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RESEARCH

Interests	Neuropharmacology · Ethnopharmacology · Natural product Pharmacology · Drug discovery
Areas	Plant Science · Pharmacology · Biochemistry · Molecular Biology · Complementary and alternative medicine · Cellular and Molecular Neuroscience

RESEARCH SUMMARY

53	880	17	26	1.24	12%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 53 publications listed below, 2008–2026. Field-weighted impact is the mean over the 41 works scored for it; 1.00 is the world average for works of the same field, type and year. 5 of the 41 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Associate Professor 2012–present
Pharmacology, Kwame Nkrumah University of Science and Technology Faculty of Pharmacy and Pharmaceutical Sciences, Kumasi, Ghana

PUBLICATIONS

Journal articles 53

1. MK Laryea, **KMW Abotsi**, RA Dickson, E Ekuadzi (2026). Antiplasmodial and anti-trypanosomial monoterpene indole alkaloids from Picralima nitida. *Natural Product Research*.
2. Charles Kwaku Benneh, **Wonder Kofi Mensah Abotsi**, Aliu Moomin, Robert Peter Biney, Japhat Opoku Ofosu, Mustapha Kobina Abeka, Augustine Tandoh, Donatus Wewura Adongo, Eric Woode (2026). Deacetyl xylopic acid exhibits synergistic antidepressant-like effects and augments fluoxetine activity in a chronic restraint-induced depression model in mice. *Naunyn-Schmiedeberg s Archives of Pharmacology*. https://doi.org/10.1007/s00210-026-05501-8
3. Dorcas Akuorkor Teiko, Patrick Amoateng, **Wonder Kofi Mensah Abotsi**, Eric Boakye-Gyasi, Newman Osafo (2026). Geraniin alleviates nitroglycerine (NTG)-induced acute migraine in Sprague Dawley rats. *Pharmacological Research - Natural Products*. https://doi.org/10.1016/j.prenap.2026.100543
4. Prince Dagadu Okyere, Christian Chukwuma Ndu, Donatus Wewura Adongo, Charles Kwaku Benneh, Eric Woode, Edmund Ekuadzi, **Wonder Kofi Mensah Abotsi**, Eric Boakye-Gyasi, Priscilla Kolibea Mante (2025). Antidepressant-like effect of picralima nitida total crude alkaloidal fraction in mice. *Scientific African*. https://doi.org/10.1016/j.sciaf.2025.e02548
5. Charles Kwaku Benneh, **Wonder Kofi Mensah Abotsi**, Priscilla Kolibea Mante, Robert Peter Biney, John Peter Fetse, Mustapha Kobina Abeka, Donatus Wewura Adongo, Eric Woode (2025). Evidence for the anxiolytic- and antidepressant-like effects of three semi-synthetic derivatives of xylopic acid in mice. *Naunyn-Schmiedeberg s Archives of Pharmacology*. https://doi.org/10.1007/s00210-025-03814-8
6. Anthony Sarfo, Kwabena Oteng Boahen, Peace Doe, Bright Selorm Addy, Akua Frema Barfour, Miriam

Tagoe, **Wonder Kofi Mensah Abotsi** (2025). Further studies on the anticonvulsant potential of extracts from Ceiba pentandra (L.) Gaertn in a rat model of convulsion. *The Journal of Phytopharmacology*. https://doi.org/10.31254/phyto.2025.14204

