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=scholarr