Prof. George Kwaw Ainooson

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RESEARCH

Areas: Plant Science · Molecular Biology · Endocrinology, Diabetes and Metabolism · Complementary and alternative medicine · Immunology · Physiology

RESEARCH SUMMARY

30	564	13	14	1.34	18%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 30 publications listed below, 2008–2026. 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. 3 of the 17 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer/Researcher 2007–present
Pharmacology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

Postdoc Cancer Immunology 2023–2024
Center for Medical Innovation, Nagasaki University, Nagasaki, Japan

PhD 2013–2017
Institute of Toxicology & Genetics, Das Karlsruher Institut für Technologie (KIT) – Die Forschungsuniversität in der Helmholtz, Karlsruhe, Germany

MPhil Pharmacology 2004–2007
Department of Pharmacology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

BPharm 1999–2003
Faculty of Pharmacy and Pharmaceutical Sciences, Technology Consultancy Centre of the Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana

PUBLICATIONS

Journal articles 28

1. 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
2. Kofi Oduro Yeboah, Mavis Sersah Nyarko, Aaron Opoku Antwi, Stephen Nimoh, Bernard Elikplim Petershie, Yolanda Ashie, Eric Boakye-Gyasi, Newman Osafo, Emmanuel Amankwah Ntim, **George Ainooson** (2026). Hydroethanolic root extract of Croton membranaceus suppresses angiogenesis in zinc–testosterone-induced prostate adenocarcinoma and chorioallantoic membrane models. *Cancer Cell International*. https://doi.org/10.1186/s12935-026-04189-3

3. Emmanuel Amankwah Ntim, Samuel Nyamekye, Kofi Oduro Yeboah, Rufai Safianu, Francis Tanam Djankpa, **George Kwaw Ainooson**, Kwaku Addai Arhin Appiah (2025). Associations between green tea drinking and body mass index, serum lipid profile and prostate-specific antigen in a Ghanaian population: a cross-sectional study. *BMC Nutrition*. https://doi.org/10.1186/s40795-025-01039-9

4. **George Ainooson**, BE Petershie (2025). The impact of zinc and testosterone co-treatment on tumorigenesis in prostate cancer: a novel model. *BMC Cancer*.

5. Kofi Oduro Yeboah, Paul Atawuchugi, Fredrick Kwadwo Baah, Bernard Elikplim Petershie, Yolanda Ashie, Eric Boakye-Gyasi, Newman Osafo, Emmanuel Amankwah Ntim, **George Ainooson** (2025). The impact of zinc and testosterone co-treatment on tumourigenesis in prostate cancer: a novel model. *BMC Cancer*. https://doi.org/10.1186/s12885-025-14893-4

6. George Owusu, **George K. Ainooson**, Newman Osafo (2023). Hydroethanolic Leaf Extract of Cordia vignei Hutch and Dalziel Inhibits Carrageenan-Induced Foot Oedema in Chicks, Prostaglandin E2-Induced Paw Oedema in Mice, and Bradykinin-Induced Paw Oedema in Mice. *Evidence-based Complementary and Alternative Medicine*. https://doi.org/10.1155/2023/9525015

7. Veronica Amoah, Paul Atawuchugi, Yakubu Jibira, Augustine Tandoh, Paul Poku Sampene Ossei, George Sam, **George Ainooson** (2023). Lantana camara leaf extract ameliorates memory deficit and the neuroinflammation associated with scopolamine-induced Alzheimer's-like cognitive impairment in zebrafish and mice. *Pharmaceutical Biology*. https://doi.org/10.1080/13880209.2023.2209130

8. O Kofi, EA NTİM, **G AİNOOSON** (2023). The antiproliferative, antimigratory and anticlonogenic effects of Croton membranaceus Müll. Arg.(Euphorbiaceae) hydroethanolic root extract in human 22Rv1 castration-resistant …. *ACTA Pharmaceutica Sciencia*. https://www.medipol.edu.tr/sites/default/files/document/61-2.pdf#page=39

9. Abigail Hohoayi, Aaron O. Antwi, Veronica Amoah, Newman Osafo, Paul P. O. Sampene, **George Ainooson** (2022). Coadministration of Stigmasterol and Dexamethasone (STIG+DEX) Modulates Steroid-Resistant Asthma. *Mediators of Inflammation*. https://doi.org/10.1155/2022/2222270

