

Alexander Egyir-Yawson

Associate Professor · Department of Forensic Sciences
University of Cape Coast

ORCID [0000-0001-5590-3256](https://orcid.org/0000-0001-5590-3256) · Homepage ucc.edu.gh · Google Scholar scholar.google.com/citations?user=Tb4DISUAAAAJ&hl=en · Profile scholar.ucc.edu.gh/staff/ee1863f3-6393-4cc7-9298-9330ed9e8697

RESEARCH

Interests Vector Biology · Genetics · Parasite biology · Population Genetics · Ecology
Areas Public Health, Environmental and Occupational Health · Parasitology · Epidemiology · Molecular Biology · Genetics · Plant Science

RESEARCH SUMMARY

35	1,161	17	18	4.43	35%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 35 publications listed below, 2003–2026. Field-weighted impact is the mean over the 23 works scored for it; 1.00 is the world average for works of the same field, type and year. 8 of the 23 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 31

1. Joseph Chabi, Gloria Salome Shirima, Brian Masanja, Sylvester Coleman, Constant Guy N'Guessan Gbalegba, Bernard Loukou Kouassi, Brice Renaud N'Guessan Broudje, Constant Victorien Ako Edi, Firmain N'Dri Yokoly, William Olatondji Adimi, Ruth-Marie Adjoua Kouame, Valentin Anian, Rosina Kyerematen, Alexander Egyir-Yawson, Samson Kiware, Samuel Kweku Dadzie (2026). Additional file 3 of Can dual active ingredient Interceptor® G2 insecticide-treated net (ITN) replace indoor residual spraying (IRS) efficiently? A case study in Sakassou, Côte d'Ivoire. *Figshare*. <https://doi.org/10.6084/m9.figshare.33099876.v1>
2. Joseph Chabi, Gloria Salome Shirima, Brian Masanja, Sylvester Coleman, Constant Guy N'Guessan Gbalegba, Bernard Loukou Kouassi, Brice Renaud N'Guessan Broudje, Constant Victorien Ako Edi, Firmain N'Dri Yokoly, William Olatondji Adimi, Ruth-Marie Adjoua Kouame, Valentin Anian, Rosina Kyerematen, Alexander Egyir-Yawson, Samson Kiware, Samuel Kweku Dadzie (2026). Can dual active ingredient Interceptor® G2 insecticide-treated net (ITN) replace indoor residual spraying (IRS) efficiently? A case study in Sakassou, Côte d'Ivoire. *Parasites & Vectors*. <https://doi.org/10.1186/s13071-026-07459-1>
3. Eric R. Lucas, Sanjay C. Nagi, Bilali Kabula, Bernard Batengana, William Kisinza, Alexander Egyir-Yawson, John Essandoh, Sam Dadzie, Joseph Chabi, Arjen E. Van't Hof, Emily J. Rippon, Dimitra Pipini, Nicholas J. Harding, Naomi A. Dyer, Chris S. Clarkson, Alistair Miles, David Weetman, Martin J. Donnelly (2024). Copy number variants underlie major selective sweeps in insecticide resistance genes in *Anopheles arabiensis*. *PLoS Biology*. <https://doi.org/10.1371/journal.pbio.3002898>
4. Sanjay C Nagi, Eric R Lucas, Alexander Egyir-Yawson, John Essandoh, Samuel Dadzie, Joseph Chabi, Luc S Djogbénou, Adandé A Medjigbodo, Constant V Edi, Guillaume K Ketoh, Benjamin G Koudou, Faisal Ashraf, Chris S Clarkson, Alistair Miles, David Weetman, Martin J Donnelly (2024). Parallel Evolution in Mosquito Vectors—A Duplicated Esterase Locus is Associated With Resistance to Pirimiphos-methyl in *Anopheles gambiae*. *Molecular Biology and Evolution*. <https://doi.org/10.1093/molbev/msae140>
5. Eric R. Lucas, Sanjay C. Nagi, Alexander Egyir-Yawson, John Essandoh, Samuel Dadzie, Joseph Chabi, Luc S. Djogbénou, Adandé A. Medjigbodo, Constant V. Edi, Guillaume K. Kétoh and 12 others (2023). Genome-wide association studies reveal novel loci associated with pyrethroid and organophosphate

resistance in *Anopheles gambiae* and *Anopheles coluzzii*. *Nature Communications*. <https://doi.org/10.1038/s41467-023-40693-0>

