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RESEARCH

Interests	Immunology and clinical microbiology
Areas	Molecular Biology · Oncology · Cancer Research · Otorhinolaryngology · Surgery · Pharmacology

RESEARCH SUMMARY

29	277	9	9	0.98	5%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 29 publications listed below, 2015–2026. Field-weighted impact is the mean over the 19 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 19 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 27

1. **Roland Osei Saahene**, Precious Barnes, F. A. Yeboah, Du-Bois Asante, Elvis Agbo, Samuel Kofi Arhin, Sylvester Ackah Famieh (2026). Clinicopathological Features and Anatomical Patterns of Head and Neck Tumors From Cape Coast Teaching Hospital and Komfo Anokye Teaching Hospital in Ghana: A Cross-Sectional Study. *Health Science Reports*. https://doi.org/10.1002/hsr2.72395
2. Samuel Yahaya, Ibrahim Anyass Goumboundi, **Roland Osei Saahene**, Kwabena Dankwa, Samuel Acquah, Richard K. D. Ephraim (2026). Lipid profile alterations in pulmonary tuberculosis patients with and without diabetes mellitus: a systematic review and meta-analysis. *BMC Infectious Diseases*. https://doi.org/10.1186/s12879-026-14453-6
3. **Roland Osei Saahene**, Precious Barnes, Du-Bois Asante, Sylvester Famieh, Elvis Agbo (2026). Molecular Mechanisms of FAT Atypical Cadherin 1 (FAT1), the Hippo Pathway, and the Yes-Associated Protein (YAP) Signaling Pathways in Some Cancers. *Asian Pacific Journal of Cancer Prevention*. https://doi.org/10.31557/apjcp.2026.27.3.793
4. Helena Quayson, Joseph Humphrey Kofi Bonney, Daniel Sam, Gloria Francisca Nuer-Allornuvor, **Roland Osei Saahene**, Nicholas Ekow Thomford, Benjamin Amoani, Francis Abrokwah, Karen Pomeyie, Musah Kalaamullah Salisu, Prince Amoah Barnie (2025). Expression patterns of plasma microRNAs in patients with cervical cancer from two teaching hospitals in Ghana. *Journal of Cancer Research and Clinical Oncology*. https://doi.org/10.1007/s00432-025-06281-z
5. Karen Pomeyie, Joseph Humphrey Kofi Bonney, Benjamin Amoani, **Roland Osei Saahene**, Nicholas Ekow Thomford, Wishwell Pomeyie, Francis Abrokwah, Helena Quayson, Salisu Kalaamullah Musah, Selina Appiah, Deborah Pratt, Magdalene Sarah Ofori, Alexander Owusu-Ansah, Prince Amoah Barnie (2025). HIV-1 diagnostic, prognostic and ART-resistance detection potential of selected MiRNAs. *BMC Infectious Diseases*. https://doi.org/10.1186/s12879-025-11135-7
6. Precious Barnes, Elvis Agbo, Faustina Halm-Lai, Kwabena Dankwa, **Roland Osei Saahene**, Samuel Victor Nuvor, Dorcas Obiri-yeboah, Ewura Seidu Yahaya (2025). Insight into the immunomodulatory and chemotherapeutic mechanisms of paeonol (Review). *Medicine International*. https://doi.org/10.3892/mi.2025.223
7. Precious Barnes, Abraham Mensah, Leonard Derkyi-Kwarteng, Ernest Adankwa, Elvis Agbo, Ewura Yahaya, Benjamin Amoani, Emmanuel Imbeah, George Adjei, Patrick Akakpo, Faustina Halm-Lai, Kwabena

Dankwa, Samuel Nuvor, **Roland Saahene**, Dorcas Obiri-yeboah (2025). NF-κB (p65) protein expression in head and neck tumors and its association with clinicopathological parameters. *World Academy of Sciences Journal*. https://doi.org/10.3892/wasj.2025.330

