

Jonathan Asante

Lecturer · Pharmacology
University of Cape Coast

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PROFILE

Lecturer, School of Pharmacy and Pharmaceutical Sciences, University of Cape Coast, Ghana. Ph.D., Medical Microbiology, University of KwaZulu Natal, South Africa.

MPharm, Pharmaceutical Microbiology, University of KwaZulu-Natal.

Research interests include Antimicrobial Resistance, bacterial pathogen genomics, antimicrobial resistance mechanisms.

Bachelor of Pharmacy, Kwame Nkrumah University of Science and Technology

RESEARCH

Interests Microbiology · pathogen genomics · antimicrobial resistance

Areas Molecular Biology · Infectious Diseases · Clinical Biochemistry · Molecular Medicine · Applied Microbiology and Biotechnology · Endocrinology

RESEARCH SUMMARY

18	542	11	11	1.90	19%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 18 publications listed below, 2018–2025. 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. 3 of the 16 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

PhD student	2018–present
Pharmaceutical Sciences, University of KwaZulu-Natal, Durban, South Africa	
Lecturer	
Pharmaceutical Microbiology, University of Cape Coast, Cape Coast, Ghana	
Superintendent Pharmacist	2013–2014
Asylum Down Pharmacy, Accra, Ghana	

EDUCATION AND QUALIFICATIONS

PhD	2018–2021
Medical Microbiology, University of KwaZulu-Natal, Durban, South Africa	
Master of Pharmacy	2014–2016
Pharmacy, University of KwaZulu-Natal, Durban, South Africa	
Bachelor of Pharmacy	2007–2011
Pharmacy, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana	

DISTINCTIONS, MEMBERSHIPS AND SERVICE

Pharmaceutical Society of Ghana	2012–present
Accra, Ghana	

PUBLICATIONS

Journal articles 17

1. Bakoena A. Hetsa, Jonathan Asante, Joshua Mbanga, Daniel G. Amoako, Akebe L.K. Abia, Arshad Ismail, Sabiha Y. Essack (2025). Genomic analysis of virulent, multidrug resistant *Klebsiella pneumoniae* and *Klebsiella oxytoca* from bloodstream infections, South Africa. *Microbial Pathogenesis*. <https://doi.org/10.1016/j.micpath.2024.107272>
2. Bakoena A. Hetsa, Jonathan Asante, Daniel G. Amoako, Akebe L. K. Abia, Joshua Mbanga, Sabiha Y. Essack (2025). Multidrug-Resistant ESKAPEEC Pathogens From Bloodstream Infections in South Africa: A Cross-Sectional Study Assessing Resistance to WHO AWaRe Antibiotics. *Health Science Reports*. <https://doi.org/10.1002/hsr2.70897>
3. Eberechi Phoebe Nnah, Jonathan Asante, Daniel Gyamfi Amoako, Akebe Luther King Abia, Sabiha Y. Essack (2024). Antibiotic-resistant *Escherichia coli* (E. coli) at one health interfaces in Africa: A scoping review. *The Science of The Total Environment*. <https://doi.org/10.1016/j.scitotenv.2024.177580>
4. Bakoena A. Hetsa, Jonathan Asante, Joshua Mbanga, Arshad Ismail, Akebe L. K. Abia, Daniel G. Amoako, Sabiha Y. Essack (2024). Genomic Characterization of Methicillin-Resistant and Methicillin-Susceptible *Staphylococcus aureus* Implicated in Bloodstream Infections, KwaZulu-Natal, South Africa: A Pilot Study. *Antibiotics*. <https://doi.org/10.3390/antibiotics13090796>
5. Daniel Anokwah, Evelyn Asante-Kwatia, Jonathan Asante, Daniel Obeng-Mensah, Cynthia Amaning Danquah, Isaac Kingsley Amponsah, Elvis Ofori Ameyaw, Robert Peter Biney, Ernest Obese, Lukas Oberer, Daniel Gyamfi Amoako, Akebe Luther King Abia, Abraham Yeboah Mensah (2023). Antibacterial, Resistance Modulation, Anti-Biofilm Formation, and Efflux Pump Inhibition Properties of *Loeseneriella africana* (Willd.) N. Halle (Celastraceae) Stem Extract and Its Constituents. *Microorganisms*. <https://doi.org/10.3390/microorganisms12010007>
6. Abraham Yeboah Mensah, E Asante-Kwatia, J Asante, D Obeng-Mensah, CA Danquah, Elvis Ofori Ameyaw (2023). Antibacterial, Resistance Modulation, Anti-Biofilm Formation, and Efflux Pump Inhibition Properties of *Loeseneriella africana* (Willd.) N. Halle (Celastraceae) Stem *Microorganisms*. <https://www.mdpi.com/2076-2607/12/1/7>
7. John Antwi Apenteng, Nicholas Agyepong, Raymond Ashalley Tetteh, Jonathan Asante, Esther Eyram Asare Yeboah, Tracy Turkson, Emmanuel Sarpong, Vera Ampomabea Akoto, Theodora Sefa Danquah (2023). Prevalence and Antimicrobial Susceptibility Patterns of *Escherichia Coli* and *Salmonella Typhi* Isolated from Meat and Fish Samples from Selected Markets in a Metropolis and District in Ghana. *Advances in Infectious Diseases*. <https://doi.org/10.4236/aid.2023.134055>
8. Jonathan Asante, Akebe L. K. Abia, Daniel Anokwah, Bakoena A. Hetsa, Dorcas O. Fatoba, Linda A. Bester, Daniel G. Amoako (2022). Phenotypic and Genomic Insights into Biofilm Formation in Antibiotic-Resistant Clinical Coagulase-Negative *Staphylococcus* Species from South Africa. *Genes*. <https://doi.org/10.3390/genes14010104>
9. Jonathan Asante, Bakoena A. Hetsa, Daniel G. Amoako, Akebe L. K. Abia, Linda A. Bester, Sabiha Y. Essack (2021). Genomic Analysis of Antibiotic-Resistant *Staphylococcus epidermidis* Isolates From Clinical Sources in the Kwazulu-Natal Province, South Africa. *Frontiers in Microbiology*. <https://doi.org/10.3389/fmicb.2021.656306>
10. Jonathan Asante, Bakoena A. Hetsa, Daniel G. Amoako, Akebe Luther King Abia, Linda A. Bester, Sabiha Y. Essack (2021). Multidrug-Resistant Coagulase-Negative *Staphylococci* Isolated from Bloodstream in the uMgungundlovu District of KwaZulu-Natal Province in South Africa: Emerging Pathogens. *Antibiotics*. <https://doi.org/10.3390/antibiotics10020198>
11. Ncomeka Sineke, Jonathan Asante, Daniel Gyamfi Amoako, Akebe Luther King Abia, Keith Perrett, Linda A. Bester, Sabiha Y. Essack (2021). *Staphylococcus aureus* in Intensive Pig Production in South Africa: Antibiotic Resistance, Virulence Determinants, and Clonality. *Pathogens*. <https://doi.org/10.3390/pathogens10030317>
12. Frederick Adzitey, Jonathan Asante, Hezekiel M. Kumalo, Rene B. Khan, Anou M. Somboro, Daniel G.

