

CURRICULUM VITAE

Personal data

Name: **Samson Olugbenga ADENIRAN, Ph.D.**
Local Govt. Area: Isin
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Education

2016-2021 Northeast Agricultural University Harbin, China
Ph.D. in Animal Genetics, Breeding and Reproduction
Dissertation title: Ameliorative Role of Seleno-L-methionine in LPS-induced Oxidative Stress and Apoptosis in Bovine Endometrial (BEND) cells

2023-till date University of Ibadan
Master of Science (Bioethics) *in view*

2014-2015 University of Lagos, Nigeria
M.Sc. in Cell Biology and Genetics (option in Cell and Molecular Biology)
Thesis title: Toll-like Receptors (TLR4 and TLR15) Expressions in three Nigerian Local Chickens (*Gallus gallus*)

2002-2007 Federal University of Agriculture Abeokuta, Nigeria
B.Agric. in Animal Breeding and Genetics (*Second Class Upper Division*)
Project title: Growth of Pure and Crossbred Chickens in Southwestern Nigeria

1992-1998 Ojora Memorial Secondary School, Tolu Complex, Olodi Apapa, Lagos State, Nigeria

1987-1992 Christ the King Primary School, Ajegunle Apapa, Lagos State, Nigeria

Experience

2022 Mountain Top University, Ogun State Nigeria
Lecture undergraduates Biotechnology courses
Lecture undergraduate and master's students Bioethics

2015-2016 Agricultural Science teacher at Engreg High School Somolu, Lagos State, Nigeria.
Created a good learning environment for students by instructing, planning, and delivering educative activities. Regularly evaluated the students' performance.

- 2013-2015 Agricultural Science and Biology teacher at Bostom Schools Ikorodu, Lagos State, Nigeria.
Provision of a good learning environment for students through planning, preparing, and delivering. Carry out regular students' assessments.
- 2013-2014 Project management team member who utilized excellent communication skills to facilitate science-based training for secondary students in Lagos State, Nigeria, under World Bank and Lagos Eko Project Collaboration (volunteer).
- 2008-2009 National Youth Service Corps (NYSC), a mandatory national service scheme for all Nigerian graduates.
General Secretary, NYSC Community Development Projects in Danja Local Government Area. Agricultural Science and Biology teacher at Community Day Secondary School, Dabai, Katsina State, Nigeria.
- 2007 My undergraduate research project involved raising 900-1000 poultry beds from artificial insemination point, egg collection, hatchery processing, hatching, brooding, and management routine from day old to table size or laying point. From day old, we took various parameters on each bird until the end of the experiment. I led a group of 9 other students in carrying out this research after taking instructions from lecturers.

Professional membership

- Society for Experimental Biology of Nigeria (NISEB)
- European Biotechnology Network
- European Federation of Biotechnology

Professional development

Harmonisation, Accreditation and Quality Assurance in African Higher Education (HAQAA2) **Diploma** for the successful completion of HAQAA2 MOOC series on African Regional and Continental Integration and Cooperation in Higher Education – Association of African Universities and OBREAL Global (2023)

Research experiences

- Periodically involved in bovine Sertoli cells isolation, carry out cell culture experiments on the ameliorative effects of toxicants on the perturbation of bovine Sertoli cells in vitro, and execution of downstream molecular experiments.
- Carry out cell culture experiments on bovine endometrial cells in vitro by stimulating the cells with cytotoxic substances while administering ameliorative drugs to study oxidative stress, apoptosis, and inflammation in the bovine species.
- Utilized various molecular techniques post cell culture to evaluate the expression levels of the toxicants and the ameliorative effects of antioxidants. Statistically analyzed the data obtained for discussion, presentation and prepare manuscripts for publication.

Research interests

Biotechnology, Genomics, Molecular Biology, Animal Science and Bioethics

Skills

- Laboratory skills: Cell culture, primer designs, DNA/RNA extraction and quantification, Polymerase Chain Reaction (PCR) amplification, PCR product clean-up, and troubleshooting, Cell cycle, SiRNA, gel electrophoresis, SDS-PAGE, Western blotting, regulation of gene expression.
- Research/Software skills: Efficient with Microsoft package; experimental design and proficient in statistical analysis and software (GraphPad Prism, SPSS, and GenStat).
- Other skills: Mentoring M.Sc. and new Ph.D. students, training them on the operation of lab equipment, revising/peer-reviewing manuscripts for publication.
- Languages: Proficient reading, writing, and speaking competencies for English, Yoruba, and Mandarin Chinese.

Scholarship and award

- Chinese Government Scholarship (2016-2021)

Conference Presentations

1. “Ameliorative Role of Seleno-L-Methionine in LPS-induced Oxidative Stress and Apoptosis in Bovine Endometrial (BEND) cells,” *Experimental Biology: A Panacea to Achieving Sustainable Development Goals in the Post-Pandemic Era*. Mountain Top University Ibafo, Ogun State, Nigeria. August 30 – September 2, 2022.

