

ENOCH ADU GYAMFI APPIAH

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ACADEMIC TRAINING

- Postdoctoral Research Associate, State University of New York at Albany, USA
- Postdoctoral Research Associate, Iowa State University, USA
- PhD in Pathology and Pathophysiology, Chongqing Medical University, China
- MS in Chemical Pathology (Clinical Biochemistry), Kwame Nkrumah University of Science and Technology, Ghana
- BS in Human Biology, University of Cape Coast, Ghana

FACULTY APPOINTMENTS

- **2025 – Date:** Assistant Professor, Department of Biology, University of Wisconsin-Stout, USA
- **2017 – 2018:** Lecturer, Department of Physiology, School of Medical Sciences, University of Cape Coast, Ghana
- **2017 – 2018:** Adjunct Lecturer, Klintaps University College of Health Sciences, Ghana
- **2017 – 2017:** Adjunct Tutor, Afia Kobi Nurses Training College, Ghana

RESEARCH SERVICE

I am an adhoc reviewer for several journals such as:

- Cell Death and Disease
- Biochemical Pharmacology
- Molecular Medicine
- Frontiers in Endocrinology
- Reproductive Biology and Endocrinology
- Frontiers in Genetics
- Frontiers in Cell and Developmental Biology
- Bioengineered
- International Journal of General Medicine
- SN Comprehensive Clinical Medicine
- Women and Health
- Immunity, Inflammation and Disease

LIST OF PUBLISHED SCIENTIFIC ARTICLES

- **Adu-Gyamfi EA, Salamah J, Cheeran EA, Lee B-K.** Bisphenol S moderately decreases the expression of syncytiotrophoblast marker genes and induces apoptosis in human trophoblast lineages. *Environ Pollut* 2024; 343:123259.

- **Adu-Gyamfi, E. A.**, Lamptey, J., Chen, X. M., Li, F. F., Li, C., Ruan, L. L., ... & Ding, Y. B. (2021). Iodothyronine deiodinase 2 (DiO₂) regulates trophoblast cell line cycle, invasion and apoptosis; and its downregulation is associated with early recurrent miscarriage. *Placenta*, *111*, 54-68.
- **Adu-Gyamfi EA**, Cheeran EA, Salamah J, Enabulele DB, Tahir A, Lee B-K. Long non-coding RNAs: a summary of their roles in placenta development and pathology. *Biol Reprod* 2024:ioad179.
- **Adu-Gyamfi EA**, Cheeran EA, Salamah J, Lee B-K. Long noncoding RNA H19 in ovarian biology and placenta development. *Cell Biochem Funct* 2024; 42:e3907.
- **Adu-Gyamfi, E. A.**, Cheeran, E. A., Salamah, J., & Lee, B. K. (2024). Mechanistic actions of long non-coding RNA MALAT1 within the ovary and at the feto-maternal interface. *Molecular Biology Reports*, *51*(1), 1-10.
- **Adu-Gyamfi, E. A.**, Rosenfeld, C. S., & Tuteja, G. (2022). The impact of bisphenol A on the placenta. *Biology of Reproduction*, *106*(5), 826-834.
- **Adu-Gyamfi, E. A.**, Czika, A., Liu, T. H., Gorleku, P. N., Fondjo, L. A., Djankpa, F. T., ... & Wang, Y. X. (2021). Ephrin and Eph receptor signaling in female reproductive physiology and pathology. *Biology of Reproduction*, *104*(1), 71-82.
- **Adu-Gyamfi, E. A.**, Czika, A., Gorleku, P. N., Ullah, A., Panhwar, Z., Ruan, L. L., ... & Wang, Y. X. (2021). The involvement of cell adhesion molecules, tight junctions, and gap junctions in human placentation. *Reproductive Sciences*, *28*, 305-320.
- **Adu-Gyamfi, E. A.**, Ding, Y. B., & Wang, Y. X. (2020). Regulation of placentation by the transforming growth factor beta superfamily. *Biology of Reproduction*, *102*(1), 18-26.
- **Adu-Gyamfi, E. A.**, Wang, Y. X., & Ding, Y. B. (2020). The interplay between thyroid hormones and the placenta: a comprehensive review. *Biology of Reproduction*, *102*(1), 8-17.
- **Adu-Gyamfi, E. A.**, Fondjo, L. A., Owiredu, W. K., Czika, A., Nelson, W., Lamptey, J., ... & Ding, Y. B. (2020). The role of adiponectin in placentation and preeclampsia. *Cell biochemistry and function*, *38*(1), 106-117.
- **Adu-Gyamfi, E. A.**, Djankpa, F. T., Nelson, W., Czika, A., Sah, S. K., Lamptey, J., & Wang, Y. X. (2020). Activin and inhibin signaling: From regulation of physiology to involvement in the pathology of the female reproductive system. *Cytokine*, *133*, 155105.
- **Adu-Gyamfi, E. A.**, Lamptey, J., Duan, F., Wang, Y. X., & Ding, Y. B. (2019). The transforming growth factor β superfamily as possible biomarkers of preeclampsia: a comprehensive review. *Biomarkers in Medicine*, *13*(15), 1321-1330.
- Kim, M., **Adu-Gyamfi, E. A.**, Kim, J., & Lee, B. K. (2023). Super-enhancer-associated transcription factors collaboratively regulate trophoblast-active gene expression programs in human trophoblast stem cells. *Nucleic Acids Research*, gkad215.
- Nelson, W., **Adu-Gyamfi, E. A.**, Czika, A., Wang, Y. X., & Ding, Y. B. (2020). Bisphenol A-induced mechanistic impairment of decidualization. *Molecular Reproduction and Development*, *87*(8), 837-842.
- Fondjo LA, **Adu-Gyamfi EA**, Owiredu WKBA, Turpin CA, Mante DA, Anto EO. Maternal serum adiponectin, leptin and adiponectin-leptin ratio as biomarkers of preeclampsia. *Edorium J Gynecol Obstet* 2016; 2:41 – 47.
- Lamptey, J., Li, F., **Adu-Gyamfi, E. A.**, Chen, X. M., Czika, A., Otoo, A., ... & Ding, Y. B. (2021). Downregulation of fascin in the first trimester placental villi is associated with early recurrent miscarriage. *Experimental Cell Research*, *403*(1), 112597.