8. **R. Osei Saahene**, P. Barnes, A. Mensah, L. Derkyi-Kwarteng, E. Adankwah, E. Agbo, E.S. Yahaya, P.K. Akakpo, F. Pappoe, K. Dankwa, D. Amoako-Sakyi, S.V. Nuvor, D. Obiri-Yeboah (2024). Clinical Validation of Nuclear Factor Kappa B (p65) Among Head and Neck Cancer Patients at One Institution. *International Journal of Radiation Oncology*Biology*Physics*. https://doi.org/10.1016/j.ijrobp.2024.01.072
9. **Roland Osei Saahene**, Precious Barnes, F. A. Yeboah, Elvis Agbo, Du-Bois Asante, Samuel Kofi Arhin (2024). Expression of RAS and RAB interactor 1 (RIN1) in head and neck tumors at selected hospital in Ghana. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0301295
10. Ewura Seidu Yahaya, Jesse Azebiik Anak, Nana Ama Amissah, Collins Obuah, Phyllis Elsie Owusu Agyei, **Roland Osei Saahene**, Michael Ainooson, Anthony Ablordey, Martins Ekor (2024). In vitro antibacterial and synergistic activity of pyrazolyl sulphonamide derivatives against Staphylococcus haemolyticus. *Journal of Applied Pharmaceutical Research*. https://doi.org/10.69857/joapr.v12i5.658
11. Faustina Pappoe, Abraham Mensah, Leonard Derkyi-Kwarteng, Ernest Adankwa, Elvis Agbo, Ewura Seidu Yahaya, Benjamin Amoani, George Adjei, Samuel Mingyigilougu Apewe Ka-Chungu, Patrick Kafui Akakpo, Faustina Halm-Lai, Kwabena Dankwa, Daniel Amoako-Sakyi, Samuel Victor Nuvor, Dorcas Obiri-Yeboah, **Roland Osei Saahene** (2024). Prognostic Significance of Nuclear Factor Kappa B (p65) among Breast Cancer Patients in Cape Coast Teaching Hospital. *Medical Principles and Practice*. https://doi.org/10.1159/000539241
12. Precious Barnes, Elvis Agbo, Jianjie Wang, Benjamin Amoani, Yeboah Kwaku Opoku, Perditer Okyere, **Roland Osei Saahene** (2023). Prognostic Worth of Nrf2/BACH1/HO-1 Protein Expression in the Development of Breast Cancer. *Medical Principles and Practice*. https://doi.org/10.1159/000534534
13. **Roland Osei Saahene**, P Barnes (2022). Macrophages in Innate Immunity. *Macrophages: Celebrating 140 Years of Discovery*. https://books.google.com/books?hl=en&lr=&id=Klq-EAAAQBAJ&oi=fnd&pg=PA39&dq=info:aiU7kHTHuAUJ:scholar.google.com&ots=RBsXigpasX&sig=EH1xiPwGeDge6NXK_pqMB_cL_w0
14. P. Okyere, I. Okyere, C. Otu-Ansah, J. Attakorah, **R. Osei Saahene**, A. Kumi, R. Ephraim KD, C. Osafo (2022). POS-910 Television News and official government releases the main source of information on COVID-19 among chronic kidney disease patients in Komfo Anokye Teaching Hospital,Ghana. *Kidney International Reports*. https://doi.org/10.1016/j.ekir.2022.01.949
15. Samuel A. Sakyi, Michael D. Wilson, Bright Adu, Stephen Opoku, Antwi Brewoo, Amma Larbi, Emmanuel K. Baafour, Samuel K. Tchum, **Roland O. Saahene**, Wilfred Aniagyei, Christian Sewor, David Courtin, Michael Cappello, Ben Gyan, Benjamin Amoani (2022). Plasmodium falciparum coinfection is associated with improved IgE and IgG3 response against hookworm antigens. *Health Science Reports*. https://doi.org/10.1002/hsr2.672
16. **Roland Osei. Saahene**, Elvis Agbo, Precious Barnes, Ewura Seidu Yahaya, Benjamin Amoani, Samuel Victor Nuvor, Perditer Okyere (2021). A Review: Mechanism of Phyllanthus urinaria in Cancers—NF-κB, P13K/AKT, and MAPKs Signaling Activation. *Evidence-based Complementary and Alternative Medicine*. https://doi.org/10.1155/2021/4514342
17. Elvis Agbo, Dong Hai Liu, Jia Wan Liao, **Roland Osei SAAHENE**, Precious Barnes (2021). Cardioprotective role of myocardial endothelial nitric oxide synthase and serum nitric oxide induced by hexarelin in rats with myocardial infarction-induced heart failure. *Iranian Red Crescent Medical Journal*. https://doi.org/10.32592/ircmj.2021.23.6.395
18. **Roland Osei Saahene**, SA Sakyi, PA Barnie, K Pomeyie (2021). Effect of ART on cytokine profile amongst HIV patients: a systematic review and meta-analysis. *Focus Med Sci J*. https://www.researchgate.net/profile/Benjamin-Amoani/publication/358266364_Effect_of_ART_on_Cytokine_Profile_amongst_HIV_Patients_A_Systematic_Review_and_Meta-Analysis/links/61f959ddaad5781d41c4da01/Effect-of-ART-on-Cytokine-Profile-amongst-HIV-Patients-A-Systematic-Review-and-Meta-Analysis.pdf
19. Precious Barnes, Joshua Kwame Yeboah, Wilson Gbedema, **Roland Osei Saahene**, Benjamin Amoani (2020). Ameliorative Effect of Vernonia amygdalina Plant Extract on Heavy Metal-Induced Liver and Kidney Dysfunction in Rats. *Advances in Pharmacological and Pharmaceutical Sciences*. https://doi.org/

