Godwin Kwakye-Nuako

Senior Lecturer · Biomedical Sciences
University of Cape Coast

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RESEARCH

Interests	Infectious Diseases · Parasitology · NTDs · Medical Microbiology
Areas	Public Health, Environmental and Occupational Health · Epidemiology · Parasitology · Infectious Diseases · Insect Science · Endocrinology

RESEARCH SUMMARY

47	836	13	16	1.28	9%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 47 publications listed below, 2007–2026. Field-weighted impact is the mean over the 33 works scored for it; 1.00 is the world average for works of the same field, type and year. 3 of the 33 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Adjunct Assistant Professor 2021–present
Department of Internal Medicine, The University of Iowa, Carver College of Medicine, Iowa City, United States

Head of Department 2020–present
Department of Biomedical Sciences, University of Cape Coast, Cape Coast, Ghana

Lecturer and Problem Based Learning (PBL) Coordinator 2010–present
Biomedical Sciences, School of Allied Health Sciences, College of Health and Allied Sciences, University of Cape Coast, Cape Coast, Ghana

Head of Department 2020–2022
Department of Biomedical Sciences, University of Cape Coast, Cape Coast, Ghana

Senior Research Associate 2004–2009
Microbiology, University of Ghana Medical School, Accra, Ghana

EDUCATION AND QUALIFICATIONS

BSc
Biological Sciences, University of Cape Coast, Cape Coast, Ghana

PhD 2012–2016
Faculty of Health and Medicine, Biomedical and Life Sciences,, Lancaster University, UK, Lancaster, United Kingdom

MSc 2012–2014
Biomedical and Life Sciences, Faculty of Health and Medicine, Lancaster University, Lancaster, United Kingdom

MPhil 2005–2007
Microbiology, University of Ghana Medical School, Accra, Ghana

DISTINCTIONS, MEMBERSHIPS AND SERVICE

Award 2018
University of Iowa, Carver College of Medicine Departments of Internal Medicine, Microbiology and Immunology, and the Veterans' Affairs Medical Center, Fulbright Scholar, Iowa, United States

Award 2018
Berhnard Nocht Institute for Tropical Medicine, TWAS-DFG Fellowship, Hamburg, Germany

Award 2012
Division of Biomedical and Life Sciences, Lancaster University, Faculty of Health and Medicine Studentship (PhD study), Lancaster, United Kingdom

Award
Bernhard Nocht Institute of Tropical Medicine, DAAD Fellowship - Research Stays for University Academics and Scientists, Hamburg, Germany

The Gnatwork
Pirbright/London, United Kingdom

Royal Society of Tropical Medicine and Hygiene
London, United Kingdom

American Society of Tropical Medicine and Hygiene
Oakbrook Terrace, United States

VALIDATE, Oxford University
Oxford, United Kingdom

International Society for Infectious Diseases
Brookline, United States

British Society for Parasitology
Bedford, United Kingdom

PUBLICATIONS

Journal articles 41

1. Samuel A. Akwetey, Standford Kwenda, Humphrey P. K. Addy, Ebenezer Foster Nyarko, Elvis Fiam, Elvis Quansah, Irene E. Donkor, Desmond O. Acheampong, **Godwin Kwakye-Nuako**, Mohammed R. Abdullah, Sven Hammerschmidt, Arshad Ismail, Richael O. Mills (2026). Genomic surveillance of post-immunization pneumococcal carriage in Ghana. *Microbial Genomics*. https://doi.org/10.1099/mgen.0.001734
2. **Godwin Kwakye-Nuako**, Caitlyn E. Middleton, Laura-Isobel McCall (2024). Small molecule mediators of host-T. cruzi-environment interactions in Chagas disease. *PLoS Pathogens*. https://doi.org/10.1371/journal.ppat.1012012
3. Hatim Almutairi, Michael D. Urbaniak, Michelle D. Bates, **Godwin Kwakye-Nuako**, Waleed S. Al-Salem, Rod J. Dillon, Paul A. Bates, Derek Gatherer (2023). Chromosome-Scale Assembly of the Complete Genome Sequence of Leishmania (Mundinia) procaviensis Isolate 253, Strain LV425. *Microbiology Resource Announcements*. https://doi.org/10.1128/mra.01306-22
4. **Godwin Kwakye-Nuako**, Mba-Tihssommah Mosore, Daniel Boakye, Paul A. Bates (2023). Description, Biology, and Medical Significance of Leishmania (Mundinia) Chancei n. sp. (Kinetoplastea: Trypanosomatidae) from Ghana and Leishmania (Mundinia) Procaviensis n. sp. (Kinetoplastea: Trypanosomatidae) from Namibia. *Journal of Parasitology*. https://doi.org/10.1645/22-53
5. **Godwin Kwakye-Nuako** (2023). Description, biology, and medical significance of Leishmania (Mundinia) chancei n. sp.(Kinetoplastea: Trypanosomatidae) from Ghana and Leishmania (Mundinia) procaviensis n. sp .... *The Journal of parasitology*. https://journal-of-parasitology.kglmeridian.com/view/journals/para/109/1/article-p43.xml

