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RESEARCH

Interests	Biomolecular Computations · Natural Products · Biologically Active Compounds · Pharmaceutical and
Areas	Plant Science · Pollution · Molecular Biology · Food Science · Public Health, Environmental and Occupational Health · Microbiology

RESEARCH SUMMARY

112	2,124	25	62	1.79	21%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 112 publications listed below, 2013–2026. Field-weighted impact is the mean over the 100 works scored for it; 1.00 is the world average for works of the same field, type and year. 21 of the 100 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Senior Lecturer 2018–present
Chemistry, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

PUBLICATIONS

Journal articles 111

1. M Seidu, **L Borquaye** (2026). Abstract 5654 Biological Activity of Computationally Designed Ttap Variants. *Journal of Biological Chemistry*. https://www.jbc.org/article/S0021-9258(26)01748-5/fulltext
2. Stephenson Obeng Owusu, Sharifa Fatao, Michael Konney Laryea, Cedric Dzidzor Kodjo Amengor, **Lawrence Sheringham Borquaye** (2026). Computational engineering of the scorpion venom peptide Ttap3 enhances membrane selectivity and antimicrobial potential. *In Silico Pharmacology*. https://doi.org/10.1007/s40203-026-00742-0
3. Opoku Gyamfi, Patricia Doe Arthur-Jim, Berlin Manasseh Awotwe, Eugene Ansah, **Lawerence Sheringham Borquaye**, Matt Dodd, Godfred Darko (2026). Distribution and sediment quality of heavy metals in riverine sediments in Kumasi, Ghana. *Soil and Sediment Contamination An International Journal*. https://doi.org/10.1080/15320383.2025.2612287
4. Francis Nyarkoh, Evans Barimah, Godfred Darko, Michael Konney Laryea, **Lawrence Sheringham Borquaye** (2026). Hydrochemical evolution and spatial variability of groundwater in a peri-urban basement aquifer, Kumasi, Ghana. *Total Environment Advances*. https://doi.org/10.1016/j.teadva.2026.200170
5. Kwadwo Owusu, Sharifa Fatao, Michael Konney Laryea, **Lawrence Sheringham Borquaye** (2026). In vitro and in silico helminthicidal efficacy of Vitex grandifolia and Parinari congensis leaf and stem bark extracts. *Biocatalysis and Agricultural Biotechnology*. https://doi.org/10.1016/j.bcab.2026.103998
6. Akua Gyamfi, De-youngster Wereko Brobbey, Michael Konney Laryea, Mercy Badu, Isaac Asiamah, **Lawrence Sheringham Borquaye** (2026). Nanoemulsification of Cleistopholis patens and Vitex simplicifolia essential oils enhances antimicrobial action and ciprofloxacin synergy. *Pharmacological Research - Natural Products*. https://doi.org/10.1016/j.prenap.2026.100555

7. P Acheampong, MK Laryea, **LS Borquaye** (2026). Salacia debilis-Derived Compounds Attenuate Biofilm Formation and Virulence-Associated Phenotypes in Pseudomonas aeruginosa and Staphylococcus aureus. *Pharmacological Research-Reports*. https://www.sciencedirect.com/science/article/pii/S2950200426000303

8. Jennifer Amo-Mensah, Abdul Nasir Abdullah, Micheal Konney Laryea, **Lawrence Sheringham Borquaye** (2026). Wound Healing Potential of Guibourtia copallifera Benn., Tylophora conspicua N.E.Br., Crotalaria goreensis Guill & Perr, and Phaulopsis ciliata (Willd.) Hepper. *ChemistrySelect*. https://doi.org/10.1002/slct.202506246

9. Mohamed MUTOCHELUH, Charles ANSAH, Kwame Ohene BUABENG, Sampson TWUMASI-ANKRAH, Seth Agyei DOMFEH, Michael OWUSU, Michae OWUSU-ANSAH, **Lawrence Sheringha BORQUAYE**, Evans ADEI, Christiana DUAH, Daniel BOAMAH, Mavis BOAKYE-YIADOM, Kofi Bobi BARIMAH, Ellis OWUSU-DABO (2025). A CRYPTOLEPIS SANGUINOLENTA-BASED PREPARATION REDUCED HOSPITAL STAY AND MORTALITY OF COVID-19 PATIENTS DURING THE PANDEMI. *African Journal of Traditional Complementary and Alternative Medicines*. https://doi.org/10.21010/ajtcamv21i1.1

