Rev. Prof. Charles Ansah

Department of Pharmacology
Kwame Nkrumah University of Science and Technology

ORCID 0000-0001-6044-6117 · Profile knust.peerford.com/staff/3b035828-1460-4d37-9cf2-aff32b2fec15

RESEARCH

Areas: Molecular Biology · Plant Science · Pharmacology · Public Health, Environmental and Occupational Health · Endocrinology, Diabetes and Metabolism · Pharmacology

RESEARCH SUMMARY

53	803	14	21	1.01	9%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 53 publications listed below, 2005–2026. Field-weighted impact is the mean over the 53 works scored for it; 1.00 is the world average for works of the same field, type and year. 5 of the 53 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Professor
Pharmacology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

PhD
Molecular Toxicology, Imperial College London, London, United Kingdom

PUBLICATIONS

Journal articles 53

1. Jude Tetteh, Jemima Aggrey Appiah, Felix Zoiku, Derwaa Keteku, Bismark Aboagye-Adjei, Arnold Donkor Forkuo, Isaac Kingsley Amponsah, **Charles Ansah**, Kwesi Boadu Mensah (2026). Antiplasmodial Activity of Methylangolensate From Entandrophragma angolense (Welw.) C.DC. Stem Bark: An In Vitro and In Silico Approach. *Journal of Tropical Medicine*. https://doi.org/10.1155/jotm/7224187
2. Matthew Aidoo, **Charles Ansah**, Arnold Forkuo Donkor (2026). Assessment of drug utilization pattern and prescribing quality indicators among chronic kidney disease patients in a tertiary hospital in Northern Ghana. *International Journal of Basic & Clinical Pharmacology*. https://doi.org/10.18203/2319-2003.ijbcp20261115
3. George Owusu, Kofi Oduro Yeboah, Aaron Opoku Antwi, Babatunde Moses Duduyemi, **Charles Ansah**, Newman Osafo, George Ainooson (2026). Cordia Vignei leaf extract inhibits zymosan-induced arthritis in Sprague Dawley rats. *Comparative Clinical Pathology*. https://doi.org/10.1007/s00580-026-03826-7
4. Matthew Aidoo, **Charles Ansah**, Arnold Forkuo Donkor (2026). Determinants and outcomes of hyperpolypharmacy among chronic kidney disease patients in a teaching hospital in Northern Ghana. *International Journal of Basic & Clinical Pharmacology*. https://doi.org/10.18203/2319-2003.ijbcp20261105
5. Jemima Aggrey Appiah, Jude Tetteh, Felix Zoiku, Abenaa Owusuwaa Amoatey, Kofi Junior Osei, Sara Agyemang Antwi, John Nii Addotey, **Charles Ansah**, Kwesi Boadu Mensah (2026). In- vitro assessment of the anti- malarial potential of Alpha Onocerin; cytotoxicity and hemolytic effect, multi-stage activity and molecular docking. *BMC Pharmacology and Toxicology*. https://doi.org/10.1186/s40360-026-01120-4

6. 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

7. Sara Agyemang Antwi, Jemima Aggrey Appiah, Kwesi Boadu Mensah, Samuel Koranteng Asante, **Charles Ansah** (2025). Anxiety and depression among cesarean section patients and their association with hypertensive disorders. *Academia Mental Health and Well-Being*. https://doi.org/10.20935/mhealthwellb7976

8. Stephen Mensah Arhin, Kwesi Boadu Mensah, Isaac Tabiri Henneh, Felix Yirdong, Evans Kofi Agbeno, **Charles Ansah**, Martins Ekor (2025). Coping strategies of Ghanaian couples after unsuccessful infertility treatment: An exploratory qualitative study. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0326923

9. Agyeman, Joseph, Moomin, Aliu, Siaw-Frimpong, Moses, Adu-Gyamfi, Paa Kofi Tawiah, **Ansah, Charles**, Mensah, Kwesi Boadu (2025). Increased levels of pre-treatment drug resistance of human immunodeficiency virus type 1 subtypes in people living with HIV in Ghana: A cross-sectional study. *Health Sciences Investigations Journal*. https://doi.org/10.46829/hsijournal.2025.6.7.1.1187-1195

