Prof. Noble Kuntworbe

Department of Pharmaceutics
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RESEARCH

Interests	Formulation Sciences · Biopharmaceutics
Areas	Food Science · Public Health, Environmental and Occupational Health · Pharmaceutical Science · Molecular Biology · Plant Science · Analytical Chemistry

RESEARCH SUMMARY

42	450	12	13	0.94	4%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 42 publications listed below, 2006–2026. Field-weighted impact is the mean over the 27 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 27 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Associate Professor 2005–present
Pharmaceutics, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

Associate Professor 2005–present
Pharmaceutics, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Pharmacist 2002–present
Pharmacy Council Ghana, Accra, Ghana

PhD 2009–2012
Pharmaceutics, University of Auckland, Auckland, New Zealand

MPharm (Pharmaceutics) 2002–2004
Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Certificate (Management of Drug Supplies 2002–2003
- Commonwealth Pharmaceutical Association (CPA), Abadeen, United Kingdom

BPharm 1996–2000
Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

DISTINCTIONS, MEMBERSHIPS AND SERVICE

Controlled Release Society 2010–present
Auckland, New Zealand

Academic and Social Pharmacists Association of the Pharmaceutical Society of Ghana 2005–present
Kumasi, Ghana

Pharmaceutical Society of Ghana 2002–present
Accra, Ghana

PUBLICATIONS

Journal articles 40

1. Lawrence Michael Obeng, Yaa Asantewa Osei, Kofi Acheampong Asamoa Mensa, **Noble Kuntworbe**, Winifred Naa Adoley, Bridget Nana Ama Konadu, Emmanuel Bonaventure Cobbbinah, Maurice Fouillard, Frederick William Akuffo Owusu (2026). In Vitro Release of Diclofenac From Synthetic Fatty Bases; Effect of Surfactants. *Journal of Surfactants and Detergents*. https://doi.org/10.1002/jsde.70051
2. 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
3. Lawrence Michael Obeng, Yaa Asantewa Osei, **Noble Kuntworbe**, Frederick William Akuffo Owusu, Ralph Johnson, K. A. Asamoa Mensa, Osei-Asibey Antwi, Winifred Naa Adoley (2026). Quality and Interbatch Consistency Assessment of Selected Herbal Capsules Sold in the Kumasi Metropolis of Ghana. *Journal of Chemistry*. https://doi.org/10.1155/joch/6766388
4. Olufunke D. Akin-Ajani, **Noble Kuntworbe**, Oluwatoyin A. Odeku (2025). Coconut Oil and Shea Butter as Lipids for the Formulation of Ciprofloxacin-Loaded Nanoparticles. *Journal of Pharmaceutical Innovation*. https://doi.org/10.1007/s12247-025-09922-5
5. Olawale Olawumi Ola, Benjamin Obukowho Emikpe, **Noble Kuntworbe**, Michael Ayodele Odeniyi, Theophilus Aghogho Jarikre, Opeyemi Mayowa Onilude, Yaa Asantewaa Osei, Derrick Adu Asare (2024). Development of cashew-alginate microbeads and powdered dose forms: prospects for oral vaccine delivery in chickens. *Journal of Immunoassay and Immunochemistry*. https://doi.org/10.1080/15321819.2024.2393184
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. Derrick Adu Asare, BO Emikpe, **N Kuntworbe** (2024). Evaluating Cashew Tree Gum as A Potential Vaccine Carrier: Purification. *Phytochemical Analysis and Biocompatibility Assessment. Trop J Nat Prod Res*. https://www.researchgate.net/profile/Olawale-Ola-2/publication/384594708_Evaluating_Cashew_Tree_Gum_as_A_Potential_Vaccine_Carrier_Purification_Phytochemical_Analysis_and_Biocompatibility_Assessment/links/66fe5e24b753fa724d570f20/Evaluating-Cashew-Tree-Gum-as-A-Potential-Vaccine-Carrier-Purification-Phytochemical-Analysis-and-Biocompatibility-Assessment.pdf
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. 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

12. 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

13. 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

14. Samuel Oppong Bekoe, Emmanuel Orman, Samuel Awenteka Adjabui, Abena Amponsaa Brobbey, James Oppong-Kyekyeku, Kwabena Frimpong-Manso Opuni, **Noble Kuntworbe**, Samuel Asare-Nkansah (2022). Development and Validation of an Ion-Pair HPLC-UV Method for the Quantitation of Quinoline and Indoloquinoline Alkaloids in Herbal and Pharmaceutical Antimalarial Formulations. *Journal of Chemistry*. https://doi.org/10.1155/2022/4625954

15. **N Kuntworbe**, FWA Owusu (2022). In vitro quality evaluation of fourteen 500 mg paracetamol tablets brands in Ghana. *Paracetamol Tablets Brands in Ghana. Pharmaceutical Sciences And Biomedical Analysis Journal*. https://www.researchgate.net/profile/Evans-Ameade/publication/361844861_Pharmaceutical_Sciences_And_Biomedical_Analysis_Journal_In_Vitro_Quality_Evaluation_of_Fourteen_500_mg_Paracetamol_Tablets_Brands_in_Ghana/links/62c807d200d0b4511040bbc6/Pharmaceutical-Sciences-And-Biomedical-Analysis-Journal-In-Vitro-Quality-Evaluation-of-Fourteen-500-mg-Paracetamol-Tablets-Brands-in-Ghana.pdf

16. Ayesu Djakari Henry, **Kuntworbe Noble**, Sekyere Michael, Johnson Raphael, Owusu Frederick William Akuffo, Entsie Philomena, Amankwah Francis, Ofori-Kwakye Kwabena (2022). Investigation of the physicochemical properties of freeze-dried fruit pulp of Telfairia occidentalis and its potential use as suspending agent. *Heliyon*. https://doi.org/10.1016/j.heliyon.2022.e09997