10. Caleb Nketia Mensah, Prince Manu, Randolf Benle, Emmanuella Aba Antwi, Michael Konney Laryea, Godfred Darko, Cedric Dzidzor Amengor, **Lawrence Sheringham Borquaye** (2025). Antifungal potential of Salacia debilis extracts and compounds against Candida albicans: Biofilm inhibition, synergistic effects and computational studies. *Pharmacological Research - Natural Products*. https://doi.org/10.1016/j.prenap.2025.100448

11. Hilda Amoakoa, Daniel Owusu Apraku, Prince Asamoah Boateng, Emmanuel Kofi Adjei, Justice Addo, Michael Konney Laryea, **Lawrence Sheringham Borquaye** (2025). Chemical characterization, biological activities, and molecular docking studies of essential oils from Annona reticulata L (Annonaceae). *Essential Chem*. https://doi.org/10.1080/28378083.2025.2540327

12. Prince Manu, Muntawakilu Padiga Seidu, Alice Adomako, Caleb Kusi Asamoah, Ophelia Duodu, Akyana Britwum, Michael Konney Laryea, Godfred Darko, **Lawrence Sheringham Borquaye** (2025). Computational elucidation of Plasmodium falciparum enoyl-ACP reductase inhibition by Salacia debilis compounds: adaptive ligand binding drives antimalarial activity. *In Silico Pharmacology*. https://doi.org/10.1007/s40203-025-00413-6

13. **Lawrence Sheringham Borquaye** (2025). Conversion of cassava peels into bioethanol using the OSTEP approach. *Biomass Conversion and Biorefinery*.

14. Samuel Asiamah Obiri, Denzel Opoku-Kwabi, Yaw Opoku-Boahen, Francis Ackah Armah, Malcolm Patrick Fynn, **Lawrence Sheringham Borquaye**, Isaac Asiamah (2025). Crude alkaloids from Phyllanthus fraternus, Webster: Antibacterial, time-kill kinetics and resistance modulation studies. *Pharmacological Research - Natural Products*. https://doi.org/10.1016/j.prenap.2025.100312

15. Rita Opoku, Emmanuel Amponsah, Michael Konney Laryea, Godfred Darko, **Lawrence Sheringham Borquaye** (2025). Descriptive analysis of pharmaceutical disposal practices in Sekondi-Takoradi: implications for environmental and public health safety in Ghana. *Discover Public Health*. https://doi.org/10.1186/s12982-025-00962-3

16. Akua Gyamfi, Randolf Benle, Michael Konney Laryea, M Badu, **Lawrence Sheringham Borquaye** (2025). Essential Oil Emulsions from Xylopia Villosa and Hyparrhena Rufa as Potent Antimicrobial and Antibiofilm Agents. *Chemistry Africa*. https://doi.org/10.1007/s42250-025-01459-x

17. Alkhair Adam Khalil Mohamed, Tamekloe Woasiedem, Philip Collins Appiah-Ofori, Esraa Mohammed Abdulmahmoud Adam, Samuel Asiamah Obiri, **Lawrence Sheringham Borquaye**, Christian K. Adokoh, Ghazi Elamin, Isaac Asiamah (2025). In Silico Investigation of Phytochemicals From Clinically Tested Herbal Extracts as Potential Dihydrofolate Reductase Inhibitors for Buruli Ulcer. *BioMed Research International*. https://doi.org/10.1155/bmri/4196295

18. JO Mensah, M Laryea, **LS Borquaye** (2025). Molecular insights into the differential membrane targeting of maximin 1 in prokaryotic and eukaryotic cells. *Journal of Biomolecular Structure and Dynamics*.

19. Rebecca Akuffo Boafoa Addo, Akua Gyamfi, Nathaniel Owusu Boadi, Michael Konney Laryea, Mercy Badu, **Lawrence Sheringham Borquaye** (2025). Nanoemulsion encapsulation improves the stability and

antibacterial efficacy of orange (Citrus x sinensis) peel essential oil. *Discover Chemistry.*. https://doi.org/10.1007/s44371-025-00383-w