6. Alexander Egyir-Yawson (2022). Development of a Protein Food Bait for the Management of Fruit-Infesting Flies (Diptera: Tephritidae) in Ghana. *International Journal of Basic and Applied Sciences*. https://www.researchgate.net/profile/Max-Billah/publication/368425980_Development_of_a_Protein_Food_Bait_for_the_Management_of_Fruit-Infesting_Flies_Diptera_Tephritidae_in_Ghana/links/63e75aa5dea61217579e8568/Development-of-a-Protein-Food-Bait-for-the-Management-of-Fruit-Infesting-Flies-Diptera-Tephritidae-in-Ghana.pdf
7. Enoch Aninagyei, Patrick Adu, Tanko Rufai, Paulina Ampomah, Godwin Kwakye-Nuako, Alexander Egyir-Yawson, Desmond Omane Acheampong (2021). Effect of Asymptomatic *Plasmodium falciparum* Parasitaemia on Platelets Thrombogenicity in Blood Donors. *Indian Journal of Hematology and Blood Transfusion*. <https://doi.org/10.1007/s12288-020-01390-w>
8. Xavier Grau-Bové, Eric Lucas, Dimitra Pipini, Emily Rippon, Arjèn E. van 't Hof, Edi Constant, Samuel Dadzie, Alexander Egyir-Yawson, John Essandoh, Joseph Chabi, Luc Djogbénou, Nicholas J. Harding, Alistair Miles, Dominic Kwiatkowski, Martin J. Donnelly, David Weetman (2021). Resistance to pirimiphos-methyl in West African *Anopheles* is spreading via duplication and introgression of the *Ace1* locus. *PLoS Genetics*. <https://doi.org/10.1371/journal.pgen.1009253>
9. E. Aninagyei, D. Omane Acheampong, P. Ampomah, A. Egyir-Yawson, A. Boye (2020). Characterization of putative drug resistant markers in *Plasmodium falciparum* isolated in Ghanaian blood donors. *International Journal of Infectious Diseases*. <https://doi.org/10.1016/j.ijid.2020.09.1133>
10. E. Aninagyei, C.D. Tetteh, A. Egyir-Yawson, D. Omane Acheampong (2020). Effect of *P. falciparum* Kelch 13 and *Pfmdr1* gene polymorphisms on parasite clearance characteristics following Artemether-Lumefantrine therapy. *International Journal of Infectious Diseases*. <https://doi.org/10.1016/j.ijid.2020.09.1132>
11. Patrick Adu, Alexander Egyir-Yawson, Desmond Omane Acheampong (2020). Elevated IL-12, TNF-, and TNF-/IL-10 Ratios in Stored-Infected Whole Blood: Implications for Safe Haemotransfusion. *Journal of Immunology Research*. <https://search.ebscohost.com/login.aspx?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=23148861&AN=146678712&h=KWG1TgzkVLWVbFPLXQcvcjTvymiQUEbxT4OPd%2F4aU05ea9LNjACFOCYGuQ7xSH0g936qX0QUVHx1o5OWsDpg2Q%3D%3D&crl=c>
12. Enoch Aninagyei, Patrick Adu, Alexander Egyir-Yawson, Desmond Omane Acheampong (2020). Elevated IL-12, TNF- α , and TNF- α /IL-10 Ratios in Stored *Plasmodium falciparum* -Infected Whole Blood: Implications for Safe Haemotransfusion. *Journal of Immunology Research*. <https://doi.org/10.1155/2020/9394585>
13. Edna Dzifa Doe, Godwin Kwakye-Nuako, Alexander Egyir-Yawson (2020). Identification of Blood Meal of Sand Flies in a Cutaneous Leishmaniasis Endemic Area, Volta Region-Ghana. *American Journal of Biomedical and Life Sciences*. <https://doi.org/10.11648/j.ajbls.20200804.12>
14. Edna Dzifa Doe, Godwin Kwakye-Nuako, Seth Offei Addo, Alexander Egyir-Yawson (2020). Identification of Sand Flies (Diptera: Psychodidae) Collected from Cutaneous Leishmaniasis Endemic Focus in the Ho Municipality, Ghana. *International Annals of Science*. <https://doi.org/10.21467/ias.10.1.33-44>
15. Francis Apaatah, Michael Osae, Ekene Nwaefuna, Fred Aboagye-Antwi, Alexander Egyir-Yawson, Langbong Bimi (2020). Trypanosome prevalence in pigs and tsetse flies from selected areas of Jomoro district of the western region of Ghana. *Veterinary Parasitology Regional Studies and Reports*. <https://doi.org/10.1016/j.vprsr.2020.100444>
16. Enoch Aninagyei, Stella Smith-Graham, Alex Boye, Alexander Egyir-Yawson, Desmond Omane Acheampong (2019). Evaluating 18s-rRNA LAMP and selective whole genome amplification (sWGA) assay in detecting asymptomatic *Plasmodium falciparum* infections in blood donors. *Malaria Journal*. <https://doi.org/10.1186/s12936-019-2850-7>
17. Alexander Egyir-Yawson, P Adu (2019). Evaluation of haemato-biochemical parameters and serum levels of 8-iso-prostaglandin F2 α oxidative stress biomarker in sickle cell-malaria comorbidity. *J Appl Microb Res*. <https://www.academia.edu/download/121141167/JAMBR-120.pdf>
18. Luigi Sedda, Eric R. Lucas, Luc S. Djogbénou, Ako V. C. Edi, Alexander Egyir-Yawson, Bilali I. Kabula, Janet