10. Daniel A. Bartels, Raphael Johnson, Marcel T. Bayor, **George K. Ainooson**, Paul P. S. Ossei, Rashid K. Etuaful, Richard Buamah (2021). Formulation of Suppositories of Alum Produced from Bauxite Waste in Ghana for the Treatment of Hemorrhoid. *The Scientific World JOURNAL*. https://doi.org/10.1155/2021/6667562

11. 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

12. **George Ainooson** (2019). Regulation of the pleiotropic effects of tissue-resident mast cells. *Journal of Allergy and Clinical Immunology*. https://www.sciencedirect.com/science/article/pii/S0091674919302076

13. **GK Ainooson** (2018). Transcriptomic data on the role of PEST-domain-enriched tyrosine phosphatase in the regulation of antigen-mediated activation and antiallergic action of glucocorticoids in mast …. *Data in brief*. https://www.sciencedirect.com/science/article/pii/S2352340918310436

14. **George Ainooson** (2016). Identification of Biological and Pharmaceutical Mast Cell-and Basophil-Related Targets. *Scandinavian journal of immunology*. https://doi.org/10.1111/sji.12436

15. **George Ainooson**, KI Amponsah, JN Addotey (2013). Anti-ulcerant activity of an aqueous fruit extract of Musa x para-disiaca on acetic acid-induced gastric ulceration in ICR mice. *Journal of Medical and Biomedical Sciences*. https://www.academia.edu/download/89919695/92012-Article_Text-233367-1-10-20130808.pdf

16. George Koffuor, **George Ainooson**, John Addotey, Isaac Amponsah, Victor Afriyie, Rockson Tutu (2013). Preliminary pharmacological investigation of the ischuretic property and safety of a hydro-ethanolic extract of Amaranthus spinosis (Fam: Amaranthaceae). *International Journal of Basic & Clinical Pharmacology*. https://doi.org/10.5455/2319-2003.ijbcp20131003

17. 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

18. 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
19. **George Ainooson** (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
20. WKM Abotsi, **GK Ainooson**, E Woode (2011). Anti-Inflammatory and Antioxidant Effects of an Ethanolic Extract of the Aerial Parts of Hilleria latifolia (Lam.) H. Walt. (Phytolaccaceae). *African Journal of Traditional Complementary and Alternative Medicines*. https://doi.org/10.4314/ajtcam.v9i1.19
21. 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
22. **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
23. 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
24. **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
25. E Boakye-Gyasi, **GK Ainooson** (2009). Anti-nociceptive effects and the mechanism of Palisota hirsuta. *International Journal of Pharmacology*. https://www.researchgate.net/profile/Eric-Woode/publication/45948081_Anti-Nociceptive_Effects_and_the_Mechanism_of_Palisota_hirsuta_K_Schum_Leaf_Extract_in_Murine_Models/links/02e7e51aa2d2f7d1f9000000/Anti-Nociceptive-Effects-and-the-Mechanism-of-Palisota-hirsuta-K-Schum-Leaf-Extract-in-Murine-Models.pdf?_sg%5B0%5D=started_experiment_milestone&origin=journalDetail
26. **George K. Ainooson**, Eric Woode, David D. Obiri, George A Koffour (2009). Antinociceptive Effects of Newbouldia laevis (P. Beauv.) Stem Bark Extract in a Rat Model. *Pharmacognosy Magazine*.
27. 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*.
28. 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

Conference papers 1

1. KO Yeboah, E Ntim, N Osafo, **G Ainooson** (2023). Comparative analysis of the anticancer effects of the hydroethanolic and aqueous root extracts of Croton membranaceus Müll. Arg. on 22Rv1 cell proliferation, migration and …. *BRITISH JOURNAL OF PHARMACOLOGY*. https://scholar.google.com/scholar?cluster=13644080738436457001&hl=en&oi=scholarr

Theses 1

1. **G Ainooson** (2017). PEST-domain-enriched tyrosine phosphatase and glucocorticoids as regulators of mast cell signalling. *Dissertation*, *Karlsruhe*, *Karlsruher Institut für Technologie (KIT)*, *2017*. https://scholar.archive.org/work/ijxspel2o5bchoolxpstlntvda/access/wayback/https://publikationen.bibliothek.kit.edu/1000076245/4743040