6. Seth Offei Addo, Emmanuel Kwame Amoako, Ronald Essah Bentil, Bright Agbodzi, Mba-tihssommah Mosore, Clara Yeboah, Naiki Attram, John Asiedu Larbi, **Godwin Kwakye-Nuako**, Dziedzom K. de Souza, Michael David Wilson, Daniel Adjei Boakye (2023). Detection of Leishmania DNA in Phlebotomine Sand Flies in Tsatee, a Community in the Volta Region, Ghana. *BioMed Research International*. https://doi.org/10.1155/2023/1963050

7. Comfort Yeboaa, Hayford Odoi, Rhoda Owusu Ntim, Yaw Duah Boakye, **Godwin Kwakye-Nuako**, Christian Agyare, Vivian Etsiapa Boamah, Kingsley Badu (2023). Diversity and antibiograms of bacteria isolated from cutaneous leishmaniasis wounds in the Nkwanta South District of Ghana. *Archives of Microbiology*. https://doi.org/10.1007/s00203-023-03411-4

8. Juliana Attoh, Enoch Aninagyei, **Godwin Kwakye-Nuako**, Mavis Dakorah Puopelle, Isaac Tukwarlba, Justice Afrifa, Desmond Omane Acheampong (2022). Immunochromatographic and microscopic detection of Plasmodium falciparum in recipients of P. falciparum-infected donor blood. *Parasitology Research*. https://doi.org/10.1007/s00436-022-07476-w

9. Daniel Amoako-Sakyi, Dorcas Obiri-Yeboah, Anthony Ofosu, Kwadwo Asamoah Kusi, Kingsley Osei, Richard Adade, Ebenezer Aniakwaa-Bonsu, Reginald Quansah, John Arko-Mensah, Brodrick Yeboah Amoah, **Godwin Kwakye-Nuako**, Eric Yaw Frimpong, Mariama Combasseré-Cherif, Hidaya Mohammed, Boubacar Maiga, Julius Fobil, Isabella Quakyi, Ben A. Gyan (2022). Preponderance of vaccine-preventable diseases hotspots in northern Ghana: a spatial and space-time clustering analysis from 2010 to 2014. *BMC Public Health*. https://doi.org/10.1186/s12889-022-14307-1

10. Dominic Nkwantabisa Kuma, Alex Boye, **Godwin Kwakye-Nuako**, Yaw Duah Boakye, Justice Kwaku Addo, Ernest Amponsah Asiamah, Eugene Agyei Aboagye, Orleans Martey, Mainprice Akuoko Essuman, Victor Yao Atsu Barku (2022). Wound Healing Properties and Antimicrobial Effects of Parkia clappertoniana Keay Fruit Husk Extract in a Rat Excisional Wound Model. *BioMed Research International*. https://doi.org/10.1155/2022/9709365

11. Samuel Addo Akwetey, Ernest Oduro-Kwarteng, Priscilla Ocran, Kumi Nana Anokye, Allswell Donkor, Priscilla Abena Ankamaa Opare, Desmond Omane Acheampong, **Godwin Kwakye-Nuako** (2021). Bacteriological Quality of Potable Water Consumed in Cape Coast and Takoradi Metropolis, Ghana. *Microbiology Research Journal International*. https://doi.org/10.9734/mrji/2021/v31i430314

12. Hatim Almutairi, Michael D. Urbaniak, Michelle D. Bates, **Godwin Kwakye-Nuako**, Waleed S. Al-Salem, Rod J. Dillon, Paul A. Bates, Derek Gatherer (2021). Chromosome-Scale Assembly of the Complete Genome Sequence of Leishmania (Mundinia) sp. Ghana, Isolate GH5, Strain LV757. *Microbiology Resource Announcements*. https://doi.org/10.1128/mra.00591-21