Midega, Eric Ochomo, David Weetman, Martin J. Donnelly (2019). Improved spatial ecological sampling using open data and standardization: an example from malaria mosquito surveillance. *Journal of The Royal Society Interface*. <https://doi.org/10.1098/rsif.2018.0941>

19. Alexander Egyir-Yawson, G Kwakye-Nuako (2019). Knowledge, attitude and practices related to cutaneous leishmaniasis in endemic communities in the Volta region of Ghana. *Int J Healthc Sci*. <https://ir.ucc.edu.gh/server/api/core/bitstreams/12756602-8dde-4b50-9a93-4f5fbbd0fdb6/content>
20. Enoch Aninagyei, Emmanuel Tetteh Doku, Patrick Adu, Alexander Egyir-Yawson, Desmond Omane Acheampong (2018). Storage related haematological and biochemical changes in Plasmodium falciparum infected and sickle cell trait donor blood. *BMC Hematology*. <https://doi.org/10.1186/s12878-018-0128-x>
21. Jacob M. Riveron, Michael Osae, Alexander Egyir-Yawson, Helen Irving, Sulaiman S. Ibrahim, Charles S. Wondji (2016). Multiple insecticide resistance in the major malaria vector Anopheles funestus in southern Ghana: implications for malaria control. *Parasites & Vectors*. <https://doi.org/10.1186/s13071-016-1787-8>
22. Ekene K. Nwaefuna, Richmond Afoakwah, Verner N. Orish, Alexander Egyir-Yawson, Johnson N. Boampong (2015). Effectiveness of Intermittent Preventive Treatment in Pregnancy with Sulphadoxine-Pyrimethamine against Submicroscopic falciparum Malaria in Central Region, Ghana. *Journal of Parasitology Research*. <https://doi.org/10.1155/2015/959427>
23. Richmond Afoakwah, Johnson N. Boampong, Alexander Egyir-Yawson, Ekene K. Nwaefuna, Orish N. Verner, Kwame K. Asare (2014). High prevalence of PfCRT K76T mutation in Plasmodium falciparum isolates in Ghana. *Acta Tropica*. <https://doi.org/10.1016/j.actatropica.2014.03.030>
24. Pinto J, Egyir-Yawson A, Vicente JL, Gomes B, Santolamazza F, Moreno M, Charlwood JD, Simard F, Elissa N, Weetman D, Donnelly MJ, Caccone A, della Torre A (2013). Geographic population structure of the African malaria vector Anopheles gambiae suggests a role for the forest-savannah biome transition as a barrier to gene flow. *Evolutionary Applications*. <https://doi.org/10.1111/eva.12075>
25. Rosemary Susan Lees, Bart Knols, Romeo Bellini, Mark Q. Benedict, Ambicadutt Bheecarry, Hervé Christophe Bossin, Dave D. Chadee, Jacques Charlwood, Roch K. Dabiré, Luc Djogbenou, ... Alexander Egyir-Yawson and 11 others (2013). Review: Improving our knowledge of male mosquito biology in relation to genetic control programmes. *Acta Tropica*. <https://doi.org/10.1016/j.actatropica.2013.11.005>