20. Seidu Atta Ishmael, Rita Opoku, Michael Konney Laryea, Edward Ebo Kwaansa-Ansah, Godfred Darko, **Lawrence Sheringham Borquaye** (2025). Occurrence and ecological risk assessment of commonly used pharmaceuticals in water and soil of Sefwi Wiawso, Ghana. *Discover Chemistry.*. https://doi.org/10.1007/s44371-025-00146-7
21. MK Laryea, G Darko, **LS Borquaye** (2025). Peptide Extract from Hexaplex trunculus: A Promising Antimicrobial Agent with Inhibitory Effects on Quorum Sensing and Biofilm Formation. *Pharmacological Research-Natural Products*. https://www.sciencedirect.com/science/article/pii/S2950199725001752
22. Seidu Atta Ishmael, Rita Opoku, Michael Konney Laryea, Emmanuel Amponsah, Godfred Darko, Enoch Jones Borketey, **Lawrence Sheringham Borquaye** (2025). Pharmaceutical Waste Disposal: A Cross-Sectional Survey of Disposal Practices and Awareness in Sefwi Wiawso Municipality, Ghana. *Health Science Reports*. https://doi.org/10.1002/hsr2.71320
23. R. Opoku, M. K. Laryea, G. Darko, **L. S. Borquaye** (2025). Pharmaceutical residues in environment matrices in the Sekondi-Takoradi metropolis of Ghana present potential ecotoxicological risks. *International Journal of Environmental Science and Technology*. https://doi.org/10.1007/s13762-025-06471-9
24. Elvis Poku-Adusei, Gideon Okyere Mensah, Christian Opoku Asamoah, Bruce Tsri, Hafsa Akeeya, Abass Shaibu Danbaki, Solomon Obiri-Yeboah, Tamara D. Busch, **Lawrence Sheringham Borquaye**, Peter Donkor, Azeez Butali, Lord Jephthah Joojo Gowans (2025). Pharmacogenomics in Orofacial Clefts Care: Insights from Whole-Genome Sequencing of Case-Parents Trios. *Journal of Personalized Medicine*. https://doi.org/10.3390/jpm15100456
25. Caleb Kusi Asamoah, Vincent Amankwah, Keziah Sefah, Jehoshaphat Oppong Mensah, Philipina Acheampong, Michael Konney Laryea, Placide Mahougnan Toklo, **Lawrence Sheringham Borquaye** (2025). Phytochemical and Mechanistic Insights Into the Anthelmintic Activities of Salacia debilis Extracts. *ChemistrySelect*. https://doi.org/10.1002/slct.202504568
26. Benjamin Darko Asamoah, Lily Lisa Yevugah, **Lawrence Sheringham Borquaye**, Matt Dodd, Godfred Darko (2025). Receptor modeling, ecological risks, and human health impacts of mercury in some Ghanaian topsoils due to mining and commercial activities. *Environmental Toxicology and Chemistry*. https://doi.org/10.1093/etojnl/vgaf054
27. Benjamin Darko Asamoah, Barnabas Awortwe, **Lawrence Sheringham Borquaye**, Matt Dodd, Godfred Darko (2025). Source Apportionment of Potentially Toxic Elements in Topsoils Across Some Mining-Impacted Communities in Ghana Using the Positive Matrix Factorization Model. *Soil and Sediment Contamination An International Journal*. https://doi.org/10.1080/15320383.2025.2574273
28. Cedric Dzidzor Amengor, Cedric Dzidzor Amengor, Patrick Gyan, Prince Danan Biniyam, Cynthia Amaning-Danquah, Benjamin Kingsley Harley, Victoria Ohene-Adu, Kwabena Adu-Adjei, Billy Mawunyo Abudey, Michael Osei, Paul Quansah, Cyril Makafui Amengor, **Lawrence Sheringham Borquaye** (2025). Substituted chalcones inhibit biofilm formation and efflux pumps of multidrug resistant Staphylococcus aureus: Antimicrobial, molecular docking, ADME and QSAR studies. *Bioorganic Chemistry*. https://doi.org/10.1016/j.bioorg.2025.109077
29. Kwadwo Owusu, Stephenson Obeng Owusu, Jehoshaphat Oppong Mensah, Michael Konney Laryea, **Lawrence Sheringham Borquaye** (2025). Synergistic action of phytoconstituents drives the anthelmintic potential of Croton penduliflorus stem bark extracts. *Discover Chemistry.*. https://doi.org/10.1007/s44371-025-00265-1
30. Cedric Dzidzor Kodjo Amengor, Prince Danan Biniyam, Victoria Ohene-Adu, Kwabena Adu-Adjei, Michael Osei, Patrick Gyan, Paul Quansah, Felix Odame, Ernest Oyeh, Cyril Makafui Amengor, **Lawrence Sheringham Borquaye** (2025). Synthesis, antitubercular activity and computational studies of click-tethered phosphonium salts. *Bioorganic Chemistry*. https://doi.org/10.1016/j.bioorg.2025.109390
31. **Lawrence Sheringham Borquaye**, K Buabeng, S Twumasi-Ankrah, S Domfeh (2024). A CRYPTOLEPIS SANGUINOLENTA-BASED PREPARATION REDUCED HOSPITAL STAY AND MORTALITY OF COVID-19