10.1155/2020/2976905

20. Precious Barnes, F. A. Yeboah, Jinling Zhu, **Roland Osei Saahene**, Christian Obirikorang, Michael Buenor Adinortey, Benjamin Amoani, Foster Kyei, Patrick Akakpo, Yaw Asante Awuku (2020). Prognostic Worth of Epidermal Growth Factor Receptor (EGFR) in Patients with Head and Neck Tumors. *Journal of Cancer Epidemiology*. https://doi.org/10.1155/2020/5615303
21. **RO Saahene** (2019). Hexarelin protects cardiac H9C2 cells from angiotensin II-induced hypertrophy via the regulation of autophagy. *Die Pharmazie-An International Journal of Pharmaceutical Sciences*. https://www.ingentaconnect.com/content/govi/pharmaz/2019/00000074/00000008/art00007
22. **Roland Osei Saahene** (2019). Modulation of PTEN by hexarelin attenuates coronary artery ligation-induced heart failure in rats. *Turkish journal of medical sciences*. https://journals.tubitak.gov.tr/medical/vol49/iss3/35/
23. **RO Saahene** (2019). The role of CXC chemokine ligand 4/CXC chemokine receptor 3-B in breast cancer progression. *Biotechnic & Histochemistry*. https://doi.org/10.1080/10520295.2018.1497201
24. **Roland Osei Saahene** (2018). Blockade of TLR4 within the paraventricular nucleus attenuates blood pressure by regulating ROS and inflammatory cytokines in prehypertensive rats. *American journal of hypertension*. https://academic.oup.com/ajh/article-abstract/31/9/1013/4996072
25. **Roland Osei Saahene** (2018). Central blockade of NLRP3 reduces blood pressure via regulating inflammation microenvironment and neurohormonal excitation in salt-induced prehypertensive rats. *Journal of Neuroinflammation*. https://doi.org/10.1186/s12974-018-1131-7
26. **Roland O Saahene** (2018). The antitumor mechanism of paeonol on CXCL4/CXCR3-B signals in breast cancer through induction of tumor cell apoptosis. *Cancer Biotherapy and Radiopharmaceuticals*. https://doi.org/10.1089/cbr.2018.2450
27. **RO Saahene** (2018). The role of regulation of PTEN gene in signal transduction pathways related to cardiac hypertrophy and chronic heart failure. *Die Pharmazie-An International Journal of Pharmaceutical Sciences*. https://www.ingentaconnect.com/content/govi/pharmaz/2018/00000073/00000008/art00001

Book chapters 1

1. **Roland Osei Saahene**, Precious Barnes, Samuel Victor Nuvor (2022). The Interactive Role of Macrophages in Innate Immunity. *IntechOpen eBooks*. https://doi.org/10.5772/intechopen.103924

Reports 1

1. **Roland Osei Saahene** (2015). The Risk Factors of Metabolic Syndrome among Stroke Patients. *University of Cape Coast*. https://ir.ucc.edu.gh/server/api/core/bitstreams/68bfe031-2cc2-4ef3-8a6c-54f3e39cecbf/content