 of the 24 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer 2020–present
University of Education, Winneba, Winneba, Ghana

EDUCATION AND QUALIFICATIONS

Postgraduate diploma in teaching and learning in Higher education 2020–2021
ITECPD, University of Education Winneba, Winneba, Ghana

PhD. Biochemistry and Molecular biology 2016–2019
Biochemistry and Molecular biology, Northeast Agricultural University, Harbin, China

Chinese Language 2015–2016
Division of international exchange, Northeast Agricultural University, Harbin, China

MPhil Parasitology 2010–2014
Human Biology, University of Cape Coast, Cape Coast, Ghana

Bsc. Human biology 2005–2009
Human Biology, University of Cape Coast, Cape Coast, Ghana

PUBLICATIONS

Journal articles 32

1. Rebecca Manor Losu, Daniel Morrison, **Yeboah Kwaku Opoku** (2026). Effect of Formative Assessment Practices on the Academic Performance of Senior High School Students in Photosynthesis. *OALib*. https://doi.org/10.4236/oalib.1114801
2. Justice Afrifa, Eric Gyamerah Ofori, Evans Duah, Ibrahim W. Naveh-fio, Gabriel Pezahso Kotam, **Yeboah Kwaku Opoku**, Addae Boateng Adu-Gyamfi, Helena Acquah, Enoch Essiam, Samuel Essien-Baidoo, Kwame Kumi Asare, Richard K. D. Ephraim (2026). Oxidative Stress in Heat Stress Nephropathy: Crosstalk. *Oxidative Medicine and Cellular Longevity*. https://doi.org/10.1155/omcl/1708417
3. Kwame Kumi Asare, Daniel Edem Azumah, Czarina Owusua Adu-Gyamfi, **Yeboah Kwaku Opoku**, Edward

Morkporkpor Adela, Philip Afful, Godwin Kwami Abotsi, Ernest Awuakye Abban, Paul Ekow Duntu, Akwasi Anyamful, Alberta Bedford Moses, Emmanuel Botchway, Philimon Mwintige, Samuel Kyei, Linda Eva Amoah, Emmanuel Owusu Ekuman (2024). Comparison of microscopic and xpert MTB diagnoses of presumptive mycobacteria tuberculosis infection: retrospective analysis of routine diagnosis at Cape Coast Teaching Hospital. *BMC Infectious Diseases*. https://doi.org/10.1186/s12879-024-09566-9

4. Justice Afrifa, Eric Gyamerah Ofori, **Yeboah Kwaku Opoku**, Kwame Kumi Asare, Rosemary Doe Sorkpor, Ibrahim W. Naveh-Fio, Richard Armah, Sandra Ofori, Richard K. D. Ephraim (2024). Oxidative Stress and Cancer Risk in Schistosomiasis. *Oxidative Medicine and Cellular Longevity*. https://doi.org/10.1155/omcl/9701021

5. KK Asare, **YK Opoku** (2023). Antimalarial health seekers' preferences and perceptions: insights from Ghana. *J Infect Dis Epidemiol*. https://www.researchgate.net/profile/Kwame-Asare/publication/376191990_Antimalarial_Health_Seekers'_Preferences_and_Perceptions_Insights_from_Ghana/links/65721623ea5f7f02054ce481/Antimalarial-Health-Seekers-Preferences-and-Perceptions-Insights-from-Ghana.pdf

6. Kwame Kumi Asare, Hilda Amuaku Bentil, Emmanuel Gyesi, Samuel Amoah, Felicity Bentsi-Enchill, **Yeboah Kwaku Opoku** (2023). Candidiasis profile at the outpatient department of the university of cape coast hospital in the central region of Ghana: a retrospective study. *BMC Women s Health*. https://doi.org/10.1186/s12905-023-02253-y

7. Paul Ekow Duntu, Justice Afrifa, **Yeboah Kwaku Opoku**, Kwame Kumi Asare (2023). Plasmodium Falciparum Rifins: Role in malaria pathogenesis. *Integrated Health Research Journal*. https://doi.org/10.47963/ihrj.v1i2.1375

8. Precious Barnes, Elvis Agbo, Jianjie Wang, Benjamin Amoani, **Yeboah Kwaku Opoku**, Perditer Okyere, Roland Osei Saahene (2023). Prognostic Worth of Nrf2/BACH1/HO-1 Protein Expression in the Development of Breast Cancer. *Medical Principles and Practice*. https://doi.org/10.1159/000534534

9. Kwame Kumi Asare, Samuel Amoah, Cornelius Agyeman Coomson, Cecil Banson, Derrick Yaro, Jennifer Mbata, Rudolf Aaron Arthur, Peter Bilatam Mayeem, Justice Afrifa, Felicity Bentsi-Enchill, **Yeboah Kwaku Opoku** (2022). Antibiotic-resistant pathogenic bacterial isolates from patients attending the outpatient department of university of Cape Coast hospital, Ghana: A retrospective study between 2013–2015. *PLOS Global Public Health*. https://doi.org/10.1371/journal.pgph.0000417

10. Xinghao Jiang, Qing Wu, **Yeboah Kwaku Opoku**, Yimeng Zou, Dan Wang, Changhui Hu, Guiping Ren (2022). Fibroblast growth factor 21 attenuates the progression of hyperuricemic nephropathy through inhibiting inflammation, fibrosis and oxidative stress. *Basic & Clinical Pharmacology & Toxicology*. https://doi.org/10.1111/bcpt.13793