13. Hatim Almutairi, Michael D. Urbaniak, Michelle D. Bates, Narissara Jariyapan, **Godwin Kwakye-Nuako**, Vanete Thomaz Soccol, Waleed S. Al-Salem, Rod J. Dillon, Paul A. Bates, Derek Gatherer (2021). Chromosome-scale genome sequencing, assembly and annotation of six genomes from subfamily Leishmaniinae. *Scientific Data*. https://doi.org/10.1038/s41597-021-01017-3

14. Enoch Aninagyei, Patrick Adu, Tanko Rufai, Paulina Ampomah, **Godwin Kwakye-Nuako**, Alexander Egyir-Yawson, Desmond Omane Acheampong (2021). Effect of Asymptomatic Plasmodium falciparum Parasitaemia on Platelets Thrombogenicity in Blood Donors. *Indian Journal of Hematology and Blood Transfusion*. https://doi.org/10.1007/s12288-020-01390-w

15. Hatim Almutairi, Michael D. Urbaniak, Michelle D. Bates, Narissara Jariyapan, **Godwin Kwakye-Nuako**, Vanete Thomaz-Soccol, Waleed S. Al-Salem, Rod J. Dillon, Paul A. Bates, Derek Gatherer (2021). LGAAP: Leishmaniinae Genome Assembly and Annotation Pipeline. *Microbiology Resource Announcements*. https://doi.org/10.1128/mra.00439-21

16. Victoria Klutse, Samuel Addo Akwetey, Priscilla Abena Ankamaa Opare, **Godwin Kwakye-Nuako** (2021). The Potential Risk of the Used Thaumatococcus danielli (Benn) Leaves in Food Packaging Process in Transmission of Antibiotic Resistant Pathogens in Ghana. *International Journal of TROPICAL DISEASE & Health*. https://doi.org/10.9734/ijtdh/2021/v42i630463

17. Edna Dzifa Doe, **Godwin Kwakye-Nuako**, Alexander Egyir-Yawson (2020). Identification of Blood Meal of Sand Flies in a Cutaneous Leishmaniasis Endemic Area, Volta Region-Ghana. *American Journal of Biomedical and Life Sciences*. https://doi.org/10.11648/j.ajbls.20200804.12

18. Edna Dzifa Doe, **Godwin Kwakye-Nuako**, Seth Offei Addo, Alexander Egyir-Yawson (2020). Identification of Sand Flies (Diptera: Psychodidae) Collected from Cutaneous Leishmaniasis Endemic Focus in the Ho Municipality, Ghana. *International Annals of Science*. https://doi.org/10.21467/ias.10.1.33-44

19. P. Opare, S.A. Addo, J.C. Silva, **G. Kwakye-Nuako** (2020). Identification of coccidian isolates pathogenic to humans in sources of potable water in Cape Coast Metropolis, Ghana. *International Journal of Infectious Diseases*. https://doi.org/10.1016/j.ijid.2020.09.1117

20. Alberta S. Anning, Arnold A. Dugbatey, **Godwin Kwakye-Nuako**, Kwame K. Asare (2019). Antibiotic Susceptibility Pattern of Enterobacteriaceae Isolated from Raw Meat and Ghanaian Coin Currencies at Cape Coast Metropolis, Ghana: The Public Health Implication. *The Open Microbiology Journal*. https://doi.org/10.2174/1874285801913010138

21. Alberta Serwah Anning, **Godwin Kwakye-Nuako**, Elvis Ofori Ameyaw, Mba-Tihssommah Mosore, Kwame Kumi Asare (2019). In vitro activity of Erythrophleum ivorense extract against the promastigote stage of cutaneous Leishmania parasite, a member of Leishmania (Mundinia) enriettii complex isolates from Ghana. *Access Microbiology*. https://doi.org/10.1099/acmi.0.000050

22. Alexander Egyir-Yawson, **G Kwakye-Nuako** (2019). Knowledge, attitude and practices related to cutaneous leishmaniasis in endemic communities in the Volta region of Ghana. *Int J Healthc Sci*. https://ir.ucc.edu.gh/server/api/core/bitstreams/12756602-8dde-4b50-9a93-4f5fbdd0fdb6/content

