# Prof. Kwabena Ofori-Kwakye

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## PROFILE

Kwabena  Ofori-Kwakye is a registered Pharmacist, Fellow of the Ghana College of Pharmacists, and Professor of Pharmaceutics and Drug Delivery, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana. His research interests include Controlled drug delivery, Pharmaceutical formulation development, Development of pharmaceutical excipients, Pharmaceutical nanotechnology and Development of herbal medicinal products

## RESEARCH

| | |
|---|---|
| Interests | Pharmaceutics · Drug Delivery · Pharmaceutical Technology · Pharmaceutical nanotechnology · Pharmacy |
| Areas | Food Science · Plant Science · Pharmaceutical Science · Economics and Econometrics · Endocrinology, Diabetes and Metabolism · Public Health, Environmental and Occupational Health |

## RESEARCH SUMMARY

| 75 | 1,427 | 21 | 37 | 1.11 | 5% |
|---|---|---|---|---|---|
| Publications | Citations | h-index | i10-index | Field-weighted impact | World top 10% |

Counted from the 75 publications listed below, 2001–2026. Field-weighted impact is the mean over the 43 works scored for it; 1.00 is the world average for works of the same field, type and year. 2 of the 43 papers scored for it are among the world's most cited tenth for their field, type and year.

## POSITIONS

**Professor** 1994–present
Pharmaceutics, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

## EDUCATION AND QUALIFICATIONS

**PhD Pharmaceutics** 1998–2002
School of Pharmacy and Pharmaceutical Sciences, University of Manchester, Manchester, United Kingdom

**MSc Pharmaceutical Technology (with Distinction)** 1992–1993
Pharmacy, King's College London, London, United Kingdom

**B. Pharm (Bachelor of Pharmacy)** 1985–1989
Faculty of Pharmacy and Pharmaceutical Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

