Kwaku Adomako

Senior Lecturer · Department of Animal Science
Kwame Nkrumah University of Science and Technology

ORCID 0000-0001-7218-2331 · Homepage knust.edu.gh · Google Scholar scholar.google.com/citations?user=7KnmiPMAAAAJ&hl=en · Profile knust.peerford.com/staff/19ce2fd0-43f6-47cd-a038-ad80ed827e38

RESEARCH

Interests	Animal breeding · genetics · poulltry production and management
Areas	Animal Science and Zoology · Agronomy and Crop Science · Genetics · Insect Science · Archeology · Biochemistry

RESEARCH SUMMARY

63	437	9	9	1.25	17%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 63 publications listed below, 2009–2026. Field-weighted impact is the mean over the 29 works scored for it; 1.00 is the world average for works of the same field, type and year. 5 of the 29 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

ASSOCIATE PROFESSOR 2011–present
ANIMAL SCIENCE, Kwame Nkrumah University of Science and Technology, KUMASI, Ghana

PUBLICATIONS

Journal articles 55

1. Dennis Owusu Acheampong, **Kwaku Adomako**, Bismark Kyei (2026). Integrated assessment of growth performance, carcass characteristics, and economic efficiency of three broiler strains raised under humid-tropical conditions. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0351927
2. Bismark Kyei, Christian Asumah, Philip Appiah, Hamdan Musah, Samuel Ankrah Twumasi, Emmanuel Asumah, Richmond Galaa, Emmanuel Anane, Frederick Anaaba, Christian Siaw, Prince Bondah Anane, George Oteng Asare, Justice Forson, **Kwaku Adomako** (2025). Comparative analysis of the effect of genotype on the growth performance, carcass characteristics and economic efficiency of cobb 500 and ross 308 modern commercial broiler chickens raised in the tropics. *Poultry Science*. https://doi.org/10.1016/j.psj.2025.106346
3. **K Adomako**, L Asamoah (2025). Effects of naked neck and frizzle genes on growth and egg-laying performance of chickens in the tropics in an era of climate change. *International Journal of Biometeorology*. https://doi.org/10.1007/s00484-025-02853-3
4. B Opoku, EA Osekre, **K Adomako**, BA Hagan, GP Opit, A Bosomtwe (2025). Evaluation of zerofly hermetic and polypropylene bags for preserving maize for improved layer production in Ghana. *African Journal of Food Agriculture Nutrition and Development*. https://doi.org/10.18697/ajfand.140.24815
5. Valentin Mujyambere, **Kwaku Adomako**, Martin Ntawubizi, Laetitia Nyinawamwiza, Judith Uwihirwe, Alexander Wireko Kena (2025). Genetic diversity and relationship of Bugesera and Rwamagana indigenous chicken populations with SASSO chickens using DArTseq SNPs. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0331316
6. Dawolor Nusue KANASUAH, **Kwaku ADOMAKO**, Bernard Ato HAGAN, Oscar Simon OLYMPIO (2025). Influence of feather genotype, storage duration and temperature on the external and internal qualities of

chicken table eggs. *Online Journal of Animal and Feed Research*. https://doi.org/10.51227/ojafr.2025.4

