Emmanuel Awintiig Adakudugu

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RESEARCH

Areas Pharmacology · Plant Science · Food Science · Biochemistry · Biomaterials · Molecular Biology

RESEARCH SUMMARY

21	238	9	7	0.99	12%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 21 publications listed below, 2019–2025. Field-weighted impact is the mean over the 17 works scored for it; 1.00 is the world average for works of the same field, type and year. 2 of the 17 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

University of Cape Coast
Cape Coast, Ghana

EDUCATION AND QUALIFICATIONS

M.Phil 2016–2019
Pharmacology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Kwame Nkrumah University of Science and Technology 2011–2015
Faculty of Pharmacy, Kumasi, Ghana

PUBLICATIONS

Journal articles 21

1. 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
2. Benjamin Amoani, B Aboagye, E Obese, Elvis Ofori Ameyaw, **EA Adakudugu** (2025). In vitro antioxidant and antiarthritic effects of Persicaria lanigera R. Br. Sojak (Polygonaceae) leaf extract in complete Freund's Adjuvant-induced rheumatoid arthritis model …. *Pharmacological Research-Natural Products*. https://www.sciencedirect.com/science/article/pii/S2950199725000114
3. Meshack Antwi-Adjei, Ernest Obese, **Emmanuel Awintiig Adakudugu**, Benjamin Aboagye, Daniel Anokwah, Akua Afriyie Karikari, Roberta Antwi-Adjei, Elvis Ofori Ameyaw (2024). Persicaria lanigera (Polygonaceae) leaf extract exhibits antiulcerogenic and antiproliferative activities against acetic acid-induced ulcerative colitis and cotton pellet-induced granuloma tissue in rats. *Asian Pacific Journal of Tropical Biomedicine*. https://doi.org/10.4103/apjtb.apjtb_286_24
4. 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
5. Meshack Antwi-Adjei, Ernest Obese, **Emmanuel Awiintig Adakudugu**, Isaac Tabiri Henneh, Robert Peter

Biney, Benjamin Aboagye, Benjamin Amoani, Daniel Anokwah, Elvis Ofori Ameyaw (2023). Modulating Effects of the Hydroethanolic Leaf Extract of Persicaria lanigera R. Br. Soják (Polygonaceae) against Acute Inflammation. *The Scientific World JOURNAL*. https://doi.org/10.1155/2023/5567410