PATIENTS DURING THE PANDEMIC. *African Journal of Traditional, Complementary and Alternative Medicines*. https://journals.athmsi.org/index.php/ajtcam/article/view/6146

32. **LS Borquaye**, P Manu, M Laryea (2024). Abstract 2266 Amaryllidaceae Alkaloids as Potential Inhibitors of the Trypanosoma cruzi Trans-sialidase Enzyme: Unique Insights from Computational Studies. *Journal of Biological Chemistry*. https://www.jbc.org/article/S0021-9258(24)00608-2/fulltext
33. Abigail Kusiwaa Adomako, Edward Ntim Gasu, Jehoshaphat Oppong Mensah, **Lawrence Sheringham Borquaye** (2024). Antileishmanial natural products as potential inhibitors of the Leishmania pteridine reductase: insights from molecular docking and molecular dynamics simulations. *In Silico Pharmacology*. https://doi.org/10.1007/s40203-024-00247-8
34. Denick Amon, Prince Manu, Evelyn Asante-Kwatia, Priscilla Kolibea Mante, Cynthia Amaning Danquah, **Lawrence Sheringham Borquaye**, Edmund Ekuadzi (2024). Antimicrobial resistance modifying effects and molecular docking studies of Affinine, derived from Tabernaemontana crassa. *Scientific African*. https://doi.org/10.1016/j.sciaf.2024.e02382
35. Benjamin Effah Dankwa, Bismark Anabila Nyaaba, Gershon Amenuvor, Seth Obiri-Yeboah, Godfred Darko, Michael Konney Laryea, **Lawrence Sheringham Borquaye** (2024). Ecological risk assessment of selected pharmaceuticals in major rivers within Kumasi, Ghana. *Essential Chem*. https://doi.org/10.1080/28378083.2024.2421861
36. Benjamin Effah Dankwa, Joseph Nana Gyesi, Bismark Anabila Nyaaba, Matilda Abena Ampah, Christian Kankam Boadu, Michael Konney Laryea, Godfred Darko, **Lawrence Sheringham Borquaye** (2024). Environmental impact of pharmaceutical contaminants in dumpsites: a study from Ejisu-Juaben municipality, Ghana. *Discover Soil.*. https://doi.org/10.1007/s44378-024-00007-2
37. Aaron Boakye, Muntawakilu Padiga Seidu, Alice Adomako, Michael Konney Laryea, **Lawrence Sheringham Borquaye** (2024). Marine-Derived Furanones Targeting Quorum-Sensing Receptors in Pseudomonas aeruginosa : Molecular Insights and Potential Mechanisms of Inhibition. *Bioinformatics and Biology Insights*. https://doi.org/10.1177/11779322241275843
38. MK Laryea, **LS Borquaye** (2024). Marine-Derived Furanones Targeting Quorum-Sensing Receptors in: Molecular Insights and Potential Mechanisms of Inhibition. *Bioinformatics and Biology Insights*. https://scholar.google.com/scholar?cluster=16179485521136505738&hl=en&oi=scholarr
39. Aaron Boakye, Courage Yaw Okose, Isaac Heneampong, Michael Konney Laryea, **Lawrence Sheringham Borquaye** (2024). Molecular insights into the inhibition of Leishmania donovani O-acetylserine sulfhydrylase by cyclopropane carboxylic acid derivatives: a computational study. *Discover Chemistry.*. https://doi.org/10.1007/s44371-024-00032-8
40. Jennifer Tetteh, De-Youngster Wereko Brobbey, Kofi Junior Osei, Azumah Ayamah, Michael Konney Laryea, Godfred Darko, **Lawrence Sheringham Borquaye** (2024). Peptide Extract from Red Kidney Beans, Phaseolus vulgaris (Fabaceae), Shows Promising Antimicrobial, Antibiofilm, and Quorum Sensing Inhibitory Effects. *Biochemistry Research International*. https://doi.org/10.1155/2024/4667379
41. Benjamin Darko Asamoah, Lily Lisa Yevugah, **Lawrence Sheringham Borquaye**, Matt Dodd, Godfred Darko (2024). Spatial distribution, bioaccessibility, and human health implications of potentially toxic elements in mining-impacted topsoils in Obuasi Municipality of Ghana. *Environmental Geochemistry and Health*. https://doi.org/10.1007/s10653-024-02028-w
42. Muntawakilu Padiga Seidu, Alice Adomako, Aaron Boakye, Michael Konney Laryea, **Lawrence Sheringham Borquaye** (2024). Targeting Quorum Sensing in Pseudomonas aeruginosa Using Marine-Derived Metabolites—An In Silico Approach. *Journal of Chemistry*. https://doi.org/10.1155/joch/2172452
43. Michael Konney Laryea, Gilbert Boadu Ampomah, Edmund Ekuadzi, Rita Akosua Dickson, **Lawrence Sheringham Borquaye** (2023). Antimalarial compounds from the climbing stems of salacia debilis. *Natural Product Research*. https://doi.org/10.1080/14786419.2023.2272288
44. Gertrude Adomaa Asante Ampadu, Jehoshaphat Oppong Mensah, Aaron Boakye, Philipina Acheampong, Michael Konney Laryea, **Lawrence Sheringham Borquaye** (2023). Antioxidant, antimicrobial, and antibiofilm properties of essential oils extracted from Dialium guineense. *International Journal of Food Properties*. https://doi.org/10.1080/10942912.2023.2236322

