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RESEARCH

Interests: Hematological malignancies · Cancer Biology and Immunology · Haemoglobinopathies · Infections in

Areas: Hematology · Public Health, Environmental and Occupational Health · Biomedical Engineering · Genetics · Pediatrics, Perinatology and Child Health · Physiology

RESEARCH SUMMARY

26	105	4	3	0.52	0%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 26 publications listed below, 2016–2026. Field-weighted impact is the mean over the 23 works scored for it; 1.00 is the world average for works of the same field, type and year. 0 of the 23 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer 2011–present
Medical Diagnostics, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Tutor 2010–2011
Medical Laboratory Technology, DOSONEC Health Care Institute, Kumasi, Ghana

Biomedical Scientist 2005–2010
Clinical Laboratory Unit, Sickle Cell Disease Foundation, Kumasi, Ghana

Biomedical Scientist 2003–2011
Haematology, Komfo Anokye Teaching Hospital, Kumasi, Ghana

Demonstrator 2003–2009
Medical Laboratory Technology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

PUBLICATIONS

Journal articles 25

1. Allwell A. Ayirebi, Stephen Twumasi, Linda K. Olaga, **Benedict Sackey**, Daniel N. M. Antonio, Richard O. Ansah, Eugene A. Ansah, John A. Sah, Enoch O. Anto, Yvonne Anang-Quartey, Antoinette Koomson, Angela Opoku, Godfred A. Donkor, Paulina Duah, Ama G. Boadu, Samuel Essien-Baidoo, Wina I. O. Boadu, Lilian A. Boateng (2026). Acute and Chronic Leukemia in Sub-Saharan Africa: A Systematic Review. *Cancer Reports*. https://doi.org/10.1002/cnr2.70635
2. Addae, Ebenezer Kojo, Awortwe-Quaicoe, Theophilus, **Sackey, Benedict**, Ansah, Richard Owusu, Larbi, Richard, Dazangapai, Kinako Denis Elia, Frimpong, James Opoku, Amoako, Thelma Owusuaa Ofori, Asamoah, Alexander, Ayisi-Boateng, Nana, Nkrumah, Bernard, Bekoe, Franklin Asiedu, Owusu, Michael

(2026). Additional file 1 of Evaluating the diagnostic performance of miLab™ for detection of malaria parasites using nPCR as reference standard. *Figshare*. https://doi.org/10.6084/m9.figshare.31374822.v1

