



Ikechukwu Joseph JAMES is a Registered Animal Scientist and a Professor of Lactation Physiology with Twenty two years cognate experience as an academic who has successfully supervised 104 undergraduate projects, 19 M. Agric. dissertations and 6 Ph.D. Theses. He has published well over 41 journal articles and 16 refereed conference proceedings up till date. He actively participated in training courses Advanced Digital Appreciation Programme-Tertiary organized by Digital Bridge Institute and sponsored by Nigerian Communication Commission, held at the University of Ibadan, Nigeria in 2007, in the use Web 2.0 for National Learning development in Abeokuta, Nigeria in 2010, organized by *Centre Technique de Cooperation Agricole (CTA) et Rurale* ACP-UE, Research4life and TEEAL Programmes for Nigeria, offered under the leadership of the United Nations Food and Agriculture Organization with Cornell University's Albert R. Mann Library (USA) and ITOCA (South Africa) in 2011 and Resource Personnel in Training Workshop on Technical Assistance on Goat Rearing for Livestock farmers in Odeda Local Government Area of Ogun State, Nigeria offered under the leadership of Agricultural Media Resources and Extension Centre (AMREC) of Federal University of Agriculture, Abeokuta, Nigeria on the 10th of February, 2023.

Personal Information:

Name: JAMES Ikechukwu Joseph

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Qualifications: B.Agric., M.Agric. (Animal Reproductive Physiology), Ph.D (Animal Physiology).

Award/Grant won:

- i. 1992, Students' Representative, University Ceremonial Committee
- ii. 1994, Best Graduating Student, College of Animal Science and Livestock Production, University of Agriculture, Abeokuta, Nigeria.
- iii. 2008, Best Academic Staff Award, Department of Animal Physiology, College of Animal Science and Livestock Production, University of Agriculture, Abeokuta, Nigeria
- iv. 2010, ETF Research grant No. UNAAB/IFSERAR/IRG. "Prevalence of sheep and goat mange as affected by coat colour, genotype and associated haematological and biochemical parameters" (Member of Team)
- v. 2010, ETF Research grant. "Non-Surgical embryo transfer in Muturu cattle" (Member of Team)

- vi. 2013, TETFUND Research grant. "Adaptation, multiplication and crossbreeding of Kalahari Red and West African Dwarf goats for enhanced livelihood among farm families (Member of Team)
- vii. 2019, TETFUND Research grant. "Small-Holder Goat Meat and Milk Production: Strategy for Food Security and Poverty Alleviation in Rural Communities of Ogun State, Nigeria". (Principal Investigator).

Research conducted:

- a. Development of Small-Holder Dairy Goat production Systems for South-Western Nigeria
 - i. Evaluation of udder traits of West African Dwarf, Red Sokoto and Sahel goats
 - ii. Determination of factors affecting changes in udder dimensions in West African Dwarf, Red Sokoto and Sahel goats during pregnancy and lactation
 - iii. Establishment of relationship between udder traits during pregnancy and lactation and with milk yields in the three breeds
 - iv. Evaluation of milk production of West African Dwarf, Red Sokoto and Sahel goats
 - v. Development of equations for modeling and predicting udder growth and regression during pregnancy and lactation respectively West African Dwarf, Red Sokoto and Sahel goats
- b. Improvement of milk production in Nigerian goat breeds
 - i. Factors affecting milk yield in West African Dwarf goats
 - ii. Relationship between teat dimensions and milkability of West African Dwarf and Red Sokoto goats
 - iii. Effect of exogenous growth hormone on milk yield, composition and lactation persistency in West African Dwarf goats
 - iv. Effect of exogenous growth hormone on mammary gland histomorphology and involution in West African Dwarf goats
 - v. Effect of exogenous growth hormone on physiological parameters in lactating West African Dwarf goats
 - vi. Evaluation of udder traits, milk yield and composition of Kalahari Red goats
 - vii. Effects of oxytocin administration on milk yield and composition of West African Dwarf goats
 - viii. Effects of milking interval on milk yield and composition of West African Dwarf goats
 - ix. Small-Holder goat meat and milk Production: Strategy for Food Security and Poverty Alleviation in Rural Communities of Ogun State, Nigeria" (TETFUND Research Grant 2013).