7. Gregory Tamba Dunga, **Kwaku Adomako**, Bernard Ato Hagan, Jacob Alhassan Hamidu, Oscar Simon Olympio (2025). The effects of naked neck and frizzle genes on the fertility, hatchability, egg quality and pterylosis of locally developed commercial layer parent lines. *Tropical Animal Health and Production*. https://doi.org/10.1007/s11250-025-04335-5
8. Selorm Sovi, **Kwaku Adomako**, Bismark Kyei, Alexander Wireko Kena, Oscar Simon Olympio, Samuel E. Aggrey (2024). A comparative study of population structure and genetic diversity of commercial and indigenous chickens from different agro-ecological zones in Ghana using SilicoDArT and SNP markers. *Gene*. https://doi.org/10.1016/j.gene.2024.148823
9. **Kwaku Adomako**, Bertha Yayra Ahiabli, Jacob Alhassan Hamidu, Oscar Simon Olympio, Edward Yeboah (2024). Biosecurity Within Poultry Farms in the Ashanti Region of Ghana. *Proceedings of the National Academy of Sciences India Section B Biological Sciences*. https://doi.org/10.1007/s40011-023-01535-7
10. **K Adomako**, G Deku (2024). Effect of High Fibre Diets on the Post-weaning Growth Performance of Rabbits. *Ghana Journal of Science, Technology and Development*. https://gjstd.org/index.php/GJSTD/article/view/448
11. **K. Adomako**, T. Kwadwo, D.K. Benni, J. Kwaning, N.K. Asante, A.J. Nyaaba, S. Abdulai, S. Appoh (2024). Effect of different sources of drinking water on the growth performance, carcass characteristics, and hematological indices of broiler chickens. *Ghanaian Journal of Animal Science.*. https://doi.org/10.4314/gjansci.v15i1.5
12. Valentin Mujyambere, **Kwaku Adomako**, Oscar Simon Olympio (2024). Effectiveness of DArTseq markers application in genetic diversity and population structure of indigenous chickens in Eastern Province of Rwanda. *BMC Genomics*. https://doi.org/10.1186/s12864-024-10089-5
13. B Opoku, EA Osekre, GP Opit, A Bosomtwe, **K Adomako** (2024). Efficacy of Zerofly® hermetic and polypropylene storage bags for conservation of maize in layer poultry farms in Ghana. *African Journal of Food Agriculture Nutrition and Development*. https://doi.org/10.18697/ajfand.134.24630
14. **Kwaku Adomako**, Selorm Sovi, Bismark Kyei, Jacob Alhassan Hamidu, Oscar Simon Olympio, Samuel E. Aggrey (2024). Phenotypic characterization and analysis of genetic diversity between commercial crossbred and indigenous chickens from three different agro-ecological zones using DArT-Seq technology. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0297643
15. D.K. Kpegah, **K. Adomako**, O.S. Olympio (2024). The evaluation of laying performance, egg quality, fertility, hatchability, and chick quality of SA51A and SA31L broiler breeders in Ghana. *Ghanaian Journal of Animal Science.*. https://doi.org/10.4314/gjansci.v15i1.4
16. B Opoku, EA Osekre, **K Adomako**, KO Amoah, GP Opit, A Bosomtwe (2024). The growth performance, carcass characteristics and blood profile of broilers fed on yellow maize stored in polypropylene and zerofly® hermetic bags. *African Journal of Food Agriculture Nutrition and Development*. https://doi.org/10.18697/ajfand.132.24210
17. Walid S. Habashy, **Kwaku Adomako**, Manal M. Abdel-Rahman (2023). Molecular Characterization of the NRAMP1 Gene and Blood Parameters of Sinai and Lohman Brown Chickens in Egypt. *Journal of World s Poultry Research*. https://doi.org/10.36380/jwpr.2023.23
18. P. Mensah, **K. Adomako**, B.A. Hagan, J.A. Hamidu, S.O. Olympio (2023). Qualitative mutant traits within the indigenous chicken population in selected ecological zones of Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2023.e01695
19. Benjamin Ackon Eghan Jnr, Benjamin Tawiah, Benjamin K. Asinyo, **Kwaku A. Adomako**, Benjamin Eghan (2023). The exploration of near-extinct indigenous Ghanaian cultural symbols for interior decoration. *Cogent Arts and Humanities*. https://doi.org/10.1080/23311983.2023.2243715
20. W.S. Habashy, **K. Adomako** (2023). The relationship between egg production, reproductive hormones, and the GDF9 gene in three different chicken strains. *Animal Gene*. https://doi.org/10.1016/j.angen.2023.200147
21. **K Adomako**, JA Hamidu (2022). Effects of feed restriction and early age thermal conditioning on growth

performance and carcass characteristics of meat-type chickens. *Ghana J. Agric. Sci*. https://www.researchgate.net/profile/Kwaku-Adomako/publication/369881319_Effects_of_Feed_Restriction_and_Early_Age_Thermal_Conditioning_on_Growth_Performance_and_Carcass_Characteristics_of_Meat-Type_Chickens/links/643070c44e83cd0e2f99a873/Effects-of-Feed-Restriction-and-Early-Age-Thermal-Conditioning-on-Growth-Performance-and-Carcass-Characteristics-of-Meat-Type-Chickens.pdf?origin=journalDetail&_tp=eyJwYWdlIjoiam91cm5hbERldGFpbCJ9