7. Frederick Kwadwo Baah, Yakubu Jibira, Kofi Oduro Yeboah, Newman Osafo, **Wonder Kofi Mensah Abotsi**, Eric Boakye-Gyasi (2025). Neuro-therapeutic effect of ursolic acid in a murine model of vincristine-induced neuropathic pain. *Comparative Clinical Pathology*. https://doi.org/10.1007/s00580-025-03695-6
8. Christian C. Ndu, **Wonder K. M. Abotsi**, Priscilla K. Mante (2024). Investigation of Herb-Drug Interactions between Xylopia aethiopica, Its Principal Constituent Xylopic Acid, and Antidepressants. *Advances in Pharmacological and Pharmaceutical Sciences*. https://doi.org/10.1155/2024/9923801
9. Emmanuel Addae, **Wonder Kofi Mensah Abotsi**, Eric Boakye-Gyasi, Mataji Arthur (2024). Involvement of catecholaminergic and nitric oxide–cGMP pathways in the antidepressant-like effects of hydroethanolic leaf extract of Morinda Longiflora G. Don in Mice. *Scientific African*. https://doi.org/10.1016/j.sciaf.2024.e02267
10. Charles Kwaku Benneh, **Wonder Kofi Mensah Abotsi**, Robert Peter Biney, Priscilla Kolibea Mante, Mustapha Kobina Abeka, Augustine Tandoh, Eric Woode (2024). Synergistic antidepressant-like effect of xylopic acid co-administered with selected antidepressants. *IBRO Neuroscience Reports*. https://doi.org/10.1016/j.ibneur.2024.01.011
11. Phyllis Annan, Newman Osafo, Paul Poku Sampene Ossei, **Wonder Kofi Mensah Abotsi** (2022). Anti-Arthritic Effect of the Hydroethanolic Root Extract of Psydrax subcordata in Rats. *Advances in Pharmacological and Pharmaceutical Sciences*. https://doi.org/10.1155/2022/9748382
12. Yakubu Jibira, Eric Boakye-Gyasi, **Wonder Kofi Mensah Abotsi**, Isaac Kingsley Amponsah, Peter Duah, Frederick Kwadwo Baah, Eric Woode (2022). Antinociceptive effects of a hydroethanolic stem bark extract of Burkea africana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2022.e08917
13. Anthony Sarfo, **Wonder Kofi Mensah Abotsi**, Edmund Ekuadzi, Eric Woode (2022). Ceiba pentandra (L.) Gaertn hydroethanolic leaf extract exhibits anticonvulsant properties in mouse models. *Phytomedicine Plus*. https://doi.org/10.1016/j.phyplu.2022.100263
14. Yaw Duah Boakye, Newman Osafo, James Oppong-Kyekyeku, **Wonder Kofi Mensah Abotsi**, Eric Boakye-Gyasi, Elke Heiss, Christian Agyare (2022). Regulation of Nrf2 and NF-κB activities may contribute to the anti-inflammatory mechanism of xylopic acid. *Inflammopharmacology*. https://doi.org/10.1007/s10787-022-00950-y
15. Phyllis Annan, Newman Osafo, Paul Poku Sampene Ossei, Eric Boakye-Gyasi, **Wonder Kofi Mensah Abotsi** (2022). The hydroethanolic root extract of Psydrax subcordata (DC.) Bridson exhibits antinociceptive and anti-inflammatory effects in animal models. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01342
16. Victor Wumbor-Apin Kumbol, **Wonder Kofi Mensah Abotsi**, Robert Peter Biney (2020). Antidepressant-like effect of Albizia zygia root extract in murine models. *Journal of Basic and Clinical Physiology and Pharmacology*. https://doi.org/10.1515/jbcpp-2019-0310
17. Yakubu Jibira, Eric Boakye-Gyasi, **Wonder Kofi Mensah Abotsi**, Isaac Kingsley Amponsah, Donatus Wewura Adongo, Eric Woode (2020). Hydroethanolic Stem Bark Extract of Burkea africana Attenuates Vincristine-Induced Peripheral Neuropathy in Rats. *Advances in Pharmacological and Pharmaceutical Sciences*. https://doi.org/10.1155/2020/7232579
18. **E. Kofi Abotsi** (2020). Introspecting the Office of the Special Prosecutor's Act and Ghana's Constitutional Framework on Anti-Corruption. *African Journal of International and Comparative Law*. https://doi.org/10.3366/ajicl.2020.0311
19. V.W.A. Kumbol, **W.K.M. Abotsi**, R.P. Biney (2019). The antidepressant effects of albizia zygia root extract in mice are mediated via catecholaminergic mechanisms. *IBRO Reports*. https://doi.org/10.1016/j.ibror.2019.09.084
20. Victor Wumbor-Apin Kumbol, **Wonder Kofi Mensah Abotsi**, Edmund Ekuadzi, Eric Woode (2018). Albizia zygia root extract exhibits antipsychotic-like properties in murine models of schizophrenia. *Biomedicine & Pharmacotherapy*. https://doi.org/10.1016/j.biopha.2018.07.030

21. **Wonder Kofi Mensah Abotsi**, Stanley Benjamin Lamptey, Eric Boakye-Gyasi, Eric Woode (2017). Albizia zygia (DC.) J.F. Macbr. (Leguminosae-Mimosoideae) root extract exhibits anti-nociceptive and antipyretic activities in murine models. *Journal of Ethnopharmacology*. https://doi.org/10.1016/j.jep.2017.02.007