10. Godfred Ansah Asiamah, Arnold Donkor Forkuo, Bernard Kofi Turkson, Nana Ama Mireku- Gyimah, Aaron Opoku Antwi, **Charles Ansah**, Lydia Serwaa Gyimah (2025). Pharmacovigilance of herbal medicines in Ghana- Knowledge, perception and practice. *Scientific African*. https://doi.org/10.1016/j.sciaf.2025.e02917

11. Joshua Asante, Aliu Moomin, Michael Ofori, Tetteh Jude, Paa Kofi Tawiah Adu-Gyamfi, Maryna Yeshuna, Charles Kwaku Benneh, **Charles Ansah**, Kwesi Boadu Mensah (2024). Polyherbal renal tea extract shows anti-inflammatory and antioxidant effects against gentamicin-induced nephrotoxicity in guinea pigs. *Egyptian Journal of Basic and Applied Sciences*. https://doi.org/10.1080/2314808x.2024.2447123

12. Kwame Opoku-Agyeman, Paa Kofi Tawiah Adu-Gyamfi, **Charles Ansah**, Kwesi Boadu Mensah (2023). Effects of prenatal antibiotic treatment on early infant health: a retrospective study in a rural health facility in Ghana. *African Health Sciences*. https://doi.org/10.4314/ahs.v23i1.44

13. Stephen Mensah Arhin, Kwesi Boadu Mensah, Evans Kofi Agbeno, Isaac Tabiri Henneh, Diallo Abdoul Azize, Abigail Boateng, Kwame Opoku-Agyeman, **Charles Ansah** (2023). Pharmacotherapy for Infertility in Ghana: A Prospective Study on Prescription Patterns and Treatment Outcomes among Women undergoing Fertility Treatment. *Current Therapeutic Research*. https://doi.org/10.1016/j.curtheres.2023.100711

14. Stephen M. Arhin, Kwesi B. Mensah, Evans K. Agbeno, Felix Yirdong, Kwame Opoku-Agyeman, **Charles Ansah** (2023). Psychological distress of Ghanaian couples after unsuccessful treatment for infertility. *Ghana Medical Journal*. https://doi.org/10.4314/gmj.v57i4.4

15. Michael Buenor Adinortey, **Charles Ansah**, Jerry Asiedu-Larbi, Samuel Kojo Kwofie, Ansumana Sandy Bockarie, Precious Barnes, Benjamin Aboagye, Gideon Kofi Helegbe, Daniel Boison, Alexander Kwadwo Nyarko (2022). In vivo inhibition of gastric acid secretions and H+/K+- ATPase activity, and enhancement of mucin activity by Dissotis rotundifolia plant extract. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01317

16. Stephen Mensah Arhin, Kwesi Boadu Mensah, Evans Kofi Agbeno, Diallo Abdoul Azize, Isaac Tabiri Henneh, Eric Agyemang, **Charles Ansah** (2022). Pharmacotherapy of infertility in Ghana: Why do infertile patients discontinue their fertility treatment? *PLoS ONE*. https://doi.org/10.1371/journal.pone.0274635

17. Seth A. Domfeh, Patrick W. Narkwa, Osbourne Quaye, Kwadwo A. Kusi, Bright S. Addy, Sian Lant, Rebecca P. Sumner, Carlos Maluquer de Motes, Gordon A. Awandare, **Charles Ansah**, Mohamed Mutocheluh (2022). The Pharmacologically Active Alkaloid Cryptolepine Activates a Type 1 Interferon Response That Is Independent of MAVS and STING Pathways. *Journal of Immunology Research*. https://doi.org/10.1155/2022/8873536

18. Seth A. Domfeh, Patrick W. Narkwa, Osbourne Quaye, Kwadwo A. Kusi, Gordon A. Awandare, **Charles**

Ansah, Alimatu Salam, Mohamed Mutocheluh (2021). Cryptolepine inhibits hepatocellular carcinoma growth through inhibiting interleukin-6/STAT3 signalling. *BMC Complementary Medicine and Therapies*. https://doi.org/10.1186/s12906-021-03326-x