22. Ishmael N.S Ankamah, **K Adomako**, YO Frimpong (2022). Effects of the naked neck phenotype and feed withdrawal on growth performance and carcass characteristics of F1 crossbred broilers from a cross between local naked neck males …. *African Journal of Agricultural Research*. https://academicjournals.org/journal/AJAR/article-full-text/A6018A069503

23. C. Asumah, **K. Adomako**, O. S. Olympio, B. A. Hagan, E. D. Yeboah (2022). Influence of thermoregulatory (Na & F) genes on performance and blood parameters of F2 and F3 generations of crosses of local and commercial chickens. *Tropical Animal Health and Production*. https://doi.org/10.1007/s11250-022-03207-6

24. **K Adomako**, JA Hamidu (2022). The effects of feather type and colour on egg production and quality characteristics of local-exotic crossbred layers. *Ghanaian J Anim Sci*. https://www.researchgate.net/profile/Kwaku-Adomako/publication/369972331_THE_EFFECTS_OF_FEATHER_TYPE_AND_COLOUR_ON_EGG_PRODUCTION_AND_QUALITY_CHARACTERISTICS_OF_LOCAL-EXOTIC_CROSSBRED_LAYERS/links/643727fbad9b6d17dc531774/THE-EFFECTS-OF-FEATHER-TYPE-AND-COLOUR-ON-EGG-PRODUCTION-AND-QUALITY-CHARACTERISTICS-OF-LOCAL-EXOTIC-CROSSBRED-LAYERS.pdf

25. JA Hamidu, **K Adomako** (2021). Fatty Acids and Amino Acids for Table Eggs Enrichment. *Ghanaian Journal of Animal Science*. https://scholar.google.com/scholar?cluster=15541692042132118895&hl=en&oi=scholarr

26. Valentin Mujyambere, **Kwaku Adomako**, Simon O. Olympio, Martin Ntawubizi, Laetitia Nyinawamwiza, Janvier Mahoro, Andrew Conroy (2021). Local chickens in East African region: their production and potential. *Poultry Science*. https://doi.org/10.1016/j.psj.2021.101547

27. **OSO Kwaku Adomako**, JA Hamidu (2020). The level of defective eggs among three strains of commercial egg-type chickens and its economic implications. *Ghanaian Journal of Animal Science*. https://www.ajol.info/index.php/gjansci/article/view/228172

28. R.K. Agbehadzi, J.A. Hamidu, **K. Adomako**, R. Enu (2019). Economic contribution of local hatchery performance in the poultry value chain in Ghana. *Poultry Science*. https://doi.org/10.3382/ps/pez020

29. **K Adomako** (2019). Molecular Basis of Nutrient Utilization and Gene Expression of Transporters in Heat-Stressed Broilers. *Plant and Animal Genome XXVII Conference (January 12-16, 2019)*. https://scholar.google.com/scholar?cluster=4097950188336643119&hl=en&oi=scholarr

30. JA Hamidu, **K Adomako** (2019). Potential of two local commercial hybrid chicken strains:(ii) egg quality. *Ghanaian J Anim Sci*. https://scholar.google.com/scholar?cluster=4143435491625829343&hl=en&oi=scholarr

31. JA Hamidu, **K Adomako** (2018). Effects of omega-3 fatty acids enrichment with flaxseed oil and egg storage duration on egg quality. *http://www.lrrd.org/lrrd30/3/jaha30045.html*. https://www.researchgate.net/profile/Jacob-Hamidu/publication/323704580_Effects_of_omega-3_fatty_acids_enrichment_with_flaxseed_oil_and_egg_storage_duration_on_egg_quality/links/5ab02a40a6fdcc1bc0be11b1/Effects-of-omega-3-fatty-acids-enrichment-with-flaxseed-oil-and-egg-storage-duration-on-egg-quality.pdf

32. **JKH Kwaku Adomako**, J. A. Hamidu (2018). Growth performance and carcass characteristics of crossbred frizzle (FF, Ff) and normal feathered (ff) cockerels. *Ghanaian Journal of Animal Science*. https://scholar.google.com/scholar?cluster=3509864990909709244&hl=en&oi=scholarr

33. Alex Addo, Jacob Alhassan Hamidu, Addo Yaw Ansah, **Kwaku Adomako** (2018). Impact of Egg Storage Duration and Temperature on Egg Quality, Fertility, Hatchability and Chick Quality in Naked Neck Chickens. *International Journal of Poultry Science*. https://doi.org/10.3923/ijps.2018.175.183