45. Isaac Asiamah, Samuel Asiamah Obiri, Woasiedem Tamekloe, Francis Ackah Armah, **Lawrence Sheringham Borquaye** (2023). Applications of molecular docking in natural products-based drug discovery. *Scientific African*. https://doi.org/10.1016/j.sciaf.2023.e01593

46. Kirsty Mary Mawumenyo Mamattah, Abigail Kusiwaa Adomako, Caleb Nketia Mensah, **Lawrence Sheringham Borquaye** (2023). Chemical Characterization, Antioxidant, Antimicrobial, and Antibiofilm Activities of Essential Oils of Plumeria alba (Forget-Me-Not). *Biochemistry Research International*. https://doi.org/10.1155/2023/1040478

47. Jahnissi Frimpomah Odoom, Caleb Impraim Aboagye, Philipina Acheampong, Isaac Asiamah, Godfred Darko, **Lawrence Sheringham Borquaye** (2023). Chemical Composition, Antioxidant, and Antimicrobial Activities of the Leaf and Fruit Essential Oils of the West African Plum, Vitex doniana. *Journal of Chemistry*. https://doi.org/10.1155/2023/9959296

48. Jehoshaphat Oppong Mensah, Aaron Boakye, Prince Manu, Prisca Baah Nketia, Edward Ntim Gasu, Isaac Asiamah, **Lawrence Sheringham Borquaye** (2023). Computational Studies Provide a Molecular Basis for the Quorum Sensing Inhibitory Action of Compounds from Dioon spinulosum Dyer Ex Eichler. *ChemistrySelect*. https://doi.org/10.1002/slct.202203773

49. Aaron Boakye, Edward Ntim Gasu, Jehoshaphat Oppong Mensah, **Lawrence Sheringham Borquaye** (2023). Computational studies on potential small molecule inhibitors of Leishmania pteridine reductase 1. *Journal of Biomolecular Structure and Dynamics*. https://doi.org/10.1080/07391102.2023.2166119

50. Margaret Amerley Amarh, Michael Konney Laryea, **Lawrence Sheringham Borquaye** (2023). De novo peptides as potential antimicrobial agents. *Heliyon*. https://doi.org/10.1016/j.heliyon.2023.e19641

51. Benjamin Darko Asamoah, Matt Dodd, Lily Lisa Yevugah, **Lawrence Sheringham Borquaye**, Alexander Boateng, Marian Asantewah Nkansah, Godfred Darko (2023). Distribution and in-vitro bioaccessibility of potentially toxic metals in surface soils from a mining and a non-mining community in Ghana: implications for human health. *Environmental Geochemistry and Health*. https://doi.org/10.1007/s10653-023-01776-5