3. Addae, Ebenezer Kojo, Awortwe-Quaicoe, Theophilus, **Sackey, Benedict**, Ansah, Richard Owusu, Larbi, Richard, Dazangapai, Kinako Denis Elia, Frimpong, James Opoku, Amoako, Thelma Owusuaa Ofori, Asamoah, Alexander, Ayisi-Boateng, Nana, Nkrumah, Bernard, Bekoe, Franklin Asiedu, Owusu, Michael (2026). Additional file 2 of Evaluating the diagnostic performance of miLab™ for detection of malaria parasites using nPCR as reference standard. *Figshare*. https://doi.org/10.6084/m9.figshare.31374825
4. Addae, Ebenezer Kojo, Awortwe-Quaicoe, Theophilus, **Sackey, Benedict**, Ansah, Richard Owusu, Larbi, Richard, Dazangapai, Kinako Denis Elia, Frimpong, James Opoku, Amoako, Thelma Owusuaa Ofori, Asamoah, Alexander, Ayisi-Boateng, Nana, Nkrumah, Bernard, Bekoe, Franklin Asiedu, Owusu, Michael (2026). Additional file 3 of Evaluating the diagnostic performance of miLab™ for detection of malaria parasites using nPCR as reference standard. *Figshare*. https://doi.org/10.6084/m9.figshare.31374828
5. Addae, Ebenezer Kojo, Awortwe-Quaicoe, Theophilus, **Sackey, Benedict**, Ansah, Richard Owusu, Larbi, Richard, Dazangapai, Kinako Denis Elia, Frimpong, James Opoku, Amoako, Thelma Owusuaa Ofori, Asamoah, Alexander, Ayisi-Boateng, Nana, Nkrumah, Bernard, Bekoe, Franklin Asiedu, Owusu, Michael (2026). Additional file 4 of Evaluating the diagnostic performance of miLab™ for detection of malaria parasites using nPCR as reference standard. *Figshare*. https://doi.org/10.6084/m9.figshare.31374831
6. John Agyemang Sah, Stephen Twumasi, Allwell Adofo Ayirebi, **Benedict Sackey**, Enoch Odame Anto, Richard Vikpebah Duneeh, Ebenezer Senu, Veronica Barnor, David Boakye, Daniel Nii Martey Antonio, Wina Ivy Ofori Boadu (2026). Assessing Liver and Iron Markers in Steady State Pediatric SCD Patients to Ascertain the Hepatic Consequences of Hemotransfusion: A Case-Control Study in Ghana. *Health Science Reports*. https://doi.org/10.1002/hsr2.72090
7. Ebenezer Kojo Addae, Theophilus Awortwe-Quaicoe, **Benedict Sackey**, Richard Owusu Ansah, Richard Larbi, Kinako Denis Elia Dazangapai, James Opoku Frimpong, Thelma Owusuaa Ofori Amoako, Alexander Asamoah, Nana Ayisi-Boateng, Bernard Nkrumah, Franklin Asiedu Bekoe, Michael Owusu (2026). Evaluating the diagnostic performance of miLab™ for detection of malaria parasites using nPCR as reference standard. *Malaria Journal*. https://doi.org/10.1186/s12936-026-05801-7
8. Allwell Adofo Ayirebi, Wina Ivy Ofori Boadu, Stephen Twumasi, Samuel Kwarteng, **Benedict Sackey**, Lilian Antwi Boateng, Joseph Boachie, Samuel Essien-Baidoo, Daniel Nii Martey Antonio, John Agyemang Sah, Afua Marfowaa, Mayfair Adwapa Mpiani, Joachim Baba Domosie, Abiba Khalifah, Emmanuel Ekow Korsah, Ebenezer Senu, Eugene Arele Ansah, Joseph Yorke, Enoch Odame Anto (2026). Neutrophil Gelatinase-Associated Lipocalin and Neutrophil-to-Lymphocyte Ratio as Indicators of Nephropathy in Type 2 Diabetic Mellitus Patients in Ghana: A Case-Control Study. *Health Science Reports*. https://doi.org/10.1002/hsr2.71939
9. Francis Agyei Amponsah, Benedicta Serwaa Obeng, Otchere Addai-Mensah, Lilian Antwi Boateng, **Benedict Sackey**, Isaac Acheampong, Prince Adoba, Edward Yaw Afriyie, Anthony Dwamena, Samuel Kwasi Appiah, Philip Amo-Kodieh, Felicia Broni Nartey (2026). Rapid Measurement of Erythrocyte Sedimentation Rate Using a Tube Positioned at a 45° Angle Compared With the Westergren Reference Method. *BioMed Research International*. https://doi.org/10.1155/bmri/8860256
10. Andrew Evans Cobbinah, **Benedict Sackey**, Mina Ofosu, Herbert Ekoe Dankluvi, Stephen Opoku, Ampa Davis Frank (2025). Blood storage effect of G6PD on RBC quality. *Hematology Transfusion and Cell Therapy*. https://doi.org/10.1016/j.htct.2025.103733
11. Herbert Ekoe Dankluvi, Enoch Odame Anto, **Benedict Sackey**, Ebenezer Senu, Elikplim Adzo Damalie, Millicent Osaah, Ellis Fleischer Djoleto, Edward Dassah, Charles Mawunyo Senaya, Francis Jojo Moses Kwadzo Damalie (2025). Fibrinogen and cytokines as biomarkers of ovarian hyperstimulation syndrome in women undergoing assisted reproductive technology treatment: A prospective cohort study. *Journal of International Medical Research*. https://doi.org/10.1177/03000605251394136
12. Stephen Twumasi, Enoch Odame Anto, Christian Obirikorang, Richard Kobina Dadzie Ephraim, **Benedict Sackey**, Vivian Paintsil, Richard Owusu Ansah, Alfred Effah, Allwell Adofo Ayirebi, Angela Opoku, Godfred Yawson Scott, Leslie Osei, Joyce Duku, Emmanuel Asafo Adjei, Lilian Antwi Boateng (2025). Neutrophil gelatinase-associated lipocalin and fibrinogen-to-albumin ratio are indicators of kidney disease in sickle

cell disease patients with microalbuminuria: a multicentre case-control study in Ghana. *BMC Nephrology*. https://doi.org/10.1186/s12882-025-04427-2