22. Stanley Benjamin Lamptey, **Wonder Kofi Mensah Abotsi** (2017). Albizia zygia (DC.) Macbr. Hydroethanol Root Extract Exerts Anti-Oedemic and In Vivo Antioxidant Activities in Animal Models. *Journal of Applied Pharmaceutical Science*. https://doi.org/10.7324/japs.2017.70429

23. Eric Boakye-Gyasi, Ella Anle Kasanga, Elvis Ofori Ameyaw, **Wonder Kofi Mensah Abotsi**, Robert Peter Biney, Christian Agyare, Eric Woode (2017). An isobolographic analysis of the anti-nociceptive effect of geraniin in combination with morphine or diclofenac. *Journal of Basic and Clinical Physiology and Pharmacology*. https://doi.org/10.1515/jbcpp-2017-0031

24. Samuel Daanaa, **Wonder Kofi Mensah Abotsi**, Eric Boakye-Gyasi, Eric Woode (2017). Anticonvulsant effect of the hydroethanolic leaf extract of Psydrax subcordata (DC.) Bridson in murine models. *Journal of Ethnopharmacology*. https://doi.org/10.1016/j.jep.2017.11.028

25. Eric Boakye-Gyasi, Isaac Tabiri Henneh, **Wonder Kofi Mensah Abotsi**, Elvis Ofori Ameyaw, Eric Woode (2017). Hydro-ethanolic leaf extract of Ziziphus abyssinica Hochst Ex A. Rich (Rhamnaceae) exhibits anti-nociceptive effects in murine models. *BMC Complementary and Alternative Medicine*. https://doi.org/10.1186/s12906-017-1750-z

26. Eric Boakye-Gyasi, Isaac Tabiri Henneh, **Wonder Kofi Mensah Abotsi**, Elvis Ofori Ameyaw, Eric Woode (2017). Possible mechanisms involved in the anti-nociceptive effects of hydro-ethanolic leaf extract of Ziziphus abyssinica. *Pharmaceutical Biology*. https://doi.org/10.1080/13880209.2017.1355927

27. **Wonder Kofi Mensah Abotsi**, Stanley Benjamin Lamptey, Stephen Afrane, Eric Boakye-Gyasi, Ruth Uwa Umoh, Eric Woode (2016). An evaluation of the anti-inflammatory, antipyretic and analgesic effects of hydroethanol leaf extract ofAlbizia zygiain animal models. *Pharmaceutical Biology*. https://doi.org/10.1080/13880209.2016.1262434

28. Yaw Duah Boakye, Christian Agyare, **Wonder Kofi Mensah Abotsi**, Patrick George Ayande, Paul Poku Sampene Ossei (2016). Anti-inflammatory activity of aqueous leaf extract of Phyllanthus muellerianus (Kuntze) Exell. and its major constituent, geraniin. *Journal of Ethnopharmacology*. https://doi.org/10.1016/j.jep.2016.04.020

29. Eric Woode, Elvis Ofori Ameyaw, Eric Boakye-Gyasi, **Wonder Kofi Mensah Abotsi**, James Oppong Kyekyeku, Reimmel Adosraku, Robert Peter Biney (2016). Effects of an ethanol extract and the diterpene, xylopic acid, of Xylopia aethiopica fruits in murine models of musculoskeletal pain. *Pharmaceutical Biology*. https://doi.org/10.1080/13880209.2016.1199040

30. Hosea Iliya, **Wonder Abotsi**, Charles Benneh, Eric Woode (2016). Maerua angolensis Extract Reduces Allodynia and Hyperalgesia in a Mouse Model of Vincristine-Induced Peripheral Neuropathy. *Journal of Applied Pharmaceutical Science*. https://doi.org/10.7324/japs.2016.60519

31. Eric Woode, ElvisOfori Ameyaw, **WonderKofi Mensah Abotsi**, Eric Boakye-Gyasi (2015). An isobolographic analysis of the antinociceptive effect of xylopic acid in combination with morphine or diclofenac. *Journal of Basic and Clinical Pharmacy*. https://doi.org/10.4103/0976-0105.168055

32. Kofi Donkor, Laud N.K. Okine, **Wonder K. M. Abotsi**, Eric Woode (2014). Acute and Sub-Chronic Toxicity Studies of Aqueous Extract of Root Bark of Cassia Sieberiana D.C. in Rodents. *Journal of Applied Pharmaceutical Science*. https://doi.org/10.7324/japs.2014.40415