52. Priscilla Akwaboah Oduro, Gloria Ankar-Brewoo, Matt Dodd, Eugene Ansah, Cynthia Darko, **Lawrence Sheringham Borquaye**, Godfred Darko (2023). Health risks of potentially toxic metals in cereal-based breakfast meals in the Kumasi Metropolis, Ghana. *Discover Food*. https://doi.org/10.1007/s44187-023-00067-3

53. Francisca Nti Konadu, Opoku Gyamfi, Eugene Ansah, **Lawrence Sheringham Borquaye**, Victor Agyei, Emmanuel Dartey, Matt Dodd, Seth Obiri-Yeboah, Godfred Darko (2023). Human health risk assessment of potentially toxic elements in soil and air particulate matter of automobile hub environments in Kumasi, Ghana. *Toxicology Reports*. https://doi.org/10.1016/j.toxrep.2023.09.010

54. Prisca Baah Nketia, Edward Ntim Gasu, Jehoshaphat Oppong Mensah, **Lawrence Sheringham Borquaye** (2023). In silico identification of α-bisabolol and letestuianin C as potential inhibitors of Trypanosoma brucei trypanothione reductase. *Journal of Biomolecular Structure and Dynamics*. https://doi.org/10.1080/07391102.2023.2247084

55. Jehoshaphat Oppong Mensah, Aaron Boakye, Michael Laryea, Edward Ntim Gasu, **Lawrence Sheringham Borquaye** (2023). Molecular insights into the differential membrane targeting of maximin 1 in prokaryotic and eukaryotic cells. *Journal of Biomolecular Structure and Dynamics*. https://doi.org/10.1080/07391102.2023.2292297

56. Bismark Anabila Nyaaba, Joseph Nana Gyesi, Godfred Darko, **Lawrence Sheringham Borquaye** (2023). Occurrence and Ecological Risk Assessment of Pharmaceutical Residues in Effluents from Pharmaceutical Manufacturing Facilities in Kumasi, Ghana. *Chemistry Africa*. https://doi.org/10.1007/s42250-023-00703-6

57. Loretta Akakpo, Edward Ntim Gasu, Jehoshaphat Oppong Mensah, **Lawrence Sheringham Borquaye** (2023). Oplodiol and nitidine as potential inhibitors of Plasmodium falciparum dihydrofolate reductase: insights from a computational study. *Journal of Biomolecular Structure and Dynamics*. https://doi.org/10.1080/07391102.2023.2212815

58. Prince Manu, Jehoshaphat Oppong Mensah, Edward Ntim Gasu, **Lawrence Sheringham Borquaye** (2023). The Amaryllidaceae alkaloid, montanine, is a potential inhibitor of the Trypanosoma cruzi trans-sialidase

enzyme. *Journal of Biomolecular Structure and Dynamics*. https://doi.org/10.1080/07391102.2023.2272750

59. Jehoshaphat Oppong Mensah, Gilbert Boadu Ampomah, Edward Ntim Gasu, Abigail Kusiwaa Adomako, Elliott Sarpong Menkah, **Lawrence Sheringham Borquaye** (2022). Allosteric Modulation of the Main Protease (MPro) of SARS-CoV-2 by Casticin—Insights from Molecular Dynamics Simulations. *Chemistry Africa*. https://doi.org/10.1007/s42250-022-00411-7

60. Lois Kwane Kyei, Edward Ntim Gasu, Gilbert Boadu Ampomah, Jehoshaphat Oppong Mensah, **Lawrence Sheringham Borquaye** (2022). An In Silico Study of the Interactions of Alkaloids from Cryptolepis sanguinolenta with Plasmodium falciparum Dihydrofolate Reductase and Dihydroorotate Dehydrogenase. *Journal of Chemistry*. https://doi.org/10.1155/2022/5314179

61. Bernice Araba Otoo, Ivy Anima Amoabeng, Godfred Darko, **Lawrence Sheringham Borquaye** (2022). Antibiotic and analgesic residues in the environment – Occurrence and ecological risk study from the Sunyani municipality, Ghana. *Toxicology Reports*. https://doi.org/10.1016/j.toxrep.2022.07.003