11. 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

12. **Yeboah Kwaku Opoku**, Kwame Kumi Asare, George Ghartey-Quansah, Justice Afrifa, Felicity Bentsi-Enchill, Eric Gyamerah Ofori, Charles Kwesi Koomson, Rosemary Kumi-Manu (2022). Intestinal microbiome–rheumatoid arthritis crosstalk: The therapeutic role of probiotics. *Frontiers in Microbiology*. https://doi.org/10.3389/fmicb.2022.996031

13. Kwame Kumi Asare, Jennifer Mbata, Samuel Amoah, Peter Bilatam Mayeem, Felicity Bentsi-Enchill, **Yeboah Kwaku Opoku** (2022). Network of Interaction among Enterobacter Species and Klebsiella Pneumonia Clinical Isolates and the Antibiotic Resistance Pattern at Cape Coast. *The Open Microbiology Journal*. https://doi.org/10.2174/18742858-v16-e221216-2021-53

14. 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

15. Justice Afrifa, Justice Africa, Jennifer Mbata, **Yeboah Kwaku Opoku** (2021). The emergence of chloroquine-sensitive Plasmodium falciparum is influenced by selected communities in some parts of the

Central Region of Ghana. *Malaria Journal*. https://doi.org/10.1186/s12936-021-03985-8

16. 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

17. 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

18. Xinghao Jiang, Shijie Liu, Yaoqun Wang, Ruonan Zhang, **Yeboah Kwaku Opoku**, Yinzhuo Xie, Deshan Li, Guiping Ren (2020). Fibroblast growth factor 21: a novel long-acting hypoglycemic drug for canine diabetes. *Naunyn-Schmiedeberg s Archives of Pharmacology*. https://doi.org/10.1007/s00210-020-02023-9

19. **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

20. **YK Opoku**, Justice Afrifa (2020). Fibroblast growth factor−21 ameliorates rheumatoid arthritis by maintaining articular integrity. *International Journal of Peptide Research and Therapeutics*. https://doi.org/10.1007/s10989-019-09872-w

21. **YK Opoku**, Justice Afrifa (2020). Therapeutic role of fibroblast growth factor 21 (FGF21) in the amelioration of chronic diseases. *International Journal of Peptide Research and Therapeutics*. https://doi.org/10.1007/s10989-019-09820-8

22. Samuel Essien-Baidoo, Dorcas Obiri-Yeboah, **Yeboah Kwaku Opoku**, Elvis Ayamga, Kevin Hodi Zie, Daniel Attoh, Evans Obboh, Anna Hayfron Benjamin, Justice Afrifa (2019). ART Regimen and Other Sociodemographics Do Not Affect Cytokine Expression in HIV Patients in Ghana. *Canadian Journal of Infectious Diseases and Medical Microbiology*. https://doi.org/10.1155/2019/2730370

23. Justice Afrifa, Felix A. Botchway, **Yeboah Kwaku Opoku**, Joyce Badohu, Henrietta Ekua Ocran, Kwame Kumi Asare, Samuel Essien-Baidoo (2019). Assessment of cardiovascular risk in post-menopausal women in Ghana. *F1000Research*. https://doi.org/10.12688/f1000research.19447.1

24. Kwame Kumi Asare, **Yeboah Kwaku Opoku**, Alberta Serwah Anning, Justice Afrifa, Eric Ofori Gyamerah (2019). Case Report: A case of dipylidiasis in a first-trimester pregnant woman attending a routine antenatal clinic at Elmina health centre, Ghana. *F1000Research*. https://doi.org/10.12688/f1000research.19081.1

25. Justice Afrifa, **Yeboah Kwaku Opoku**, Eric Ofori Gyamerah, George Ashiagbor, Rosemary Doe Sorkpor (2019). The Clinical Importance of the Mercury Problem in Artisanal Small-Scale Gold Mining. *Frontiers in Public Health*. https://doi.org/10.3389/fpubh.2019.00131

26. **Yeboah Kwaku Opoku** (2018). A novel fusion protein attenuates collagen−induced arthritis by targeting interleukin 17A and tumor necrosis factor α. *International journal of pharmaceutics*. https://www.sciencedirect.com/science/article/pii/S0378517318303673

27. **Yeboah Kwaku Opoku** (2018). Ameliorative effects of a fusion protein dual targeting interleukin 17A and tumor necrosis factor α on imiquimod-induced psoriasis in mice. *Biomedicine & Pharmacotherapy*. https://www.sciencedirect.com/science/article/pii/S0753332218352211

28. 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

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. **Yeboah Kwaku Opoku** (2018). The sterategic role of fibroblast growth factor-21in obesity. *Pakistan Journal of Biotechnology*. https://pjbt.org/index.php/pjbt/article/view/389

32. Godwin Kwakye-Nuako, Johnson Nyarko Boampong, Mark Kweku Dong, Dorcas Obiri-Yeboah, **Yeboah Kwaku Opoku**, Daniel Amoako-Sakyi, Kwame Kumi Asare (2016). Modulation of cyptosporidiosis by CD4 levels in chronic diarrhoea HIV/AIDS individuals visiting Tarkwa Municipal hospital, Ghana. *Asian Pacific Journal of Tropical Disease*. https://doi.org/10.1016/s2222-1808(16)61127-1