13. Francis Agyei Amponsah, Otchere Addai-Mensah, Lilian Antwi-Boateng, **Benedict Sackey**, Richard Vikpebah Duneeh, Isaac Acheampong, Prince Adoba, Diana Venunye Ama Awi, Edward Yaw Afriyie, Richard Boateng, Abrafi Ayerakwa Anokye, Veronica Agyemang, Samuel Kofi Doe, Samuel Kwasi Appiah (2025). Serum Anti-Erythropoietin Autoantibodies and Their Association With Younger Age in Paediatric Malaria Cases. *BioMed Research International*. https://doi.org/10.1155/bmri/8845434

14. Richard Vikpebah Duneeh, Wina Ivy Ofori Boadu, Lois Tekutey Narh, Joseph Frimpong, Abdul-Wahab Mawuko, John Gameli Deku, Kofi Mensah, Charles Nkansah, Samuel Kwasi Appiah, Felix Osei Boakye, Enoch Odame Anto, Lilian Antwi Boateng, **Benedict Sackey**, Otchere Addai-Mensah (2024). Anaemia during pregnancy: a cross-sectional study of antenatal attendants at the Madina Pentecost Hospital, La Nkwantanang Municipality, Ghana. *Cogent Public Health*. https://doi.org/10.1080/27707571.2024.2353776

15. Ezekiel B. Ackah, Michael Owusu, **Benedict Sackey**, Justice K. Boamah, Japhet S. Kamasah, Albert A. Aduboffour, Debora Akortia, Gifty Nkrumah, Andrews Amaniampong, Nicholas Klevor, Lawrence D. Agyemang, Nana K. Ayisi-Boateng, Augustina Sylverken, Richard O. Phillips, Ellis Owusu-Dabo (2024). Haematological Profile and ACE2 Levels of COVID-19 Patients in a Metropolis in Ghana. *COVID*. https://doi.org/10.3390/covid4020011

16. Ganiwu Abdul, William Osei-Wusu, Gordon Akuffo Asare, Samira Daud, Stephen Opoku, Valentine Christian Kodzo Tsatsu Tamakloe, Joseph Frimpong, **Benedict Sackey**, Wina Ivy Ofori Boadu, Vivian Paintsil, Max Efui Annani-Akollor, Yaw Amo Wiafe, Enoch Odame Anto, Otchere Addai-Mensah (2023). Biomarkers of oxidative stress and its nexus with haemoglobin variants and adverse foeto-maternal outcome among women with preeclampsia in a Ghanaian population: A multi-centre prospective study. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0283638

17. Selina Mintaah, Enoch Odame Anto, Wina Ivy Ofori Boadu, **Benedict Sackey**, Lilian Antwi Boateng, Ezekiel Ansah, Emmanuel Ekow Korsah, Joseph Frimpong, Valentine Christian Kodzo Tsatsu Tamakloe, Peter Kuugemah Selleh and 12 others (2023). Coagulation Factors and Natural Anticoagulants as Surrogate Markers of Preeclampsia and Its Subtypes: A Case–Control Study in a Ghanaian Population. *Clinical and Applied Thrombosis/Hemostasis*. https://doi.org/10.1177/10760296231204604