62. Isaac Kingsley Amponsah, Abena Boakye, Emmanuel Orman, Francis Ackah Armah, **Lawrence Sheringham Borquaye**, Silas Adjei, Yaa Afrakoma Dwamena, Kennedy Ameyaw Baah, Benjamin Kingsley Harley (2022). Assessment of some quality parameters and chemometric-assisted FTIR spectral analysis of commercial powdered ginger products on the Ghanaian market. *Heliyon*. https://doi.org/10.1016/j.heliyon.2022.e09150

63. Isaiah Osei Duah Junior, Michel Pascal Tchiakpe, **Lawrence Sheringham Borquaye**, Kwadwo Amoah, Francis Kwaku Dzideh Amankwah, David Ben Kumah, Linda Aurelia Ofori, Anthony Danso-Appiah, Bright Owusu Prempeh, Stephen Yao Gbedema, Justin Munyaneza, Cynthia Amaning Danquah, Kwadwo Owusu Akuffo (2022). Clinical characteristics of external bacterial ocular and periocular infections and their antimicrobial treatment patterns among a Ghanaian ophthalmic population. *Scientific Reports*. https://doi.org/10.1038/s41598-022-14461-x

64. Edward Ntim Gasu, John Kenneth Mensah, **Lawrence Sheringham Borquaye** (2022). Computer-aided design of proline-rich antimicrobial peptides based on the chemophysical properties of a peptide isolated from Olivancillaria hiatula. *Journal of Biomolecular Structure and Dynamics*. https://doi.org/10.1080/07391102.2022.2131626

65. Nana Aboagye Acheampong, William Gariba Akanwariwiak, Moses Mensah, Bernard Fei-Baffoe, Felix Offei, Joseph Asankomah Bentil, Abubakari Zarouk Imoro, **Lawrence Sheringham Borquaye** (2022). Conversion of cassava peels into bioethanol using the OSTEP approach. *Biomass Conversion and Biorefinery*. https://doi.org/10.1007/s13399-021-02149-7

66. Ivy Anima Amoabeng, Bernice Araba Otoo, Godfred Darko, **Lawrence Sheringham Borquaye** (2022). Disposal of Unused and Expired Medicines within the Sunyani Municipality of Ghana: A Cross-Sectional Survey. *Journal of Environmental and Public Health*. https://doi.org/10.1155/2022/6113346

67. Gertrude Adomaa Asante Ampadu, Jehoshaphat Oppong Mensah, Godfred Darko, **Lawrence Sheringham Borquaye** (2022). Essential Oils from the Fruits and Leaves of Spondias mombin Linn.: Chemical Composition, Biological Activity, and Molecular Docking Study. *Evidence-based Complementary and Alternative Medicine*. https://doi.org/10.1155/2022/7211015

68. Ewura Abena Coker, Bright Cephas Nkuah, Sandra Afia Amoanimaah, Joel Baffour Oppong, Opoku Gyamfi, Eugene Ansah, Kofi Agyarko Ababio, David Dotse Wemegah, **Lawrence Sheringham Borquaye**, Godfred Darko (2022). Human exposure to mercury in the atmosphere and soils in Konongo: an age-old mining centre in the Ashanti Region of Ghana. *Environmental Geochemistry and Health*. https://doi.org/10.1007/s10653-022-01441-3

69. Thomas Osafo, Trudy Janice Philips, Abigail Kusiwaa Adomako, **Lawrence Sheringham Borquaye**, Edmund Ekuadzi, Regina Appiah-Opong, Rita Akosua Dickson (2022). In vitro antileishmanial activity and molecular docking studies of lupeol and monostearin, isolated from Parkia biglobosa. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01464

70. Caleb Nketia Mensah, Gilbert Boadu Ampomah, Jehoshaphat Oppong Mensah, Edward Ntim Gasu, Caleb Impraim Aboagye, Edmund Ekuadzi, Nathaniel Owusu Boadi, **Lawrence Sheringham Borquaye** (2022). N-

alkylimidazole derivatives as potential inhibitors of quorum sensing in Pseudomonas aeruginosa. *Heliyon*. https://doi.org/10.1016/j.heliyon.2022.e12581

71. Caleb Impraim Aboagye, Gilbert Boadu Ampomah, Jehoshaphat Oppong Mensah, Caleb Nketia Mensah, Daniel Nartey, Edward Ntim Gasu, **Lawrence Sheringham Borquaye** (2022). N-benzylimidazoles as potential antimicrobial and antibiofilm agents – syntheses, bioactivity and molecular docking studies. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01529

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