34. JA Hamidu, **K Adomako** (2018). Impact of layer egg storage conditions on eggs and embryo quality indices prior to incubation. *http://www.lrrd.org/lrrd30/11/jaham30184.html*. https://www.researchgate.net/profile/Jacob-Hamidu/publication/329537846_Impact_of_layer_egg_storage_conditions_on_eggs_and_embryo_quality_indices_prior_to_incubation/links/5c646a9c45851582c3e6db72/Impact-of-layer-egg-storage-conditions-on-eggs-and-embryo-quality-indices-prior-to-incubation.pdf

35. **K Adomako** (2018). Molecular and cellular mechanisms that underlie genes and antioxidant enzyme activities in meat-type birds during heat stress. *World Congress on Genetics Applied to Livestock Production, Auckland, New Zealand*. https://www.academia.edu/download/95005444/molecular-and-cellular-mechanisms-underlie-genes-and-antioxidant-enzyme-activities-meat-type-birds.pdf

36. RAPHAEL ALOA AYIZANGA, BB Kayang, **K Adomako** (2018). Rural pig production systems and breeding preferences of pig farmers in Northern Ghana. *Ghanaian Journal of Animal Science*. https://cgspace.cgiar.org/items/752f696d-0196-4034-be44-928295d6c069

37. JA Hamidu, **K Adomako** (2017). Assessing incubation and performance deficiencies to boast broiler production. *Am. Res. J. Agric*. https://scholar.google.com/scholar?cluster=3784010917734979343&hl=en&oi=scholarr

38. W.S. Habashy, M.C. Milfort, **K. Adomako**, Y.A. Attia, R. Rekaya, S.E. Aggrey (2017). Effect of heat stress on amino acid digestibility and transporters in meat-type chickens. *Poultry Science*. https://doi.org/10.3382/ps/pex027

39. MIMLA R. A. Ayizanga, BB Kayang, **K Adomako**, C Adenyo (2016). Genetic diversity of some Ghanaian pigs based on microsatellite markers. *Livest. Res. Rural Dev*. https://www.lrrd.cipav.org.co/lrrd28/2/ayiz28024.html

40. **K Adomako** (2016). Transcriptome analysis of genes in the protein biosynthesis and ubiquitin-proteosome pathways in meat-type chickens under heat stress. *Proceedings of the 25th World's Poultry Congress, Beijing, China*. https://scholar.google.com/scholar?cluster=8031875730281388500&hl=en&oi=scholarr

41. **Kwaku Adomako** (2015). Optimizing feed withdrawal in broiler effect of feed withdrawal timing on broiler carcass yield in tropics. *American Research Journal of Agriculture*. https://scholar.google.com/scholar?cluster=2488867288085008023&hl=en&oi=scholarr

42. JA Hamidu, **K Adomako** (2014). Comparative analysis of local and foreign hatched day-old chicks in Ghana. *Ghana. J. Anim. Sci*. https://scholar.google.com/scholar?cluster=9223173174543391117&hl=en&oi=scholarr

43. **K. Adomako**, O.S. Olympio, J.K. Hagan, J.A. Hamidu (2014). Effect of the frizzle gene (F) on egg production and egg quality of laying hens kept in tropical villages. *British Poultry Science*. https://doi.org/10.1080/00071668.2014.963026

44. **K. Adomako**, O. S. Olympio, J. K. Hagan, J. A. Hamidu (2014). Growth performance of crossbred naked neck and normal feathered laying hens kept in tropical villages. *British Poultry Science*. https://doi.org/10.1080/00071668.2014.960805

45. HAGAN JULIUS KOFI, **K Adomako** (2013). Effect of incorporation of heat-tolerant genes into Lohmann brown layers on egg production and quality under hot and humid environments. *Indian Journal of Animal Sciences*. https://www.researchgate.net/profile/Julius-Hagan/publication/287572096_Effect_of_incorporation_of_heat-tolerant_genes_into_Lohmann_Brown_layers_on_egg_production_and_quality_under_hot_and_humid_environments/links/5e1091cf4585159aa4b1618d/Effect-of-incorporation-of-heat-tolerant-genes-into-Lohmann-Brown-layers-on-egg-production-and-quality-under-hot-and-humid-environments.pdf