19. George Owusu, David D. Obiri, George K. Ainooson, Newman Osafo, Aaron O. Antwi, Babatunde M. Duduyemi, **Charles Ansah** (2020). Acetic Acid-Induced Ulcerative Colitis in Sprague Dawley Rats Is Suppressed by Hydroethanolic Extract ofCordia vigneiLeaves through Reduced Serum Levels of TNF-αand IL-6. *International Journal of Chronic Diseases*. https://doi.org/10.1155/2020/8785497
20. Arnold Donkor Forkuo, Kwesi Boadu Mensah, Elvis Ofori Ameyaw, Aaron Opoku Antwi, Nana Kofi Kusi-Boadum, **Charles Ansah** (2020). Antiplasmodial and Antipyretic Activity and Safety Evaluation of the Methanolic Leaf Extract of Murraya exotica (L.). *Journal of Parasitology Research*. https://doi.org/10.1155/2020/1308541
21. Paapa Mensah-Kane, Kwesi Boadu Mensah, Aaron Opoku Antwi, Arnold Donkor Forkuo, **Charles Ansah** (2020). Cryptolepine, the major alkaloid of Cryptolepis sanguinolenta (Lindl.) Schlechter (Apocynaceae), attenuates early and late-phase symptoms of asthma. *Scientific African*. https://doi.org/10.1016/j.sciaf.2020.e00540
22. Aliu Moomin, Kwesi Boadu Mensah, Arnold Donkor Forkuo, Paa Kofi Tawiah Adu-Gyamfi, **Charles Ansah** (2020). Ethanolic stem bark extract of Terminalia ivorensis A. Chev. protects against potassium dichromate–induced nephrotoxicity in rats. *Scientific African*. https://doi.org/10.1016/j.sciaf.2020.e00410
23. Michael Buenor Adinortey, **Charles Ansah**, Benjamin Aboagye, Justice Kwabena Sarfo, Orleans Martey, Alexander Kwadwo Nyarko (2020). Flavonoid-Rich Extract of Dissotis rotundifolia Whole Plant Protects against Ethanol-Induced Gastric Mucosal Damage. *Biochemistry Research International*. https://doi.org/10.1155/2020/7656127
24. Joseph Kwasi Adu, Cedric Dzidzor Kodjo Amengor, Nurudeen Mohammed Ibrahim, Cynthia Amaning-Danquah, **Charles Owusu Ansah**, Dorcas Dzifa Gbadago, Joseph Sarpong-Agyapong (2020). Synthesis and In Vitro Antimicrobial and Anthelminthic Evaluation of Naphtholic and Phenolic Azo Dyes. *Journal of Tropical Medicine*. https://doi.org/10.1155/2020/4850492
25. Kwesi Boadu Mensah, Charles Benneh, Arnold Donkor Forkuo, **Charles Ansah** (2019). Cryptolepine, the Main Alkaloid of the Antimalarial Cryptolepis sanguinolenta (Lindl.) Schlechter, Induces Malformations in Zebrafish Embryos. *Biochemistry Research International*. https://doi.org/10.1155/2019/7076986
26. Stephen Mensah Arhin, Kwesi Boadu Mensah, Evans Agbeno, Vitus Sambo Badii, **Charles Ansah** (2019). Pharmacotherapy of infertility in Ghana: retrospective study at the cape coast teaching hospital. *Journal of Pharmaceutical Policy and Practice*. https://doi.org/10.1186/s40545-019-0191-0
27. Alexander Weremfo, MichaelBuenor Adinortey, **Charles Ansah**, CynthiaAyefoumi Adinortey, GenevieveEtornam Adukpo, ElvisOfori Ameyaw, AlexanderKwadwo Nyarko (2018). DNA damage protecting activity and antioxidant potential of Launaea taraxacifolia leaves extract. *Journal of Natural Science Biology and Medicine*. https://doi.org/10.4103/jnsbm.jnsbm_22_17
28. MichaelBuenor Adinortey, **Charles Ansah**, CynthiaAyefoumi Adinortey, Justine McGiboney, Alexander Nyarko (2018). In vitro H+/K+-ATPase Inhibition, Antiradical effects of a flavonoid-rich fraction of Dissotis rotundifolia, and In silico PASS Prediction of its isolated compounds. *Journal of Natural Science Biology and Medicine*. https://doi.org/10.4103/jnsbm.jnsbm_104_17
29. Michael Buenor Adinortey, **Charles Ansah**, Cynthia Ayefoumi Adinortey, Ansumana Sandy Bockarie, Martin Tangnaa Morna, Damian H. Amewowor (2018). Isolation of Helicobacter pylori from Gastric Biopsy of Dyspeptic Patients in Ghana and In Vitro Preliminary Assessment of the Effect of Dissotis rotundifolia Extract on Its Growth. *Journal of Tropical Medicine*. https://doi.org/10.1155/2018/8071081
30. Kwesi Boadu Mensah, Kwame Opoku-Agyeman, **Charles Ansah** (2017). Antibiotic use during pregnancy: a retrospective study of prescription patterns and birth outcomes at an antenatal clinic in rural Ghana. *Journal of Pharmaceutical Policy and Practice*. https://doi.org/10.1186/s40545-017-0111-0
31. Arnold Donkor Forkuo, **Charles Ansah**, David Pearson, Werner Gertsch, Amanda Cirello, Adam Amaral, Jaimie Spear, Colin W. Wright, Caroline Rynn (2017). Identification of cryptolepine metabolites in rat and human hepatocytes and metabolism and pharmacokinetics of cryptolepine in Sprague Dawley rats. *BMC*