6. Desmond Omane Acheampong, Ernest Obese, Robert Peter Biney, Benjamin Amoani, **Emmanuel A Adakudugu**, Paulina Ampomah, Elvis O Ameyaw (2022). In Vitro and In Vivo Antiplasmodial Activity and Safety Profile of Hydroethanolic Leaf Ex-tract of Calotropis Procera (Ait) R. Br.(Apocynaceae). *Annals of Pharma Research*. https://annalsofpharmaresearch.com/index.php?journal=apr&page=article&op=view&path%5B%5D=70
7. Mary A. Agbenyeku, Regina Appiah-Opong, Ernest Obese, Robert P. Biney, **Emmanuel A. Adakudugu**, Arnold D. Forkuo, Silas A. Osei, Mustapha K. Abeka, Elvis O. Ameyaw (2022). In Vitro and In Vivo Effect of Xylopic Acid on Cytochrome P450 Enzymes. *Advances in Pharmacological and Pharmaceutical Sciences*. https://doi.org/10.1155/2022/4524877
8. Ernest Obese, Elvis O. Ameyaw, Robert P. Biney, Isaac T. Henneh, Nora Jackson, Daniel Anokwah, Augustine Brah, Esther E. Oppong, **Emmanuel A. Adakudugu** (2021). A Hydroethanolic Leaf Extract of Persicaria lanigera Possesses Antinociceptive Activity through Cytokine and Glutamatergic Pathways In Vivo. *Evidence-based Complementary and Alternative Medicine*. https://doi.org/10.1155/2021/5586789
9. Isaac Tabiri Henneh, Francis Ackah Armah, Elvis Ofori Ameyaw, Robert Peter Biney, Ernest Obese, Eric Boakye-Gyasi, **Emmanuel Awintiig Adakudugu**, Martins Ekor (2021). Analgesic Effect of Ziziphus abyssinica Involves Inhibition of Inflammatory Mediators and Modulation of KATP Channels, Opioidergic and Nitrergic Pathways. *Frontiers in Pharmacology*. https://doi.org/10.3389/fphar.2021.714722
10. Ernest Obese, Robert P. Biney, Isaac T. Henneh, Daniel Anokwah, **Emmanuel A. Adakudugu**, Eric Woode, Elvis O. Ameyaw (2021). Antinociceptive effect of the hydroethanolic leaf extract of Calotropis procera (Ait) R. Br. (Apocynaceae): Possible involvement of glutamatergic, cytokines, opioidergic and adenosinergic pathways. *Journal of Ethnopharmacology*. https://doi.org/10.1016/j.jep.2021.114261
11. Elvis Ofori Ameyaw, Ernest Obese, Du-Bois Asante, Robert P. Biney, Akua A. Karikari, **Emmanuel A. Adakudugu**, Bright G. Dzotefe, Maddison Adanusa (2021). Effect of xylopic acid on alloxan-induced diabetic neuropathy in rats. *International Journal of Basic & Clinical Pharmacology*. https://doi.org/10.18203/2319-2003.ijbcp20211011
12. Mustapha A. Ahmed, Elvis O. Ameyaw, Francis Ackah-Armah, Desmond O. Acheampong, Benjamin Amoani, Paulina Ampomah, **Emmanuel A. Adakudugu**, Christian K. Adokoh (2021). In vitro and In vivo antimalarial activities of Avicennia africana P. Beauv. (Avicenniaceae) ethanolic leaf extract. *Journal of Traditional and Complementary Medicine*. https://doi.org/10.1016/j.jtcme.2021.11.004
13. Ernest Obese, Elvis Ofori Ameyaw, Robert Peter Biney, **Emmanuel Awintiig Adakudugu**, Eric Woode (2021). Neuropharmacological Assessment of the Hydroethanolic Leaf Extract of Calotropis procera (Ait). R. Br. (Apocynaceae) in Mice. *Scientifica*. https://doi.org/10.1155/2021/5551380
14. Esther Eshun Oppong, Ernest Obese, Robert Peter Biney, Pearlmond Agbalekpor, Priscilla A. Hanson, Maame Y. A. Aboagye, **Emmanuel A. Adakudugu**, Madison Adanusa, Richard Pinkrah, Anasthasia O. Adomah, Silas A. Osei, Elizabeth N. Oge, Mary A. Agbenyeku, Elvis O. Ameyaw (2021). Spectrum of anxiety and depression reported in reproductive-aged women diagnosed with gynaecological disorders at a tertiary healthcare facility in Ghana. *International Journal of Basic & Clinical Pharmacology*. https://doi.org/10.18203/2319-2003.ijbcp20213358
15. Ernest Obese, Robert Peter Biney, Isaac Tabiri Henneh, **Emmanuel Awintiig Adakudugu**, Daniel Anokwah, Lovia Serwaa Agyemang, Eric Woode, Elvis Ofori Ameyaw (2021). The Anticonvulsant Effect of Hydroethanolic Leaf Extract of Calotropis procera (Ait) R. Br. (Apocynaceae). *Neural Plasticity*. https://doi.org/10.1155/2021/5566890
16. Elizabeth N. Oge, Ernest Obese, Robert P. Biney, **Emmanuel Adakudugu**, Mary Agbenyeku, Silas A. Osei, Maria B. Cassera, Ana Lisa Valenciano, Emilio F. Merino, Johnson N. Boampong, Eric Woode, Madison Adanusa, Elvis O. Ameyaw (2020). A review of pharmacological effects of xylopic acid. *International Journal of Basic & Clinical Pharmacology*. https://doi.org/10.18203/2319-2003.ijbcp20201765
17. **Emmanuel A. Adakudugu**, David D. Obiri, Elvis O. Ameyaw, Ernest Obese, Robert P. Biney, Douglas B. Aidoo, Isaac T. Henneh, Elizabeth N. Oge, Ama K. Thomford, Madison Adanusa (2020). Bergapten

modulates ovalbumin-induced asthma. *Scientific African*. https://doi.org/10.1016/j.sciaf.2020.e00457

18. **Emmanuel A. Adakudugu**, Elvis O. Ameyaw, Ernest Obese, Robert P. Biney, Isaac T. Henneh, Douglas B. Aidoo, Elizabeth N. Oge, Isaac Y. Attah, David D. Obiri (2020). Protective effect of bergapten in acetic acid-induced colitis in rats. *Heliyon*. https://doi.org/10.1016/j.heliyon.2020.e04710
19. **Emmanuel A Adakudugu**, B Arko-Boham, Elvis O Ameyaw, A Banunle, Robert P Biney, Evans Asenso, Isaac T Henneh, Ama K Thomford, Madison Adanusa (2020). Scientific African. *Carbon*. https://www.researchgate.net/profile/Hamza-Zine/publication/346551011_Guidelines_for_a_phytomanagement_plan_by_the_phytostabilization_of_mining_wastes/links/5fcfd13392851c00f85f0f28/Guidelines-for-a-phytomanagement-plan-by-the-phytostabilization-of-mining-wastes.pdf
20. Du-Bois Asante, Isaac Tabiri Henneh, Desmond Omane Acheampong, Foster Kyei, Christian Kweku Adokoh, Eric Gyamerah Ofori, Nelson Kwabla Domey, **Emmanuel Adakudugu**, Lokeswari Prathyusha Tangella, Elvis Ofori Ameyaw (2019). Anti-inflammatory, anti-nociceptive and antipyretic activity of young and old leaves of Vernonia amygdalina. *Biomedicine & Pharmacotherapy*. https://doi.org/10.1016/j.biopha.2018.12.147
21. Desmond O. Acheampong, Isaac K. Barffour, Alex Boye, Ernest A. Asiamah, Francis A. Armah, Christian K. Adokoh, Joy F. Oluyemi, Benjamin Adrah, Richard Opoku, **Emmanuel Adakudugu** (2019). Histoprotective Effect of Essential Oil from Citrus aurantifolia in Testosterone-Induced Benign Prostatic Hyperplasia Rat. *Advances in Urology*. https://doi.org/10.1155/2019/3031609