Amoako (2020). Genomic Investigation into the Virulome, Pathogenicity, Stress Response Factors, Clonal Lineages, and Phylogenetic Relationship of *Escherichia coli* Strains Isolated from Meat Sources in Ghana. *Genes*. <https://doi.org/10.3390/genes11121504>

13. Jonathan Asante, Daniel G. Amoako, Akebe L.K. Abia, Anou M. Somboro, Usha Govinden, Linda A. Bester, Sabiha Y. Essack (2020). Review of Clinically and Epidemiologically Relevant Coagulase-Negative Staphylococci in Africa. *Microbial Drug Resistance*. <https://doi.org/10.1089/mdr.2019.0381>
14. J Asante, U Govinden, A Owusu-Ofori, L.A. Bester, S.Y. Essack (2019). Molecular characterization of methicillin-resistant *Staphylococcus aureus* isolates from a hospital in Ghana. *African Journal of Clinical and Experimental Microbiology*. <https://doi.org/10.4314/ajcem.v20i3.1>
15. Jonathan Asante, Ayman Noreddin, Mohamed El Zowalaty (2019). Systematic Review of Important Bacterial Zoonoses in Africa in the Last Decade in Light of the 'One Health' Concept. *Pathogens*. <https://doi.org/10.3390/pathogens8020050>
16. Jonathan Asante, John Osei Sekyere (2019). Understanding antimicrobial discovery and resistance from a metagenomic and metatranscriptomic perspective: advances and applications. *Environmental Microbiology Reports*. <https://doi.org/10.1111/1758-2229.12735>
17. John Osei Sekyere, Jonathan Asante (2018). Emerging Mechanisms of Antimicrobial Resistance in Bacteria and Fungi: Advances in the Era of Genomics. *Future Microbiology*. <https://doi.org/10.2217/fmb-2017-0172>

Theses 1

1. Jonathan Asante (2020). Molecular and Genomic Analysis of Clinical Multidrug-resistant Coagulase-negative Staphylococci from the UMgungundlovu District in the KwaZulu-Natal Province, South Africa. *University of KwaZulu-Natal, Medical School*. <https://scholar.google.com/scholar?cluster=10723758774516621882&hl=en&oi=scholar>