## PUBLICATIONS

### Journal articles 73

1. Mary-Ann Archer, **Kwabena Ofori-Kwakye**, Raphael Johnson, Ernest Amponsah Asiamah, Wisdom Ahlidja, Mustapha Abubakar Ahmed, Isaac Tabiri Henneh (2026). Assessment of the Safety Profile of Purified Pentadesma butyracea (Clusiaceae) Gum Intended as a Pharmaceutical Excipient. *Journal of Toxicology*. https://doi.org/10.1155/jt/4227246
2. Mary-Ann Archer, **Kwabena Ofori-Kwakye**, Raphael Johnson, Isaac Yaw Attah, Frederick William Akuffo Owusu, Prince George Jnr Acquah, Samuel Lugrie Kipo (2026). Investigation of the drug release modifying property of Pentadesma butyracea gum in diclofenac sodium matrix tablets. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0341668
3. Mary-Ann Archer, **Kwabena Ofori-Kwakye**, Raphael Johnson, Frederick William Akuffo Owusu, Yaa Asantewaa Osei, Sophia Kusi-Addai, Kezia Nyarkoh, Noble Kuntworbe (2026). Pharmaceutical Evaluation of the Suspending Properties of Pentadesma butyracea Gum in Biphasic Liquid Preparations of Diffusible and Indiffusible Powders. *Advances in Pharmacological and Pharmaceutical Sciences*. https://doi.org/10.1155/adpp/2120600
4. Mary-Ann Archer, **Kwabena Ofori-Kwakye**, Raphael Johnson, Isaac Yaw Attah, Samuel Lugrie Kipo, Mariam El Boakye-Gyasi, Frederick William Akuffo Owusu, Emmanuel Awintiig Adakudugu, Doris Kumadoh (2025). Evaluation of the binder effect of Pentadesma butyracea gum on the mechanical characteristics of paracetamol tablets. *Scientific African*. https://doi.org/10.1016/j.sciaf.2025.e03147
5. **K Ofori-Kwakye**, R Johnson, M El Boakye-Gyasi, YA Osei (2025). Formulation and Evaluation Of Poly Herbal Anti-Diabetic Capsule Dosage Form. *Indonesian Journal of Pharmaceutics*. https://www.researchgate.net/profile/Ernest-Aggrey/publication/414687828_Formulation_and_Evaluation_Of_Poly_Herbal_Anti-Diabetic_Capsule_Dosage_Form/links/6ab4a504756a0b12f4f32f9c/Formulation-and-Evaluation-Of-Poly-Herbal-Anti-Diabetic-Capsule-Dosage-Form.pdf
6. Simon Nyarko, **Kwabena Ofori-Kwakye**, Raphael Johnson, Noble Kuntworbe, Desmond Asamoah Bruce Otu, Denis Dekugmen Yar, Yaa Asantewaa Osei (2024). Development of the RP-HPLC Method for Simultaneous Determination and Quantification of Artemether and Lumefantrine in Fixed-Dose Combination Pharmaceutical Dosage Forms. *Advances in Pharmacological and Pharmaceutical Sciences*. https://doi.org/10.1155/2024/3212298
7. Frederick William Akuffo Owusu, Mariam El Boakye-Gyasi, Marcel Tunkumgnen Bayor, **Kwabena Ofori-Kwakye**, Prince George Jnr Acquah, Emmanuella Anowaa Quarcoo, Jennifer Asare, Benjamin Amponsah Anokye, Paul Kweku Tandoh (2024). Evaluation of Okra Pectin from Different Genotypes as Effective Suspending Agents in Pharmaceutical Formulations. *Journal of Pharmacy*. https://doi.org/10.31436/jop.v4i1.251
8. Samuel Lugrie Kipo, Noble Kuntworbe, Mariam El Boakye-Gyasi, Yaa Asantewaa Osei, Frederick William Akuffo Owusu, Raphael Johnson, **Kwabena Ofori-Kwakye**, Marcel Tunkumgnen Bayor (2024). Evaluation of the Physicochemical and Micromeritic Properties of Exudate Gum of Cussonia arborea Stem Bark in Conventional Tablet Formulation. *Journal of Chemistry*. https://doi.org/10.1155/2024/7840644
9. Simon Nyarko, **Kwabena Ofori-Kwakye**, Raphael Johnson, Noble Kuntworbe, Denis Dekugmen Yar (2024). Investigating the Presence of Falsified and Poor-Quality Fixed-Dose Combination Artemether-Lumefantrine Pharmaceutical Dosage Forms in Kumasi, Ghana. *Advances in Pharmacological and Pharmaceutical Sciences*. https://doi.org/10.1155/2024/2650540
10. KA Asamoa Mensa, Noble Kuntworbe, Yaa Asantewaa Osei, Mariam El Boakye-Gyasi, Frederick William Akuffo Owusu, Lawrence Michael Obeng, Osei-Asibey Antwi, Winifred Naa Adoley, **Kwabena Ofori-Kwakye** (2024). Physicochemical and Emulsifying Properties of Melia azedarach Gum. *Scientifica*. https://doi.org/10.1155/2024/3308441
11. Frederick William Akuffo owusu, **K Ofori-Kwakye**, R Johnson, Isaac Yaw Attah, Emmanuel Adakudugu (2023). C41-Investigation of the binding properties of purified Pentadesma butyracea gum: Anatural

alternative to a synthetic polymer. *Journal Africain de Technologie Pharmaceutique et Biopharmacie (JATPB)*. https://www.soapgi-jatpb.org/index.php/jatpb/article/view/72

