

DR. TOLULOPE O. ADEBOWALE

Monogastric Animal Nutrition | Google Scholar ID: <https://scholar.google.com.my/citations?hl=en&user>
Federal University of Agriculture, Abeokuta | Agricultural Media Resources and Extension Centre (AMREC)
adebowaleto@funaab.edu.ng | +2348039468685

PROFESSIONAL PROFILE

Monogastric animal nutrition researcher and university extension scholar with expertise in sustainable poultry, pig, rabbit and aquaculture nutrition; agro-industrial by-product valorisation; feed biotechnology; fermentation; feed additives and enzymes; gut health; intestinal physiology; oxidative stress; nutrient digestibility; and climate-smart livestock systems. PhD-trained at the University of Chinese Academy of Sciences, with international research experience in China and Turkey. Principal Investigator/Co-Investigator on competitive research grants and experienced in undergraduate/postgraduate teaching, supervision, scientific publishing, community extension and research translation.

RESEARCH FOCUS & EXPERTISE

- Sustainable monogastric nutrition and alternative feed resources
- Valorisation of cassava peel, rice bran and other agro-industrial by-products
- Feed biotechnology, fermentation, enzymes and prebiotic/feed additive development
- Gut health, intestinal morphology/function, microbiome and oxidative stress
- Poultry, pig, rabbit and fish nutrition; feed formulation and evaluation
- Nutrient digestibility, feed efficiency, carcass/meat quality and animal welfare
- Circular bioeconomy, climate-smart livestock systems and predictive/AI-supported feed optimisation
- Experimental design, statistical analysis, research management and extension-led technology transfer

EDUCATION

- PhD, Monogastric Animal Nutrition — University of Chinese Academy of Sciences, Beijing, China, 2019
- M.Agric., Monogastric Animal Nutrition — Federal University of Agriculture, Abeokuta, Nigeria, 2014
- B.Agric., Animal Nutrition — Federal University of Agriculture, Abeokuta, Nigeria, 2010

ACADEMIC APPOINTMENTS

- Senior Extension Fellow, Federal University of Agriculture, Abeokuta — 2021–Present
- Extension Fellow, Federal University of Agriculture, Abeokuta — 2019–2021
- Lecturer / Assistant Lecturer, Crescent University, Abeokuta — 2013–2019

COMPETITIVE GRANTS, FELLOWSHIPS & RECOGNITION

- TETFund Institution-Based Research Grant — Principal Investigator, 2025
- TWAS–UNESCO Associateship Scheme — Visiting Researcher, Izmir Institute of Technology, Türkiye, 2024
- International Foundation for Science (IFS) Basic Research Grant — Principal Investigator, 2022
- TETFund Institution-Based Research Grants — PI/Co-Investigator, 2022–2023
- TWAS–UNESCO Associateship Scheme — Visiting Researcher, Türkiye, 2021
- CAS–TWAS Presidential Fellowship — PhD Fellowship, China, 2016–2019
- World Bank Sustainable Agriculture Fellowship (CEADESE) — 2015
- Best Graduating Student, Department of Animal Nutrition — 2010
- University commendation for winning the IFS Basic Research Grant — 2023

SELECTED RESEARCH PROJECTS

- Valorisation of rice by-products for functional applications, including enzyme and prebiotic production, using poultry and rabbit models.
- Safety assurance, fortification and nutritional evaluation of processed cassava peel meal as an alternative feed resource.
- Bio-processing methods for sustainable dietary interventions in poultry, rabbit and fish nutrition.
- Alternative feed materials and circular approaches for improved food production and environmental sustainability.

TEACHING & SUPERVISION

Teaching: Principles of Animal Nutrition, Monogastric Animal Nutrition, Poultry Nutrition, Swine Nutrition, Rabbit Nutrition, Organic Animal Nutrition, Feed Quality Control, Vitamins and Minerals, Nutritional Biochemistry and related courses.

Supervision: Undergraduate project supervision and postgraduate co-/major supervision in poultry, pig nutrition, feed processing and sustainable animal production. Current/selected postgraduate topics include processed cassava peel meal, phytogetic additives and carbon footprint in broilers.

SELECTED PUBLICATIONS

- Adebawale, T.O., Arowolo, M.A., Adekola, M., Adeleye, T. & Oke, O.E. (2025). Effect of methionine and lysine supplementation on performance and intestinal morphometrics of finisher broiler chickens fed diets containing processed cassava peel meal. *Animal Production Science*, 65, AN25047.
- Adebawale, T., Qian, J. & Yao, K. (2024). Dietary fat and high energy density diet: Influence on intestinal health, oxidative stress and performance of weaned piglets. *Journal of Animal Physiology and Animal Nutrition*, 108, 978–986.
- Adebawale, T., Oso, A. & Bamgbose, A. (2024). Carcass trait, meat lipid profile and meat quality of broiler chickens fed diets containing high inclusion level of high quality cassava (*Manihot esculenta*) peel meal. *Journal of Agriculture and Rural Development in the Tropics and Subtropics*, 125, 149–157.
- Aderanti, I., Adeleye, O., Adebawale, T. & Oke, O.E. (2023). The role of phytogetic feed additive in stress mitigation in broiler chickens. *Journal of Animal Physiology and Animal Nutrition*, 108, 81–98.
- Adebawale, T.O., Kang, Y. & Oso, A. (2019). Major cereal carbohydrates in relation to intestinal health of monogastric animals. *Animal Nutrition*, 5(4), 331–339.
- Adebawale, T.O., Kang, Y. & Jin, S. (2019). The effect of dietary high energy density and carbohydrate energy ratio on digestive enzymes activity, nutrient digestibility, amino acid utilization and intestinal morphology of weaned piglets. *Journal of Animal Physiology and Animal Nutrition*, 103(5), 1492–1502.
- Adebawale, T.O., Oso, A.O., Olowofeso, O., Idowu, O.O. & Fafiolu, A.O. (2014). Growth response, hematological indices and serum lipid profile of turkeys fed diets supplemented with yeast and niacin. *Pacific Journal of Science and Technology*, 15(1), 277–287.

INVITED & CONFERENCE CONTRIBUTIONS

- Keynote Speaker, International Postgraduate Seminar on Agriculture and Forestry (I-PSAF 2025), Universiti Putra Malaysia: “Tech-Driven Sustainability: Rethinking Animal Nutrition for a Greener World.”
- Conference presentations at ASAN 2025, NSAP 2024 and international agricultural/life science meetings in Türkiye and the United States.

EXTENSION, LEADERSHIP & SERVICE

- Facilitated and trained 1,800+ Farm Practical Year (FPY) students on transformation of cassava peel into high-quality cassava peel meal (2025).
- Trained farmers and processors on cassava peel transformation and livestock/aquaculture feed applications; community reach includes 2023–2026 programmes across Ogun State.
- Field Officer for 200+ female farmers in the FUNAAB-WISE/IDH/Mastercard cassava production and processing programme (2026).
- Programme Coordinator, Extension and Adaptive Research, AMREC (2021–2023); AMREC representative on College Board and Promotion Committee.
- Reviewer for Animal, Animal Production Science, Journal of Animal Physiology and Animal Nutrition, Animal Bioscience and International Journal of Food Science and Technology.

PROFESSIONAL MEMBERSHIPS

- American Society of Animal Science
- Nigerian Society for Animal Production
- Animal Science Association of Nigeria (Registered Animal Scientist)