33. E Boakye-Gyasi, Robert Peter Biney, **WKM Abotsi**, KB Mensah (2014). Ameliorative effects of ethanolic leaf extract of Palisota hirsuta K. Schum (Commelinaceae) on vincristine-induced neuropathic pain in rats. *Journal of Applied Pharmaceutical Science*. https://doi.org/10.7324/japs.2014.4117

34. Eric Woode, **WonderK.M Abotsi**, ReimmelK Adosraku, ElvisO Ameyaw, Eric Boakye-Gyasi, JamesOppong Kyekyeku (2014). Anti-allodynic and Anti-hyperalgesic effects of an ethanolic extract and xylopic acid from the fruits of Xylopia aethiopica in murine models of neuropathic pain. *Pharmacognosy Research*. https://doi.org/10.4103/0974-8490.129041

35. **Wonder Kofi Mensah Abotsi**, RP Biney (2014). Effects of hydroalcoholic leaf extract of Ficus Exasperata Vahl (Moraceae) in carrageenan/kaolin-induced acute and chronic musculoskeletal pain in rats. *West*

African Journal of Pharmacy. https://ir.ucc.edu.gh/server/api/core/bitstreams/a311b650-c9c6-405a-a107-037ece3c00b5/content

36. **Wonder Kofi Mensah Abotsi**, Eric Boakye-Gyasi, Augustine Tandoh, Benjamin Stanley Lamptey, Eric Woode (2014). Further studies on the anti-nociceptive and anti-inflammatory effects of the aerial parts of Hilleria latifolia (Lam.) H. Walt. *The Journal of Phytopharmacology*. https://doi.org/10.31254/phyto.2014.3510
37. YD Boakye, C Agyare, **WK Abotsi** (2013). Anti-inflammatory activity of geraniin and aqueous extract of Phyllanthus muellerianus (Kuntze) Exell. *Planta Medica*. https://doi.org/10.1055/s-0033-1351955
38. Boakye-Gyasi, Eric, **WKM Abotsi** (2013). Anti-inflammatory and analgesic effects of ethanolic leaf extract of Newbouldialaevis (P. Beauv.) Seemann Ex Bureau (Bignoniaceae). *HAL (Le Centre pour la Communication Scientifique Directe)*.
39. **WKM Abotsi**, E Boakye-Gyasi (2013). Preliminary phytochemical screening and in vitro antioxidant properties of Trichilia monadelpha (Thonn.) JJ de Wilde (Meliaceae). *Journal of Medical and Biomedical Sciences*. https://www.researchgate.net/profile/Eric-Boakye-Gyasi/publication/255708353_Preliminary_Phytochemical_Screening_and_In_vitro_Antioxidant_Properties_of_Trichilia_monadelpha_Thonn_J_J_de_Wilde_Meliaceae/links/004635204ddde952ab000000/Preliminary-Phytochemical-Screening-and-In-vitro-Antioxidant-Properties-of-Trichilia-monadelpha-Thonn-J-J-de-Wilde-Meliaceae.pdf
40. Eric Woode, ElvisO Ameyaw, Eric Boakye-Gyasi, **WonderK. M. Abotsi** (2012). Analgesic effects of an ethanol extract of the fruits of Xylopia aethiopica (Dunal) A. Rich (Annonaceae) and the major constituent, xylopic acid in murine models. *Journal of Pharmacy And Bioallied Sciences*. https://doi.org/10.4103/0975-7406.103251
41. Eric Woode, AmaKyeraa Amoh-Barimah, **WonderKofi Mensah Abotsi**, GeorgeKwaw Ainooson, George Owusu (2012). Analgesic effects of stem bark extracts of Trichilia monadelpha (Thonn.) JJ De Wilde. *Indian Journal of Pharmacology*. https://doi.org/10.4103/0253-7613.103299
42. **WKM Abotsi**, GK Ainooson, E Boakye-Gyasi (2012). Anti-inflammatory; Antipyretic and Antioxidant Properties of a hydroalcoholic Leaf Extract of Palisota hirsuta K. Schum.(Commelinaceae). *West Sfr. J. Pharm*. https://scholar.google.com/scholar?cluster=7562522310656208226&hl=en&oi=scholarr
43. **WKM Abotsi** (2011). Acute and sub-acute toxicity studies of the ethanolic extract of the aerial parts of Hilleria latifolia (Lam.) H. Walt.(Phytolaccaceae) in rodents. *West African Journal of*.... https://www.academia.edu/download/50617142/Acute_and_Sub-acute_Toxicity_Studies_of_20161129-12215-1wubhuj.pdf
44. E Boakye-Gyasi, GK Ainooson, **WKM Abotsi** (2011). Anti-inflammatory, antipyretic and antioxidant properties of a hydroalcoholic leaf extract of Palisota hirsuta K. Schum.(Commelinaceae). *West African Journal of Pharmacy*. https://www.academia.edu/download/50617132/Anti-inflammatory_Antipyretic_and_Antiox20161129-12210-qt2upc.pdf
45. **WKM Abotsi** (2011). Anti-nociceptive, anxiolytic and anticonvulsant effects of an aqueous leaf extract of Leea guineensis G. Don (Family: Leeaceae). *African Journal of Pharmacy and Pharmacology*. https://www.researchgate.net/profile/David-Alagpulinsa/publication/277070964_Anticonvulsant_and_Neurobehavioural_effects_of_the_aqueous_leaf_extract_of_leea_guineensis_G_Don_Family_Leeaceae/links/5890856caca272bc14be41ce/Anticonvulsant-and-Neurobehavioural-effects-of-the-aqueous-leaf-extract-of-leea-guineensis-G-Don-Family-Leeaceae.pdf
46. Eric Woode, **WonderK.M. Abotsi** (2011). Antinociceptive effect of an ethanolic extract of the aerial parts of Hilleria latifolia (Lam.) H. Walt. (Phytolaccaceae). *Journal of Pharmacy And Bioallied Sciences*. https://doi.org/10.4103/0975-7406.84445
47. **W Abotsi**, A Mensah (2011). Anxiolytic-and antidepressant-like effects of an ethanolic extract of the aerial parts of Hilleria latifolia (Lam.) H. Walt. in mice. *Journal of Natural Pharmaceuticals*. https://go.gale.com/ps/i.do?id=GALE%7CA265947125&sid=googleScholar&v=2.1&it=r&linkaccess=abs&issn=22295119&p=HRCA&sw=w
48. **WK Abotsi** (2011). Anxiolytic-like effects of a leaf extract of Ficus exasperata Vahl (Moraceae) in Mice. *West Afr J Pharm*. https://www.researchgate.net/profile/Wonder-Abotsi/publication/