Pharmacology and Toxicology. https://doi.org/10.1186/s40360-017-0188-8

32. Arnold Donkor Forkuo, **Charles Ansah**, Kwesi Boadu Mensah, Kofi Annan, Ben Gyan, Anjo Theron, Dalu Mancama, Colin W. Wright (2017). In vitro anti-malarial interaction and gametocytocidal activity of cryptolepine. *Malaria Journal*. https://doi.org/10.1186/s12936-017-2142-z
33. Lydia Enyonam Kuatsienu, **Charles Ansah**, Michael Buenor Adinortey (2017). Toxicological evaluation and protective effect of ethanolic leaf extract of Launaea taraxacifolia on gentamicin induced rat kidney injury. *Asian Pacific Journal of Tropical Biomedicine*. https://doi.org/10.1016/j.apjtb.2017.06.011
34. **Charles Ansah**, Jemima Aggrey Appiah, Kwesi Boadu Mensah, Priscilla Kolibea Mante (2016). AQUEOUS LEAF EXTRACT OF CARICA PAPAYA (CARICACEAE) LINN. CAUSES LIVER INJURY AND REDUCED FERTILITY IN RATS. *International Journal of Pharmacy and Pharmaceutical Sciences*.
35. A Donkor Forkuo, **C Ansah**, B Gyan, D Mancama, A Theron (2016). In vitro antimalarial interaction and transmission-blocking activity of cryptolepine. *Planta Medica*. https://doi.org/10.1055/s-0036-1596329
36. **Charles Ansah**, Michael Buenor Adinortey, Jerry Asiedu-Larbi, Benjamin Aboagye, Du-Bois Asante, Alexander Kwadwo Nyarko (2016). In vivo assessment of the toxic potential of Dissotis rotundifolia whole plant extract in Sprague–Dawley rats. *Asian Pacific Journal of Tropical Biomedicine*. https://doi.org/10.1016/j.apjtb.2016.04.010
37. Kwesi B. Mensah, **Charles Ansah** (2016). Irrational use of antibiotics and the risk of diabetes in Ghana. *Ghana Medical Journal*. https://doi.org/10.4314/gmj.v50i2.9
38. Arnold D. Forkuo, **Charles Ansah**, Kwesi M. Boadu, Johnson N. Boampong, Elvis O. Ameyaw, Ben A. Gyan, Andrea T. Arku, Michael F. Ofori (2016). Synergistic anti-malarial action of cryptolepine and artemisinins. *Malaria Journal*. https://doi.org/10.1186/s12936-016-1137-5
39. **Charles Ansah**, Aliu Moomin, Kwesi Boadu (2016). Terminalia ivorensis A. Chev. Ethanolic Stem Bark Extract Protects Against Gentamicin-Induced Renal and Hepatic Damage in Rats. *Journal of Applied Pharmaceutical Science*. https://doi.org/10.7324/japs.2016.60425
40. Lydia Otoo, George Koffuor, **Charles Ansah**, Kwesi Mensah, Charles Benneh, Inemesit Ben (2015). Assessment of an ethanolic seed extract of Picralima nitida ((Stapf) Th. and H. Durand) on reproductive hormones and its safety for use. *Journal of Intercultural Ethnopharmacology*. https://doi.org/10.5455/jice.20151030085004
41. **C Ansah**, K B Mensah (2013). A review of the anticancer potential of the antimalarial herbal cryptolepis sanguinolenta and its major alkaloid cryptolepine. *PubMed*.
42. Michael Buenor Adinortey, **Charles Ansah**, Isaac Galyuon, Alexander Nyarko (2013). In VivoModels Used for Evaluation of Potential Antigastroduodenal Ulcer Agents. *Ulcers*. https://doi.org/10.1155/2013/796405
43. Phyllis Elsie Dadzeasah, **Charles Ansah** (2013). SPATHODEA CAMPANULATA EXTRACT ATTENUATES ACETAMINOPHEN-INDUCED HEPATIC INJURY IN MICE. *International Journal of Pharmaceutical Sciences and Drug Research*. https://doi.org/10.25004/ijpsdr.2013.050405
44. **C Ansah**, E Oppong, E Woode (2011). Subacute Oral Toxicity Assessment of Alchornea cordifolia (Schumach and Thonn) Müll Arg (Euphorbiaceae) Extract in Rats. *Tropical Journal of Pharmaceutical Research*. https://doi.org/10.4314/tjpr.v10i5.7
45. GK Ainooson, G Owusu, E Woode, **C Ansah**, K Annan (2011). Trichilia monadelpha Bark Extracts Inhibit Carrageenan-Induced Foot-Oedema in the 7-Day Old Chick and the Oedema Associated with Adjuvant-Induced Arthritis in Rats. *African Journal of Traditional Complementary and Alternative Medicines*. https://doi.org/10.4314/ajtcam.v9i1.2
46. MT Bayor, **C Ansah**, M Duwiejua, AK Abaitey (2009). Alchornea Cordifolia (Euphorbiaceae), the Major Constituent of Antiasthmatic Herbal Formulations in Ghana, Stimulates β- adrenoceptors. *Journal of the Ghana Science Association*. https://doi.org/10.4314/jgsa.v10i2.18025
47. R. N.K. Gyapong, M. Duwiejua, F. Y. Bio, E. Woode, **C. Ansah**, F. T. Owusu-Daaku, K. O. Buabeng (2009). Characterization and Treatment of Severe Malaria in Hospitalized Children at a Ghanaian District Hospital. *The Open Tropical Medicine Journal*. https://doi.org/10.2174/1874315300902010039