46. Julius K. Hagan, **Kwaku Adomako**, Simon Oscar Olympio (2013). Effect of incorporation of thermo-regulatory genes into exotic layers on egg production and quality under tropical environment. *Tropical Animal Health and Production*. https://doi.org/10.1007/s11250-013-0457-5

47. **K Adomako**, JA Hamidu (2013). Effects of genotype and feather color on egg quality traits of local-Exotic crossbreeds. *Proceedings GSAP 2013 conference*. https://scholar.google.com/scholar?cluster=10477087739070471092&hl=en&oi=scholarr

48. **K Adomako** (2013). Performance of indigenous naked neck, frizzle, and normal feather birds in the

Ashanti Region of Ghana. *Ghana J Anim Sci*. https://scholar.google.com/scholar?cluster=2841715516775823782&hl=en&oi=scholarr

49. **K Adomako**, JA Hamidu (2013). The effect of three different feather genotypes on the laying performance of two lines of layer parents. *GSAP*.
50. JK Hagan, **K Adomako**, OS Olympio (2012). Effects of Naked-Neck and Frizzle Genes on Growth Performance and Carcass Characteristics Of Crossbred Cockerels. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v31i3.5
51. F Gbogbo, **KA Adomako** (2011). Comparative efficacy of four rodenticides on the Ghanaian market. *Journal of Ghana Science Association*. https://ghanascience.gov.gh/wp-content/uploads/2018/04/Gbogbo-1.pdf
52. HAGAN JULIUS KOFI, **K Adomako** (2010). Egg production performance of crossbred naked-neck and frizzle pullets reared under intensive management. *Ghana Journal of Animal Science*. https://scholar.google.com/scholar?cluster=4788533510421818629&hl=en&oi=scholarr
53. **K Adomako** (2010). Egg production performance of first and second filial generation naked neck (NaNa, Nana) and normal feathered (nana) birds of a cross between indigenous naked neck (NaNa, Nana .... *Livestock Research for Rural Development*. https://lrrd.cipav.org.co/lrrd22/12/adom22223.htm
54. **K Adomako** (2010). The productivity of local chicken in the Ashanti Region of Ghana. *Ghanaian Journal of Animal Sciences*. https://scholar.google.com/scholar?cluster=11890095659833176418&hl=en&oi=scholarr
55. **K Adomako** (2009). Potentials of indigenous naked neck and frizzle birds in the Ashanti region of Ghana. *Proceedings of the sixteenth Biennial Conference of the Ghana Society of Animal Production (GASP)*. https://scholar.google.com/scholar?cluster=17246225736824608095&hl=en&oi=scholarr

Conference papers 2

1. S.E. Aggrey, A.F.A. Ghareeb, A.L. Fuller, M.C. Milfort, J.C. Foutz, G.H. Schneiders, W.S. Habashy, **K. Adomako**, R. Rekaya (2022). 589. Host transcriptome response of meat-type chickens infected with Eimeria maxima and reared under heat stress environment. https://doi.org/10.3920/978-90-8686-940-4_589
2. **Kwaku Adomako** (2014). EFFECT OF FEED WITHDRAWAL TIMING ON BROILER CARCASS YIELD. *GHANA ANIMAL SCIENCE ASSOCIATION*. https://www.academia.edu/download/59962319/Full_proceedings__.201420190708-57017-59p2r9.pdf#page=311

Reports 6

1. **K Adomako** (2017). What You Say Is What You Are: a Foucauldian Understanding of Sexuality and National Subjectivity in Post-Colonial Ghana. *Graduate Institute of International and Development Studies*. https://repository.graduateinstitute.ch/record/295383
2. **K Adomako** (2013). Growth performance of crossbred frizzle (FF, Ff) and normal feathered (ff) cockerels. *GSAP*.
3. **K Adomako** (2013). The effect of the naked neck (Na) and frizzling (F) genes on the feather arrangement of chickens. *GSAP*.
4. **K Adomako** (2009). A comparison of some production traits of crossbred naked neck and frizzled pullets in the tropics. *GSAP*.
5. **K Adomako** (2009). The influence of the thermoregulatory genes NA (naked neck) and F (frizzle) on growth and carcass traits of cockerels in deep litter pens. *GSAP*.
6. **K Adomako** (2009). The performance of local chickens in the Ashanti Region of Ghana. *GSAP*.