17. Olive Aidoo, **Noble Kuntworbe**, Fredrick William Akuffo Owusu, Deryl Nii Okantey Kuevi (2021). Chemical Composition and In Vitro Evaluation of the Mosquito (Anopheles) Repellent Property of Neem (Azadirachta indica) Seed Oil. *Journal of Tropical Medicine*. https://doi.org/10.1155/2021/5567063

18. Deryl Nii Okantey Kuevi, **Noble Kuntworbe**, Enoch Ayertey (2021). Effects of pH and Electrolytes on Castor Oil Emulsions with Various Stabilisers Using Khaya senegalensis Gum as an Emulsifier. *Advances in Pharmacological and Pharmaceutical Sciences*. https://doi.org/10.1155/2021/7049332

19. 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

20. Doris Kumadoh, Kwabena Ofori Kwakye, **Noble Kuntworbe**, Ofosua Adi-Dako, James Addy Appenahier (2020). Determination of shelf life of four herbal medicinal products using high-performance liquid chromatography analyses of markers and the Systat Sigmaplot software. *Journal of Applied Pharmaceutical Science*. https://doi.org/10.7324/japs.2020.10610

21. **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/10.56499/jppres17.332_6.3.167

22. 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

23. 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

24. 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

25. 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

26. **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

27. Adu Francis, Antwi Apenteng John, **Kuntworbe Noble**, Gariba Akanwariwiak William, Appiah Theresa, Ntinagyei Mintah David (2016). Antimicrobial and antioxidant activities of Citrus sinensis var. late Valencia fruits at various stages of development. *African Journal of Microbiology Research*. https://doi.org/10.5897/ajmr2015.7725

28. 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/

29. 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

30. 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

31. 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

32. **N Kuntworbe** (2014). Development, validation and results of quantitative stability testing for Gastrografin®. *Current Pharmaceutical Analysis*. https://doi.org/10.2174/1573412910999140113120243

33. **N Kuntworbe** (2013). Determination of pKa and forced degradation of the indoloquinoline antimalarial compound cryptolepine hydrochloride. *Pharmaceutical Development and Technology*. https://doi.org/10.3109/10837450.2012.668554

34. **N. Kuntworbe**, M. Ofori, P. Addo, M. Tingle, R. Al-Kassas (2013). Pharmacokinetics and in vivo chemosuppressive activity studies on cryptolepine hydrochloride and cryptolepine hydrochloride-loaded gelatine nanoformulation designed for parenteral administration for the treatment of malaria. *Acta Tropica*. https://doi.org/10.1016/j.actatropica.2013.04.010

35. Theresa Appiah Agana, **N Kuntworbe** (2012). African Journal of Microbiology Research. *Gene*. https://academicjournals.org/articles/j_articles/AJMR/page:21

36. **N Kuntworbe** (2012). Design and In Vitro Haemolytic Evaluation of Cryptolepine Hydrochloride-Loaded Gelatine Nanoparticles as a Novel Approach for the Treatment of Malaria. *Aaps Pharmscitech*. https://doi.org/10.1208/s12249-012-9775-6

37. **N Kuntworbe** (2012). Isolation and development of a HPLC method for the detection and quantification of cryptolepine and its application in the determination of the total cryptolepine content in …. *Pharmacology & Pharmacy*. https://www.researchgate.net/profile/Noble-Kuntworbe-2/publication/285795335_Isolation_and_development_of_an_HPLC_method_for_the_detection_and_quantification_of_cryptolepine_and_its_application_in_the_determination_of_the_total_cryptolepine_content_in_the_root_powder_of_Crypto/links/62eb86a488b83e7320a93bc5/Isolation-and-development-of-an-HPLC-method-for-the-detection-and-quantification-of-cryptolepine-and-its-application-in-the-determination-of-the-total-cryptolepine-content-in-the-root-powder-of-Crypto.pdf

38. **N Kuntworbe** (2012). M alaria intervention policies and pharmaceutical nanotechnology as a potential

tool for malaria management. *Drug Development Research*. https://doi.org/10.1002/ddr.21010

39. **N Kuntworbe** (2009). Investigation of the absorption and vascular effects of the indoloquinoline alkaloid, cryptolepine: 90. *Journal of Pharmacy and Pharmacology*. https://scholar.google.com/scholar?cluster=15308765174128613793&hl=en&oi=scholarr

40. **N Kuntworbe**, K Ofori-Kwakye, SL Kipo (2006). Formulation and Evaluation of a Combined Chloroquine Phosphate and Chlorpheniramine Maleate Product. *journal of science and technology*. https://journal.knust.edu.gh/index.php/just/article/view/685

Reports 1

1. Akwasi Acheampong, **N Kuntworbe**, A Brobbey, AO Antwi, MK Baah, E Bessah, Gordon A Awandare (2021). Scientific African. *Scientific African*. https://www.researchgate.net/profile/Temitope-D-Timothy-Oyedotun/publication/356402866_Household_Waste_Generation_Change_in_Waste_Composition_and_the_Exposure_to_COVID-19_in_Guyana_and_Nigeria/links/619fb8b1d7d1af224b241a9b/Household-Waste-Generation-Change-in-Waste-Composition-and-the-Exposure-to-COVID-19-in-Guyana-and-Nigeria.pdf?_sg%5B0%5D=started_experiment_milestone&origin=journalDetail

Theses 1

1. **N Kuntworbe** (2012). Design and Evaluation of Cryptolepine Hydrochloride-loaded Gelatine Nonoparticles Intended for Parenteral Administration. *University of Auckland*. https://scholar.google.com/scholar?cluster=4443592546758313347&hl=en&oi=scholarr