23. Samuel Kyei, Raphael Mensah, **Godwin Kwakye-Nuako**, EmmanuelKwasi Abu (2019). Microbial Contamination of Topical Therapeutic Ophthalmic Medications in Cape Coast Metropolis, Ghana. *Nigerian Journal of Ophthalmology*. https://doi.org/10.4103/njo.njo_38_18

24. Alberta S Anning, **Godwin Kwakye-Nuako**, Kwame K Asare (2019). NAOSITE: Nagasaki University's Academic Output SITE. *Open Microbiology Journal*. https://scholar.google.com/scholar?cluster=3646599852990099420&hl=en&oi=scholarr

25. Prince Amoah Barnie, Samuel Addo Akwetey, Murjana Hussein Swallah, Desmond Omane Acheampong, **Godwin Kwakye-Nuako** (2019). OCCURRENCE AND DISTRIBUTION OF BACTERIAL UROPATHOGENS AMONG ANTIRETROVIRAL THERAPY USERS AND NON-USERS, CAPE COAST TEACHING HOSPITAL. *Canadian Journal of Applied Science and Technology - Canadian Journal of Applied Science and Technology*.

26. Desmond Acheampong, Richard Opoku, Alex Boye, Daniel Agyirifo, Isaac Dadzie, Prince Barnie, **Godwin Kwakye-Nuako**, Francis Nyandzi (2018). Diagnosis and Treatment Outcome of Smear Positive Pulmonary Tuberculosis: Retrospective study in Kpando Municipal, Ghana. *Journal of Advances in Medicine and Medical Research*. https://doi.org/10.9734/jammr/2018/40156

27. Desmond O. Acheampong, Michael K. Afoakwah, Alex Boye, Richard Opoku, **Godwin Kwakye-Nuako**, Christian K. Adokoh, Samuel A. Baafi, Daniel Somuah (2018). Evaluation of Diagnostic Methods and Antimicrobial Susceptibility Pattern of Asymptomatic Bacteriuria Among Pregnant Women in Ashanti Region, Ghana. *Journal of Exploratory Research in Pharmacology*. https://doi.org/10.14218/jerp.2018.00003

28. Dorcas Obiri-Yeboah, Faustina Pappoe, Ibrahim Baidoo, Francis Arthur, Anna Hayfron-Benjamin, Samuel Essien-Baidoo, **Godwin Kwakye-Nuako**, Stephen Ayisi Addo (2018). Immunologic and virological response to ART among HIV infected individuals at a tertiary hospital in Ghana. *BMC Infectious Diseases*. https://doi.org/10.1186/s12879-018-3142-5

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. Alexander Kwarteng, Samuel Terkper Ahuno, **Godwin Kwakye-Nuako** (2017). The therapeutic landscape of HIV-1 via genome editing. *AIDS Research and Therapy*. https://doi.org/10.1186/s12981-017-0157-8

31. **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

32. **Godwin Kwakye-Nuako**, Mba-Tihssommah Mosore, Christopher Duplessis, Michelle D. Bates, Naiki Puplampu, Israel Mensah-Attipoe, Kwame Desewu, Godwin Afegbe, Richard H. Asmah, Manal B. Jamjoom, Patrick F. Ayeh-Kumi, Daniel A. Boakye, Paul A. Bates (2015). First isolation of a new species of Leishmania responsible for human cutaneous leishmaniasis in Ghana and classification in the Leishmania enriettii complex. *International Journal for Parasitology*. https://doi.org/10.1016/j.ijpara.2015.05.001

33. **Godwin Kwakye-Nuako** (2014). First isolation of Leishmania from Northern Thailand: case report, identification as Leishmania martiniquensis and phylogenetic position within the Leishmania enriettii complex. *PLoS neglected tropical diseases*. https://doi.org/10.1371/journal.pntd.0003339

34. Kwame Kumi Asare, Johnson Nyarko Boampong, Elvis Ofori Ameyaw, Ama Kyeraa Thomford, Richmond Afoakwah, **Godwin Kwakye-Nuako**, Kwesi Prah Thomford, Neils Ben Quashie (2014). Microscopic identification of possible Clonorchis/Opisthorchis infection in two Ghanaian women with undiagnosed abdominal discomfort: two case reports. *Journal of Medical Case Reports*. https://doi.org/10.1186/1752-1947-8-369