18. Peter K. Selleh, Enoch O. Anto, Wina I. O. Boadu, **Benedict Sackey**, Lilian A. Boateng, Charles Nkansah, Frederick Nsafoah, Abdul R. Saasi, Selina Mintaah, Yaw A. Wiafe, Charles Derigubah, Emmanuel E. Korsah, Joseph Frimpong, Ezekiel Ansah, Valentine C. K. T. Tamakloe, Patrick Adu, Joseph Boachie, Otchere Addai-Mensah (2023). Quality of glycemic control in type 2 diabetes mellitus (T2DM) and its association with markers of coagulation and inhibitors of fibrinolysis: A case–control study in the Upper West Region, Ghana. *Health Science Reports*. https://doi.org/10.1002/hsr2.1297

19. David Ntiamoah Ofosu, Opoku Samuel Benfield, Mohammed Adams, Christopher Nkrumah, Alexander Asamoah, Michael Kusi Addai, Bright Afriyie Owusu, Emmanuel Owusu, Yeboah Marfo-Debrekyei, William Addo Mills-Pappoe, **Benedict Sackey** (2022). Assessing malaria staining practices with Giemsa for malaria microscopy; a case of selected laboratory facilities in the Ashanti region of Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01133

20. **B Sackey** (2022). Extracellular vesicles and PD-L1 suppress macrophages, inducing therapy resistance in TP53-deficient B-cell malignancies. *Blood, The Journal of the American Society of Hematology*. https://ashpublications.org/blood/article-abstract/139/25/3617/484504

21. Ama Gyasiwaah Owusu-Poku, Daniel Gyamfi, Eliezer Togbe, Stephen Opoku, Richard Kobina Dadzie Ephraim, Jocelyn Gyapomaa Asibey, **Benedict Sackey**, Wina Ivy Ofori Boadu, Max Efui Annani-Akollor, Enoch Odame Anto, Otchere Addai-Mensah (2022). Interplay between foetal haemoglobin, micronutrients and oxidative stress biomarkers in sickle cell anaemia children. *Human Nutrition & Metabolism*. https://doi.org/10.1016/j.hnm.2022.200173

22. Nembot Fogang Brice Armel, David Ofosu Ntiamoah, Gordon Asare Akuffo, Selina Mintaah, Michael Owusu, **Benedict Sackey**, Lilian Antwi-Boateng, Ganiwu Abdul, Max Annani-Akollor, Eddie-Williams Owiredu, Alexander Yaw Debrah, Otchere Addai-Mensah (2021). Coagulation abnormalities in childhood

acute lymphoblastic leukemia: assessing the impact of L-asparaginase therapy in Ghana. *Thrombosis Journal*. https://doi.org/10.1186/s12959-021-00297-4

23. Gabriel Abbam, Samuel Tandoh, Mary Tetteh, David Amoah Afrifah, Max Efui Annani-Akollor, Eddie-Williams Owiredu, Charles Gyasi, Constance Adu-Gyamfi, **Benedict Sackey**, Alexander Yaw Debrah, Otchere Addai-Mensah (2021). Reference intervals for selected haematological and biochemical parameters among apparently healthy adults in different eco-geographical zones in Ghana. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0245585

24. **B Sackey** (2018). DNA Damage-Response Pathway in Lymphoma Determines Interactions with Macrophages By Altered PD-L1 Expression and Exosome Formation. *Blood, The Journal of the American Society of Hematology*. https://ashpublications.org/blood/article/132/Supplement%201/275/264075

25. Clement Opoku-Okrah, Daniel Kwasi Sam, Bernard Nkum, Elliot Eli Dogbe, Lilian Antwi-Boateng, **Benedict Sackey**, Daniel Gyamfi, Kwabena Owusu Danquah (2016). Sports anaemia and anthropometric evaluation of footballers at Kwame Nkrumah University of Science and Technology (KNUST). *Pan African Medical Journal*. https://doi.org/10.11604/pamj.2016.24.25.7244

Theses 1

1. **B Sackey** (2023). Elucidation of the Role of DNA-Damage Response Genes in the Tumor Microenvironment and Molecular Characterization of a" Tropical" Chronic Lymphocytic Leukemia Cohort. *Universitäts-und Stadtbibliothek Köln*. https://kups.ub.uni-koeln.de/70767/1/Doctoal%20Dissertation.pdf