215794450_Anxiolytic-like_Effects_of_a_Leaf_Extract_of_Ficus_exasperata_Vahl_Moraceae_in_Mice/links/0912f505ad99e93aa3000000/Anxiolytic-like-Effects-of-a-Leaf-Extract-of-Ficus-exasperata-Vahl-Moraceae-in-Mice.pdf

49. Woode, Eric, **K.M. Abotsi, Wonder** (2011). Ethopharmacological analysis of the effects of the whole plant extract ofSynedrella nodiflora (L.) Gaertn (Asteraceae) in murine models. *HAL (Le Centre pour la Communication Scientifique Directe)*.

50. Eric Boakye-Gyasi, **WKM Abotsi** (2011). exasperata Vahl (Moraceae) in Mice. *International Journal of Pharmacology*. https://www.academia.edu/download/50617122/Anticonvulsant_Effects_of_a_Leaf_Extract20161129-12213-34qppw.pdf

51. Eric Woode, GeorgeK Ainooson, AmaK Amo-Barimah, Eric Boakye-Gyasi, **WonderM. K. Abotsi** (2010). Antiarthritic and antioxidant effects of the leaf extract of Ficus exasperata P. Beauv. (Moraceae). *Pharmacognosy Research*. https://doi.org/10.4103/0974-8490.62958

52. GK Ainooson, E Boakye-Gyasi, **WKM Abotsi** (2009). An evaluation of the anti-inflammatory, antipyretic and antinociceptive effects of Ficus exasperata (Vahl) leaf extract. *Journal of pharmacology and Toxicology*. https://www.researchgate.net/profile/Eric-Boakye-Gyasi/publication/215794452_An_Evaluation_of_the_Anti-inflammatory_Antipyretic_and_Antinociceptive_Effects_of_Ficus_exasperata_Vahl_Leaf_Extract/links/0912f511377b985fde000000/An-Evaluation-of-the-Anti-inflammatory-Antipyretic-and-Antinociceptive-Effects-of-Ficus-exasperata-Vahl-Leaf-Extract.pdf

53. 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