12. Julia Afrakoma Ansong, Emmanuel Asante, Raphael Johnson, Mariam El Boakye-Gyasi, Noble Kuntworbe, Frederick William Akuffo Owusu, **Kwabena Ofori-Kwakye** (2023). Formulation and Evaluation of Herbal-Based Antiacne Gel Preparations. *BioMed Research International*. https://doi.org/10.1155/2023/7838299
13. Kipo, Samuel L., Osei-Asare, Christina, **Ofori-Kwakye, Kwabena**, Buabeng, Kwame O., Anto, Berko P. (2023). Physician and patient preferences for sustained release antihypertensive preparations in the Kumasi metropolis, Ghana. *Afrischolar Discovery*. https://doi.org/10.60787/wapcp-26-1-60
14. Samuel Lugrie Kipo, **Kwabena Ofori-Kwakye**, Noble Kuntworbe, Raphael Johnson, Mariam El Boakye-Gyasi, Yaa Asantewaa Osei, Frederick Akuffo Owusu (2023). Physicochemical and Microbiological Characteristics of Stem Bark Exudate Gum of Cordia millenii Tree in Conventional Release Tablets. *The Scientific World JOURNAL*. https://doi.org/10.1155/2023/9118067
15. Samuel Lugrie Kipo, **Kwabena Ofori-Kwakye**, Noble Kuntworbe, Stephen Yao Gbedema, Kwesi Boadu Mensah, Paul Poku Sampene Ossei (2023). Preliminary health risk assessment of two exudate gums as pharmaceutical excipients. *Scientific African*. https://doi.org/10.1016/j.sciaf.2023.e01648
16. Ivan K. Simpson, Frederick W. A. Owusu, Mariam E. Boakye-Gyasi, Philomena Entsie, Marcel T. Bayor, **Kwabena Ofori-Kwakye** (2022). Pharmaceutical Applications of Glucose Syrup from High Quality Cassava Flour in Oral Liquid Formulations. *International Journal of Food Science*. https://doi.org/10.1155/2022/6869122
17. Louisa C. Sarkodie, Philomena Entsie, Mariam E. Boakye-Gyasi, Frederick W.A. Owusu, Marcel T. Bayor, **Kwabena Ofori-Kwakye** (2021). Evaluation of the binding and disintegrating properties of gum obtained from the stem bark of Cinnamomum zeylanicum. *South African Journal of Science*. https://doi.org/10.17159/sajs.2021/11550
18. Esther Eshun Oppong, Noble Kuntworbe, Yaa Asantewaa Osei, **Kwabena Ofori-Kwakye**, Ofosua Adi-Dako, Ernest Obese (2021). Physicochemical characterisation of Piptadeniastrum africana (Hook. F.) gum, a potential pharmaceutical excipient. *Scientific African*. https://doi.org/10.1016/j.sciaf.2021.e00925
19. Frederick William Akuffo Owusu, Mariam El Boakye-Gyasi, Jacob Kwaku Agbenorhevi, Marcel Tunkumgnen Bayor, **Kwabena Ofori-Kwakye** (2021). Potential and Comparative Tablet Disintegrant Properties of Pectin Obtained from Five Okra Genotypes in Ghana. *Scientifica*. https://doi.org/10.1155/2021/2902335
20. Frederick W. A. Owusu, Mariam E. Boakye-Gyasi, Philomena Entsie, Marcel T. Bayor, **Kwabena Ofori-Kwakye** (2021). Utilization of Pectin from Okra as Binding Agent in Immediate Release Tablets. *BioMed Research International*. https://doi.org/10.1155/2021/6002286
21. J Raphael, MT Bayor, **K Ofori-Kwakye** (2020). Formulation and evaluation of clarithromycin-loaded self-micro emulsified drug delivery system. *International Journal of Pharmaceutical Sciences and Research*. https://scholar.google.com/scholar?cluster=16103507635953745397&hl=en&oi=scholarr
22. Frederick W.A. Owusu, Mariam E. Boakye-Gyasi, Priscilla K. Mante, Edmund Ekuadzi, **Kwabena Ofori-Kwakye**, Eric Woode (2019). Formulation and evaluation of sustained release matrix tablets of capparis erythrocarpos roots extract to improve patient compliance in management of arthritis. *Scientific African*. https://doi.org/10.1016/j.sciaf.2019.e00172
23. J Raphael, **K Ofori-Kwakye** (2019). Self-micro emulsifying drug delivery system: a potential solution to the challenges of oral delivery of poorly water-soluble drugs. *International Journal of Pharmaceutical Sciences Review and Research*.
24. Ofosua Adi-Dako, **Kwabena Ofori-Kwakye**, Kennedy Kwami Edem Kukuia, Jerry Asiedu-Larbi, Alexander Kwadwo Nyarko, Doris Kumadoh, Grace Frimpong (2018). Cocoa Pod Husk Pectin Intended as a Pharmaceutical Excipient Has No Adverse Effects on Haematological Parameters in Sprague Dawley Rats. *Journal of Pharmaceutics*. https://doi.org/10.1155/2018/1459849
25. Noble Kuntworbe, Francis A. Acquah, Raphael Johnson, **Kwabena Ofori-Kwakye** (2018). Comparison of the physicochemical properties and in vivo bioavailability of generic and innovator artemether-lumefantrin tablets in Kumasi, Ghana. *Journal of Pharmacy & Pharmacognosy Research*. https://doi.org/