Scientific Publications

Peer-reviewed journal publications

1. Partyka, A., Babapour, A., Mikita, M., **Adeniran, S.**, & Nizański, W. (2023). Lipid peroxidation in avian semen. *Pol J Vet Sci*, 26(3), 497-509. <https://doi.org/10.24425/pjvs.2023.145050>
2. Li, Q., Chen, Y., **Adeniran, S. O.**, Qiu, Z., Zhao, Q., & Zheng, P. (2023). LIF regulates the expression of miR-27a-3p and HOXA10 in bovine endometrial epithelial cells via STAT3 pathway. *Theriogenology*. <https://doi.org/10.1016/j.theriogenology.2023.07.013>
3. Feng, R., Qin, X., Li, Q., **Adeniran, S. O.**, Huang, F., Li, Y., Zhao, Q., & Zheng, P. (2022). Progesterone regulates inflammation and receptivity of cells via the NF- κ B and LIF/STAT3 pathways. *Theriogenology*. 186, 50-59. <https://doi.org/10.1016/j.theriogenology.2022.04.005>
4. Feng, R., **Adeniran, S. O.**, Huang, F., Li, Y., Ma, M., Zheng, P., & Zhang, G. (2022). The ameliorative effect of melatonin on LPS-induced Sertoli cells inflammatory and tight junctions damage via suppression of the TLR4/MyD88/NF- κ B signaling pathway in newborn calf. *Theriogenology*, 179, 103-116. <https://doi.org/10.1016/j.theriogenology.2021.11.020>
5. **Adeniran, S. O.**, Zheng, P., Feng, R., Adegoke, E. O., Huang, F., Ma, M., Wang, Z., Ifarajimi, O. O., Li, X., & Zhang, G. (2022). The Antioxidant Role of Selenium via GPx1 and GPx4 in LPS-Induced Oxidative Stress in Bovine Endometrial Cells. *Biological Trace Element Research*, 200(3), 1140-1155. <https://doi.org/10.1007/s12011-021-02731-0>
6. Zheng, P., Huang, H., Li, X., Huang, F., **Adeniran, S. O.**, Wang, Z., Feng, R., & Zhang, G. (2021). LRH-A3 and HCG increase pregnancy rate during timed artificial insemination in dairy cows. *Anim Sci J*, 92(1), e13549. <https://doi.org/10.1111/asj.13549>

7. Zheng P, Feng R, Huang F, Hou L, Wang M, **Adeniran SO** and Huang H, 2021. GnRH and hCG improve the function of corpus luteum and uterine receptivity at timed artificial insemination in postpartum dairy cows. *Pak Vet J*. <http://dx.doi.org/10.29261/pakvetj/2021.027>
8. Erinle, K. O., Ogwu, M. C., Evivie Smith E., Zaheer, M. S., Ogunyemi S. O., & **Adeniran S. O.** (2021). Impacts of COVID-19 on agriculture and food security in developing countries: Potential mitigation strategies. *CAB Reviews*, Record Number 20210075615. <https://doi.org/10.1079/PAVSNNR202116016>
9. Wang, X., **Adeniran, S. O.**, Wang, Z., Li, X., Huang, F., Ma, M., Xu, Z., Zheng, P., & Zhang, G. (2020). 3, 3', 5-Triiodo-L-thyronine affects polarity proteins of bovine Sertoli cells via WT1/non-canonical Wnt signaling pathway. *Theriogenology*, 148, 8-17. <https://doi.org/10.1016/j.theriogenology.2020.02.034>
10. Wang, X., Wang, Z., **Adeniran, S. O.**, Huang, F., Ma, M., Zhang, H., Li, X., Zheng, P., & Zhang, G. (2020). Wilms' tumour 1 (WT1) negatively regulates the expression of connexin 43 via a non-canonical Wnt signalling pathway in cultured bovine Sertoli cells. *Reprod Fertil Dev*, 32(5), 522-530. <https://doi.org/10.1071/rd19088>
11. Wang, X., Adegoke, E. O., Ma, M., Huang, F., Zhang, H., **Adeniran, S. O.**, Zheng, P., & Zhang, G. (2019). Influence of Wilms' tumor suppressor gene WT1 on bovine Sertoli cells polarity and tight junctions via non-canonical WNT signaling pathway. *Theriogenology*, 138, 84-93. <https://doi.org/10.1016/j.theriogenology.2019.07.007>
12. Adegoke, E. O., **Adeniran, S. O.**, Zeng, Y., Wang, X., Wang, H., Wang, C., Zhang, H., Zheng, P., & Zhang, G. (2019). Pharmacological inhibition of TLR4/NF- κ B with TLR4-IN-C34 attenuated microcystin-leucine arginine toxicity in bovine Sertoli cells. *J Appl Toxicol*, 39(6), 832-843. <https://doi.org/10.1002/jat.3771>
13. Wang, C., Zheng, P., **Adeniran, S. O.**, Ma, M., Huang, F., Adegoke, E. O., & Zhang, G. (2019). Thyroid hormone (T3) is involved in inhibiting the proliferation of newborn calf Sertoli cells via the PI3K/Akt signaling pathway in vitro. *Theriogenology*, 133, 1-9. <https://doi.org/10.1016/j.theriogenology.2019.04.025>
14. Adegoke, E. O., Xue, W., Machebe, N. S., **Adeniran, S. O.**, Hao, W., Chen, W., Han, Z., Guixue, Z., & Peng, Z. (2018). Sodium Selenite inhibits mitophagy, downregulation and mislocalization of blood-testis barrier proteins of bovine Sertoli cell exposed to microcystin-leucine arginine (MC-LR) via TLR4/NF- κ B and mitochondrial signaling pathways blockage. *Ecotoxicol Environ Saf*, 166, 165-175. <https://doi.org/10.1016/j.ecoenv.2018.09.073>
15. Adegoke, E. O., Wang, C., Machebe, N. S., Wang, X., Wang, H., **Adeniran, S. O.**, Zhang, H., Zheng, P., & Zhang, G. (2018). Microcystin-leucine arginine (MC-LR) induced inflammatory response in bovine Sertoli cell via TLR4/NF- κ B signaling pathway. *Environ Toxicol Pharmacol*, 63, 115-126. <https://doi.org/10.1016/j.etap.2018.09.001>

Referees

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