48. **C Ansah**, E Oppong, E Woode, M Duwiejua (2009). Toxicity studies on Alchornea cordifolia leaf extract in mince. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v29i1.46424

49. **Charles Ansah**, H. R. Otsyina, Mahama Duwiejua, Eric Woode, F.A. Aboagye, K. G. Aning (2009). Toxicological assessment of Cryptolepis sanguinolenta for possible use in veterinary medicine. *Journal of Veterinary Medicine and Animal Health*. https://doi.org/10.5897/jvmah.9000030

50. Eric Woode, George K. Ainooson, Eric Boakye-Gyasi, **Charles Ansah**, David D. Obiri, George A Koffour, Abraham Yeboah Mensah, Mahama Duwiejua (2008). Anti-arthritic and antioxidant properties of the ethanolic stem bark extract of Newbouldia laevis (P. Beauv.) Seaman ex Bureau (Bignoniaceae). *Journal of Medicinal Plants Research*.

51. E Woode, **C Ansah**, G K Ainooson, W M Abotsi, A Y Mensah, M Duweijua (2008). Anti-inflammatory and antioxidant properties of the root extract of Carissa edulis (forsk.) Vahl (apocynaceae). *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v27i3.33054

52. E Woode, F Amissah, M Duwiejua, **C Ansah**, TC Fleischer, IK Sawer (2008). Effects of Tetrapleura Tetraptera (Taub) Fruit Extract On Some Isolated Tissues: Possible Mechanism(S) of Antihypertensive Action. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v28i1.33075

53. **C Ansah**, NJ Gooderham (2005). Reactive oxygen species is associated with cryptolepine cytotoxicity. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v25i1.32926