Conferences attended:

- i. 14th Annual Conference of Animal Science Association of Nigeria (ASAN), held at the LagokeAkintola, University, Ogbomoso, Nigeria, 14th – 17th September 2009.
- ii. 14th Annual Conference of Animal Science Association of Nigeria (ASAN), held at the LagokeAkintola, University, Ogbomoso, Nigeria, 14th – 17th September 2009.
- iii. 35th Annual Conference of the Nigerian Society for Animal Production (NSAP) held at the University of Ibadan, Ibadan, Oyo State, Nigeria, March 14th – 17th, 2010.

Paper presented:

- i. Effects of bovine somatotropin on changes in udder circumference after cessation of milking in West African Dwarf goats

- ii. Correlation between milk yield and change in udder circumference before and after milking in West African Dwarf goats
- iii. Effects of bovine somatotropin on changes in udder circumference and milk yield of West African Dwarf goats.

Publications:

1. **James, I.J.** and Osinowo, O.A. (2004). Changes in udder size and liveweight of West African Dwarf, Red Sokoto and Sahel goats during lactation and their phenotypic relationship with partial daily milk yield. *Nigerian Journal of Animal Production*, 31(1): 119-129.
2. **James, I.J.** and Osinowo, O.A. (2004). Relationship between udder measurements during pregnancy and partial daily milk yield in goats. *Nigerian Journal of Animal Production*, 31(1): 252-262.
3. **James, I.J.**, Osinowo, O.A. and Ogunisola, H.A. (2006). Estimation of liveweight from chest girth and wither Height measurements in West African Dwarf sheep. *ASSET Series A, An International Journal of Agricultural Sciences, Science, Environment and Technology*, 6(2):83-89.
4. **James, I.J.**, Osinowo, O.A. and Amoo, T.O. (2007). Estimation of liveweight from chest girth and wither Height measurements in West African Dwarf goats. *Nigerian Journal of Animal Production*, 34(2): 181-187.
5. **James, I.J.**, Osinowo, O.A., Ozoje, M.O. and Fanimu, O.A. (2008). Modeling the pattern of udder growth during pregnancy and lactation in three Nigerian goat breeds. *ASSET Series A, An International Journal of Agricultural Sciences, Science, Environment and Technology*, 8(2):169-179.
6. **James, I.J.**, Osinowo, O.A. and Adegbaso, O.I. (2009). Evaluation of udder traits of West African Dwarf (WAD) goats and sheep in Ogun State, Nigeria. *Journal of Agricultural Science and Environment*, 9(1): 75-87.
7. **James, I.J.**, Osinowo, O.A., Smith, O.F., Bemji, M.N. and Rekwot, P.I. (2009). Effects of bovine somatotropin on changes in udder dimensions after cessation of milking in West African Dwarf goats. *Journal of Agricultural Science and Environment*, 9(2): 70-78.
8. **James, I.J.**, Osinowo, O.A., Smith, O.F., Bemji, M.N. and Rekwot, P.I. (2010). Effects of bovine somatotropin on the pattern of milk yield within and between injection intervals in West African Dwarf goats. *Journal of Agricultural Science and Environment*, 10(1): 86-97.
9. **James, I.J.**, Osinowo, O.A., Smith, O.F., Bemji, M.N. and Rekwot, P.I. (2010). Estimation of optimal dose of bovine somatotropin needed for maximum milk yield response in West African Dwarf goats. *Journal of Agricultural Science and Environment*, 10(2): 1-14.
10. Adewumi, O.O., Chineke, C.A., Alokun, J.A. James, I.J. and Akinola, O.A. 2011. The effects of genotype and week of lactation on milk yield, udder dimensions and linear body measurements of non-dairy ewes. *Nigerian Journal of Animal Production*, 38 (2): 9-17.