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26. Regina A. Kwakye, Noble Kuntworbe, **Kwabena Ofori-Kwakye**, Yaa A. Osei (2018). Detection, quantification, and investigation of the red blood cell partitioning of cryptolepine hydrochloride. *Journal of Pharmacy & Pharmacognosy Research*. https://doi.org/10.56499/jppres17.359_6.4.260
27. Ofosua Adi-Dako, **Kwabena Ofori-Kwakye**, Seth Kwabena Amponsah, Isaac Boamah, Noble Kuntworbe, Esther Eshun Oppong (2018). Potential of Cocoa Pod Husk Pectin-Based Modified Release Capsules as a Carrier for Chronodelivery of Hydrocortisone in Sprague-Dawley Rats. *Journal of Drug Delivery*. https://doi.org/10.1155/2018/9825363
28. Grace Frimpong, **Kwabena Ofori-Kwakye**, Noble Kuntworbe, Kwame Ohene Buabeng, Yaa Asantewaa Osei, Mariam El Boakye-Gyasi, Ofosua Adi-Dako (2018). Quality Assessment of Some Essential Children's Medicines Sold in Licensed Outlets in Ashanti Region, Ghana. *Journal of Tropical Medicine*. https://doi.org/10.1155/2018/1494957
29. Ofosua Adi-Dako, **Kwabena Ofori-Kwakye**, Kennedy K.E. Kukuia, Jerry Asiedu-Larbi, Alexander Nyarko, Doris Kumadoh, Christina Osei-Asare (2018). Subchronic toxicity studies of cocoa pod husk pectin intended as a pharmaceutical excipient in Sprague Dawley rats. *Journal of Pharmacy & Pharmacognosy Research*. https://doi.org/10.56499/jppres17.353_6.4.271
30. M. Salifou, J.B.L.S. Tignegre, P. Tongoona, S. Offei, **K. Ofori**, E. Danquah (2017). Differential responses of 15 cowpea genotypes to three Striga hot spots in Niger. *International Journal of Biological and Chemical Sciences*. https://doi.org/10.4314/ijbcs.v11i4.2
31. **Kwabena Ofori-Kwakye** (2017). Enhancing topical delivery of resveratrol through a nanosizing approach. *Planta medica*. https://doi.org/10.1055/s-0042-103688
32. Frank Kumah Adjei, Yaa Asantewaa Osei, Noble Kuntworbe, **Kwabena Ofori-Kwakye** (2017). Evaluation of the Disintegrant Properties of Native Starches of Five New Cassava Varieties in Paracetamol Tablet Formulations. *Journal of Pharmaceutics*. https://doi.org/10.1155/2017/2326912
33. Ofosua Adi-Dako, **Kwabena Ofori-Kwakye**, Mariam El Boakye-Gyasi, Samuel Oppong Bekoe, Samuel Okyem (2017). In Vitro Evaluation of Cocoa Pod Husk Pectin as a Carrier for Chronodelivery of Hydrocortisone Intended for Adrenal Insufficiency. *Journal of Drug Delivery*. https://doi.org/10.1155/2017/8284025
34. Ofosua Adi-Dako, Samuel Oppong Bekoe, **Kwabena Ofori-Kwakye**, Enoch Appiah, Paul Peprah (2017). Novel HPLC Analysis of Hydrocortisone in Conventional and Controlled-Release Pharmaceutical Preparations. *Journal of Pharmaceutics*. https://doi.org/10.1155/2017/9495732
35. N Kuntworbe, R Johnson, **K Ofori-Kwakye** (2017). Qualitative and quantitative assessment of cryptolepis-based herbal formulations within the Accra and Kumasi metropolis in Ghana. *Journal of Innovations in Pharmaceutical and Biological Sciences (JIPBS)*. https://scholar.google.com/scholar?cluster=13188464241186120718&hl=en&oi=scholarr
36. Grace Frimpong, **Kwabena Ofori-Kwakye** (2016). Access to Essential Medicines in Ghana: A Survey of Availability of Children's Medicines in Medicine Outlets in the Ashanti Region. *Journal of Applied Pharmaceutical Science*. https://doi.org/10.7324/japs.2016.601003
37. MARY-ANN ARCHER, **Kwabena Ofori-Kwakye**, Samuel Lugrie Kipo, Mariam El Boakye-Gyasi, Mary-Ann Fosu (2016). Development of Oral Dissolvable Films of Diclofenac Sodium for Osteoarthritis UsingAlbiziaandKhayaGums as Hydrophilic Film Formers. *Journal of Drug Delivery*. https://doi.org/10.1155/2016/6459280
38. MARY-ANN ARCHER, **K Ofori-Kwakye**, N Kuntworbe (2016). Investigation of blends of cashew and xanthan gums as a potential carrier for colonic delivery of Ibuprofen. *International Journal of PharmTech Research*. https://hero.epa.gov/reference/8281849/
39. Ofosua Adi-Dako, **Kwabena Ofori-Kwakye**, Samuel Frimpong Manso, Mariam EL Boakye-Gyasi, Clement Sasu, Mike Pobee (2016). Physicochemical and Antimicrobial Properties of Cocoa Pod Husk Pectin Intended as a Versatile Pharmaceutical Excipient and Nutraceutical. *Journal of Pharmaceutics*. https://doi.org/10.1155/2016/7608693