- Lee, B. K., Salamah, J., Cheeran, E., & **Adu-Gyamfi, E. A.** (2024). Dynamic and distinct histone modifications facilitate human trophoblast lineage differentiation. *Scientific Reports*, 14(1), 4505.
- Duan, F. M., Fu, L. J., Wang, Y. H., **Adu-Gyamfi, E. A.**, Ruan, L. L., Xu, Z. W., ... & Ding, Y. B. (2021). THBS1 regulates trophoblast fusion through a CD36-dependent inhibition of cAMP, and its upregulation participates in preeclampsia. *Genes & Diseases*, 8(3), 353-363.
- Zhang, X., Li, B. Y., Fu, L. J., **Adu-Gyamfi, E. A.**, Xu, B. R., Liu, T. H., ... & Ding, Y. B. (2020). Stomatin-like protein 2 (SLP2) regulates the proliferation and invasion of trophoblast cells by modulating mitochondrial functions. *Placenta*, 100, 13-23.
- Lamptey, J., Czika, A., Aremu, J. O., Pervaz, S., **Adu-Gyamfi, E. A.**, Otoo, A., ... & Ding, Y. B. (2021). The role of fascin in carcinogenesis and embryo implantation. *Experimental Cell Research*, 409(1), 112885.
- Ruan, L. L., Chen, M. X., **Adu-Gyamfi, E. A.**, Geng, L. H., Fu, L. J., Wan, Q., & Ding, Y. B. (2023). Maternal Hepatitis B Virus Infection and Pregnancy Outcomes of Freeze-Thaw Embryo Transfer. *JAMA Network Open*, 6(7), e2323495-e2323495.
- Pervaz, S., Ullah, A., **Adu-Gyamfi, E. A.**, Lamptey, J., Sah, S. K., Wang, M. J., & Wang, Y. X. (2022). Role of CPXM1 in Impaired Glucose Metabolism and Ovarian Dysfunction in Polycystic Ovary Syndrome. *Reproductive Sciences*, 1-18.
- Liu, D. Y., Li, R. Y., Fu, L. J., **Adu-Gyamfi, E. A.**, Yang, Y., Xu, Y., ... & Ding, Y. B. (2021). SNP rs12794714 of CYP2R1 is associated with serum vitamin D levels and recurrent spontaneous abortion (RSA): a case-control study. *Archives of Gynecology and Obstetrics*, 1-12.
- Fondjo, L. A., Amoah, B., Annan, J. J., **Adu-Gyamfi, E. A.**, & Asamaoh, E. A. (2022). Hematobiochemical variability and predictors of new-onset and persistent postpartum preeclampsia. *Scientific Reports*, 12(1), 1-10.
- Fondjo, L. A., Tashie, W., Owiredu, W. K., **Adu-Gyamfi, E. A.**, & Seidu, L. (2021). High prevalence of vitamin D deficiency among normotensive and hypertensive pregnant women in Ghana. *BMC pregnancy and childbirth*, 21(1), 1-8.
- Song, H. L., Liu, T. H., Wang, Y. H., Li, F. F., Ruan, L. L., **Adu-Gyamfi, E. A.**, ... & Fu, L. J. (2021). Appropriate expression of P57kip2 drives trophoblast fusion via cell cycle arrest. *Reproduction*, 161(6), 633-644.
- Tashie, W., Fondjo, L. A., Owiredu, W. K., Ephraim, R. K., Asare, L., **Adu-Gyamfi, E. A.**, & Seidu, L. (2020). Altered bioavailability of nitric oxide and L-arginine is a key determinant of endothelial dysfunction in preeclampsia. *BioMed research international*, 2020.
- Wang, Y., Zhai, J., Wu, X., **Adu-Gyamfi, E. A.**, Yang, L., Liu, T., ... & Tang, J. (2022). LncRNA functional annotation with improved false discovery rate achieved by disease associations. *Computational and structural biotechnology journal*, 20, 322-332.
- Hu, Y. L., Wang, Y., Geng, L. H., Meng, X. Q., Xu, H. J., **Adu-Gyamfi, E. A.**, ... & Ding, Y. B. (2022). Effects of sequential cleavage and blastocyst embryo transfer on pregnancy outcomes in patients with poor ovarian response. *Journal of Reproductive Immunology*, 103780.
- Wang, Y., Hu, W.H., Wan, Q., Li, T., Qian, Y., Chen, M.X., Tang, X.J., Feng, Q., Meng, X.Q., **Adu-Gyamfi, E.A.** and Ding, Y.B., 2022. Effect of artificial cycle with or without GnRH-a pretreatment on pregnancy and neonatal outcomes in women with PCOS after frozen embryo transfer: a propensity score matching study. *Reproductive Biology and Endocrinology*, 20(1), pp.1-9.
- Ullah, A., Pervaz, S., **Adu-Gyamfi, E. A.**, Czika, A., Guo, M., Wang, M. J., & Wang, Y. X. (2022). CXCL13 and CXCR5 are upregulated in PCOS mice ovaries but downregulated following metformin administration. *Molecular and Cellular Endocrinology*, 111730.
- Chen, M., Meng, X.Q., Zhong, Z.H., Tang, X., Li, T., Feng, Q., **Adu-Gyamfi, E.A.**, Jia, Y., Lv, X.Y., Geng, L.H. and Zhu, L., 2022. An Individualized Recommendation for Controlled Ovary Stimulation Protocol in Women Who