26. A EGYIR-YAWSON (2012). Feeding frequency and survival of Anopheles gambiae in a rice-growing area in Ghana. *Medical and Veterinary Entomology*. <https://doi.org/10.1111/j.1365-2915.2011.00987.x>
27. Sara N. Mitchell, Bradley J. Stevenson, Pie Müller, Craig S. Wilding, Alexander Egyir-Yawson, Stuart G. Field, Janet Hemingway, Mark J. I. Paine, Hilary Ranson, Martin James Donnelly (2012). Identification and validation of a gene causing cross-resistance between insecticide classes in Anopheles gambiae from Ghana. *Proceedings of the National Academy of Sciences*. <https://doi.org/10.1073/pnas.1203452109>
28. J.D. Charlwood, E.V.E. Tomás, P. Salgueiro, A. Egyir-Yawson, R.J. Pitts, J. Pinto (2011). Studies on the behaviour of peridomestic and endophagic M form Anopheles gambiae from a rice growing area of Ghana. *Bulletin of Entomological Research*. <https://doi.org/10.1017/s0007485311000125>
29. Alexander E Yawson (2007). Ecological Zones Rather Than Molecular Forms Predict Genetic Differentiation in the Malaria Vector Anopheles gambiae s.s. in Ghana. *Genetics*. <https://academic.oup.com/genetics/article-abstract/175/2/751/6061171>
30. Alexander E Yawson (2007). INVESTIGATIONS: Population and evolutionary genetics Ecological zones rather than molecular forms predict genetic differentiation in the malaria vector Anopheles gambiae ss in *Genetics*. <https://scholar.google.com/scholar?cluster=13880544098983575187&hl=en&oi=scholar>
31. A Egyir-Yawson (2003). Distribution of the molecular forms of Anopheles gambiae and pyrethroid resistance in southern Ghana. *Transactions of The Royal Society of Tropical Medicine and Hygiene*. <https://academic.oup.com/trstmh/article-abstract/97/6/626/1933639>

Conference papers 1

1. Alexander Yawson (2018). The malariagen vector observatory: a network for the genomic surveillance of malaria vectors in Africa and southeast Asia. *AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE*. <https://www.documentation.ird.fr/hor/PAR00019142>

Reports 2

1. Alexander Egyir-Yawson (2014). Improving our knowledge of male mosquito biology in relation to genetic control programmes. *Acta tropica*. <https://www.sciencedirect.com/science/article/pii/S0001706X13003288>
2. Alexander Egyir-Yawson (2013). Data from: Geographic population structure of the African malaria vector *Anopheles gambiae* suggests a role for the forest-savannah biome transition as a barrier to gene flow. *Dryad*. <https://esploro.umontpellier.fr/esploro/outputs/dataset/Data-from-Geographic-population-structure-of/99147840709311>

Theses 1

1. Alexander Prince Egyir-Yawson (2005). The biology and genetics of the molecular forms of *Anopheles gambiae* ss in Ghana. *University of Liverpool*. <https://livrepository.liverpool.ac.uk/3186685/1/30650884.pdf>