40. Christina Osei-Asare, Samuel Kipo, **Kwabena Ofori-Kwakye**, Mariam Boakye-Gyasi (2015). Comparative in vitro dissolution of commercially available sustained release nifedipine tablet brands in the Kumasi Metropolis, Ghana. *Journal of Applied Pharmaceutical Science*. https://doi.org/10.7324/japs.2015.50809

41. MARIAM EL BOAKYE-GYASI, N Kuntworbe, MT Bayor, **K Ofori-Kwakye** (2015). Development and In Vitro Evaluation of Oral Gels and Vaginal Pessaries from Crude Extracts of Four Ghanaian Medicinal Plants Intended for the Treatment Of Candidiasis. *World Journal of Pharmaceutical Research*. https://doi.org/10.5555/20153328683

42. **Kwabena Ofori-Kwakye**, Kwadwo Amanor Mfoafo, Samuel Lugrie Kipo, Noble Kuntworbe, Mariam El Boakye-Gyasi (2015). Development and evaluation of natural gum-based extended release matrix tablets of two model drugs of different water solubilities by direct compression. *Saudi Pharmaceutical Journal*. https://doi.org/10.1016/j.jsps.2015.03.005

43. Doris Kumadoh, Joseph Adotey, **Kwabena Ofori-Kwakye**, Samuel Kipo, Thomford Prah, Sowah Patterson (2015). Development of oral capsules from Enterica herbal decoction-a traditional remedy for typhoid fever in Ghana. *Journal of Applied Pharmaceutical Science*. https://doi.org/10.7324/japs.2015.50414

44. Akwasi Sougi, **Kwabena Ofori-Kwakye**, Noble Kuntworbe, Samuel Kipo, Mariam Boakye-Gyasi (2015). Evaluation of the Physicochemical and in vitro Dissolution Properties of Metformin Hydrochloride Tablet Brands Marketed in Five Cities in Ghana. *Journal of Pharmaceutical Research International*. https://doi.org/10.9734/bjpr/2016/21862

45. SL Kipo, **K Ofori-Kwakye**, KO Buabeng (2015). Physician and patient preferences for sustained release antihypertensive preparations in the Kumasi Metropolis, Ghana. *West African Journal of Pharmacy*.