Received the GnRH Agonist Long-Acting Protocol or the GnRH Antagonist Protocol: A Retrospective Cohort Study. *Front. Endocrinol. 13: 899000. doi: 10.3389/fendo.*

- Yang, J., Yao, Y. L., Lv, X. Y., Geng, L. H., Wang, Y., **Adu-Gyamfi, E. A.**, ... & Ding, Y. B. (2025). The Safety and Efficacy of inactivated COVID-19 vaccination in couples undergoing assisted reproductive technology: A prospective cohort study. *Vaccine, 45*, 126635.
- Czika, A., Yang, Y., Yang, J. P., **Adu-Gyamfi, E. A.**, Ullah, A., Ruan, L. L., ... & Ding, Y. B. (2022). A decrease in cluster of differentiation 2 expression on natural killer cells is associated with polycystic ovary syndrome but not influenced by metformin in a mouse model. *Biology of Reproduction.*
- Ullah, A., Wang, M. J., Yang, J. P., **Adu-Gyamfi, E. A.**, Czika, A., Sah, S. K., ... & Wang, Y. X. (2021). Ovarian inflammatory mRNA profiles of a dehydroepiandrosterone plus high-fat diet-induced polycystic ovary syndrome mouse model. *Reproductive BioMedicine Online.*
- Yang, J. P., Ullah, A., Su, Y. N., Otoo, A., **Adu-Gyamfi, E. A.**, Feng, Q., ... & Ding, Y. B. (2023). Glycyrrhizin ameliorates impaired glucose metabolism and ovarian dysfunction in a polycystic ovary syndrome mouse model. *Biology of Reproduction*, ioad048.
- Li K, Tan G, Zhang X, Lu W, Ren J, Si Y, **Adu-Gyamfi EA**, Li F, Wang Y, Xie B, Wang M. EIF4G1 Is a Potential Prognostic Biomarker of Breast Cancer. *Biomolecules.* 2022; 12(12):1756. <https://doi.org/10.3390/biom12121756>
- Lamptey, J., Oyelami, F. O., Owusu, M., Nkrumah, B., Idowu, P. O., **Adu-Gyamfi, E. A.**, ... & Adu-Sarkodie, Y. (2021). Genomic and epidemiological characteristics of SARS-CoV-2 in Africa. *PLOS Neglected Tropical Diseases, 15*(4), e0009335.
- Gorleku, P. N., Setorglo, J., Ofori, I., Edzie, E. K., Dzefi-Tettey, K., Piersson, A. D., ... & **Adu-Gyamfi, E. A.** (2020). Towards the scale and menace of unregulated sonography practice in Ghana. *Journal of Global Health Reports, 4*, e2020092.

LIST OF WRITTEN BOOKS

- The role of sex in the life of the youth
- Integrated science for Junior High Schools 1,2 & 3 in Ghana

LIST OF PUBLISHED ARTICLES ABOUT SOCIAL ISSUES

- The debate that PhD should be a requirement to teach in the university: My voice from afar
- Creation of the current strain of the coronavirus: What the non-professionals must know
- Should Christians dissociate from atheists to avoid getting polluted by them? My view.
- The standard of education at UCC is gradually falling
- Our chiefs deserve respect