11. Williams, T.J., Osinowo, O.A., Smith O.F., **James, I.J.**,Ikeobi, C.O.N., Onagbesan, O.M., Shittu, O.O. and Solola, F.T. 2012. Effects of milking frequency on milk yield, dry matter intake and efficiency of feed utilization in West African Dwarf goats. **Archivos de Zootecnia**. 61 (235): 457-465.
12. Williams, T.J., **James, I.J.**, Abdulateef, R.M., Onabegun, L.O., Jinadu, S.O., Falade, Y.O., Solola, F.T., Adewumi, O.O. and Oke, O.E. (2012). Composition and specific gravity of milk of West African Dwarf sheep as affected by stage of lactation and parity. **Nigerian Journal of Animal Production**, 39 (II): 49-56.
13. Bemji, M.N., E.O. Awotunde, O. Olowofeso, **I.J. James**, B.O. Oduguwa, N. Okwelum and O.A. Osinowo. 2014. Maintenance of mtDNA diversity in Kalahari Red goat of South Africa imported to Nigeria. **Animal Genetic Resources**.55:39-46.
14. Williams, T.J., **James, I.J.**, Adekoya, D.A., Abdulateef, M.R., Onabegun, L.O., Jinadu, S.O., Falade, Y.O.,Adewumi, O.O., Abioja, O.O. and Osinowo, O.A. 2014. Milk yield of West African Dwarf sheep as affected by udder stimulation, stage of lactation and parity. **Nigerian Journal of Animal Production**, 41(2): 71-80.
15. Awotunde, E.O., Bemji, M.N., Olowofeso, O., **James, I.J.**, Ajayi, O.O. and Adebambo, A.O. 2015. Mitochondrial DNA sequence analysis and phylogenetic relationships among two Nigerian goat breeds and South African Kalahari Red. **Animal Biotechnology**. 26:180-187.
16. Umejese, S.I., Bemji, M.N., Ozoje, M.O. and **James, .I.J.** 2016. Milk offtake and yield of West African Dwarf and Kalahari Red goats reared in South-West Nigeria. **Nigerian Journal of Genetics**, 30: 101-113.
17. **James, I.J.**, Osinowo, O.A., Smith, O.F., Bemji, M.N., Williams, T.J., Ajayi, O.L., Oluwole, O. and Olaniyi, M.O. 2017. Effects of bovine somatotropin on milk yield, mammary gland weight and histology in West African Dwarf goats. **Archivos de Zootecnia**, 67 (254): 173-179.
18. Nwosu, E.U., **James, I.J.**, Olowofeso, O., Williams, T.J. and Bemji, M.N. 2019. Effects of oxytocin administration on milk yield and milk composition of West African Dwarf does. **Small Ruminant Research**, 181:45-50.
19. Nwosu, E.U., **I.J. James**, Olowofeso, O., Williams, T.J. and Bemji, M.N. 2022. Lactation curve parameters and characteristics of West African Dwarf goats. **Nigerian Journal of Animal Production**, 49 (1): 77-88.
20. Williams, T.J., Yusuf, O.I., **James, I.J.**, Isah, O.A., Okwelum, N., Oke, O.E. and Daramola, J.O. (2022). Potentials of Exogenous Melatonin Administration on Growth and Performance of West African Dwarf Bucks. **Bulletin of the University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Animal Science and Biotechnologies**, 79: 46-55
21. Abioja, M.O., Logunleko, M.O. Majekodunmi, B.C., Adekunle, E.O., Shittu, O.O., Odeyemi, A.J., Nwosu, E.O., Oke, O.E., Iyasere, O.S., Abiona, J.A., Williams, T.J., James, I.J., Smith, .O.F., Daramola, J.O. 2023. Roles of candidate genes in the adaptation of goats to heat stress: A review. **Small Ruminant Research**, 218: 106878.