46. **K Ofori-Kwakye**, I Ayensu, SL Kipo, M El Boakye-Gyasi (2014). Adulteration of Ghanaian topical herbal preparations with dexamethasone. *World Journal of Pharmacy and Pharmaceutical Sciences*. https://www.researchgate.net/profile/Kwabena-Ofori-Kwakye/publication/262763501_Adulteration_of_Ghanaian_topical_herbal_preparations_with_dexamethasone/links/00b49538c6cff006ff000000/Adulteration-of-Ghanaian-topical-herbal-preparations-with-dexamethasone.pdf

47. Kwesi Prah Thomford, **K Ofori-Kwakye**, SL Kipo (2014). Formulation of oral capsules from asena herbal decoction used traditionally in Ghana for the treatment of arthritis. *World Journal Pharmacy and Pharmaceutical Science*. https://www.researchgate.net/profile/Kwabena-Ofori-Kwakye/publication/264404741_FORMULATION_OF_ORAL_CAPSULES_FROM_ASENA_HERBAL_DECOCTION_USED_TRADITIONALLY_IN_GHANA_FOR_THE_TREATMENT_OF_ARTHRITIS/links/53db95e10cf2a76fb667a5e2/FORMULATION-OF-ORAL-CAPSULES-FROM-ASENA-HERBAL-DECOCTION-USED-TRADITIONALLY-IN-GHANA-FOR-THE-TREATMENT-OF-ARTHRITIS.pdf

48. SL Kipo, ESTHER ESHUN Oppong, **K Ofori-Kwakye** (2014). Physicochemical evaluation and tablet formulation properties of shea tree gum. *Asian J Pharm Sci*. https://scholar.google.com/scholar?cluster=17870973949512479370&hl=en&oi=scholarr

49. **K Ofori-Kwakye**, SL Kipo (2014). Potential of aqueous extract of Hibiscus sabdariffa calyces as coloring agent in three pediatric oral pharmaceutical formulations. *Journal of Applied Pharmaceutical Science*. https://doi.org/10.7324/japs.2014.41201

50. **K Ofori-Kwakye**, E Obese, ME Boakye-Gyasi (2013). Formulation and in-vitro evaluation of sustained release diclofenac sodium matrix tablets using blends of cashew gum, xanthan gum and hydroxypropylmethylcellulose as …. *Indian Journal of Novel Drug Delivery*. https://ir.ucc.edu.gh/items/4b445b03-793c-424f-9d34-b4df0c97ca89

51. **K Ofori-Kwakye**, M El Boakye-Gyasi (2012). Mechanical and tablet coating properties of cashew tree (anacardium occidentale l) gum-based films. *Asian Journal of Pharmaceutical and Clinical Research*. https://www.academia.edu/download/46547428/MECHANICAL_AND_TABLET_COATING_PROPERTIES20160616-30374-19ldkt3.pdf

52. **K Ofori-Kwakye**, M El-Duah (2012). Substandard artemisinin-based antimalarial medicines in licensed retail pharmaceutical outlets in ghana. *Journal of Vector Borne Diseases*. https://doi.org/10.4103/0972-9062.213452

53. Yaa Asantewaa Osei, **K Ofori-Kwakye**, SL Kipo, VE Boamah, R Johnson (2011). Investigation of the emulsifying and suspending potential of cashew tree gum in pharmaceutical formulations. *International journal of Pharmacy and Pharmaceutical sciences*. https://www.academia.edu/download/53018283/Investigation_of_the_emulsifying_and_sus20170506-5074-1h2e823.pdf

54. VE Boamah, SY Gbedema, **K Ofori-Kwakye** (2011). Microbial quality of household water sources and incidence of diarrhoea in three peri-urban communities in Kumasi, Ghana. *Journal of pharmaceutical Sciences and Research*. https://scholar.google.com/scholar?cluster=24374171158311657O8&hl=en&oi=scholarr

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61. MT Bayor, SL Kipo, **K Ofori-Kwakye** (2010). The accuracy and quality of household spoons and enclosed dosing devices used in the administration of oral liquid medications in Ghana. *Int J Pharm Pharm Sci*. https://scholar.google.com/scholar?cluster=4591536236860508855&hl=en&oi=scholarr

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### Reports 1

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### Theses 1

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