35. Margaret A. Kweku, Shirley Odoom, Naiki Puplampu, Kwame Desewu, **Godwin Kwakye Nuako**, Ben Gyan, Greg Raczniak, Karl C. Kronmann, Kwadwo Koram, Silvia Botero, Daniel Boakye, Hannah Akuffo (2011). An outbreak of suspected cutaneous leishmaniasis in Ghana: lessons learnt and preparation for future outbreaks. *Global Health Action*. https://doi.org/10.3402/gha.v4i0.5527

36. **G. Kwakye-Nuako** (2010). Leishmania aethiopica: The unusual etiologic agent of cutaneous leishmaniasis in Ho District of the Volta region of Ghana. *International Journal of Infectious Diseases*. https://doi.org/10.1016/j.ijid.2010.02.592

37. **G Kwakye-nuako**, P.B Borketey, I Mensah-attipoe, R.H Asmah, P.F Ayeh-kumi (2010). Sachet drinking water in accra: the potential threats of transmission of enteric pathogenic protozoan organisms. *Ghana Medical Journal*. https://doi.org/10.4314/gmj.v41i2.55303

38. **G Kwakye-Nuako**, D Amoako-Sakyi, Dorcas Obiri-Yeboah (2010). Toxoplasmosis in Ghana: seroprevelance study in the coastal population. *International society for infectious diseases*. https://ir.ucc.edu.gh/server/api/core/bitstreams/86f8b05c-198f-4f74-9faf-b3d7f7be4e71/content

39. PF Ayeh-Kumi, S Quarcoo, **Godwin Kwakye-Nuako**, JP Kretchy, A Osafo-Kantanka, S Mortu (2009). Prevalence of Intestinal Parasitic Infections among Food Vendors in Accra, Ghana.

40. Akua Obeng Forson, **G Kwakye-Nuako** (2007). Pathogenic parasitic microbes associated with fresh vegetables consumed in Accra. *Ghana J Allied Health Sciences*. https://scholar.google.com/scholar?cluster=7202214782281996104&hl=en&oi=scholarr

41. **G Kwakye-Nuako** (2007). Sachet drinking water in Accra: the potential threats of transmission of enteric pathogenic protozoan organisms. *Ghana medical journal*.

Conference papers 5

1. Priscilla Abena Ankamaa Opare, **Godwin Kwakye-Nuako** (2021). INCRIMINATING CULICOIDES BITING MIDGES AS VECTORS OF HUMAN CUTANEOUS LEISHMANIASIS IN GHANA AND VALIDATION OF STANDARD LIGHT TRAPS AGAINST EXPLICIT HUMAN BITING RATES. *AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE*. https://scholar.google.com/scholar?cluster=17161632364418254454&hl=en&oi=scholarr

2. **Godwin Kwakye-Nuako**, PAA Opare, SO Addo (2021). PRELIMINARY BLOOD MEAL ANALYSIS OF CULICOIDES SPECIES IN LEISHMANIA (MUNDINIA) ENRIETTII COMPLEX-ENDEMIC REGION IN GHANA. *AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE*. https://scholar.google.com/scholar?cluster=11616175970103024043&hl=en&oi=scholarr

3. **Godwin Kwakye-Nuako**, Christian Kweku Adokoh (2019). IN VITRO ANTI-LEISHMANIAL ACTIVITY OF UNRIPE LIME OIL AGAINST LEISHMANIA MAJOR. *AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE*. https://scholar.google.com/scholar?cluster=10397913875133770789&hl=en&oi=scholarr

4. **Godwin Kwakye-Nuako**, PA Opare (2019). New Leishmania species and its potential new vector, responsible for cutaneous leishmaniasis in Southeastern Ghana. *AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE*. https://scholar.google.com/scholar?cluster=10844290635390368962&hl=en&oi=scholarr

5. John A Larbi, **Godwin Kwakye-Nuako** (2017). PHLEBOTOMINE SAND FLIES (DIPTERA: PSYCHODIDAE) AS POTENTIAL VECTORS OF LEISHMANIA PARASITES IN TSATEE, A NEW ENDEMIC COMMUNITY, VOLTA REGION. *AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE*. https://scholar.google.com/scholar?cluster=18304870821896587522&hl=en&oi=scholarr

Theses 1

1. **Godwin Kwakye-Nuako** (2016). Investigation of a New Focus of Cutaneous Leishmaniasis in Ghana. *PQDT-UK & Ireland*. https://search.proquest.com/openview/406d5e52321b8f2c636b492d8d330039/1?pq-origsite=gscholar&cbl=51922