Professor Akinlabi Oladele Ogunleye, DVM, MSc, PhD, FCVSN

Professor of Veterinary Microbiology, University of Ibadan, Nigeria

Email Address: peculiarj@yahoo.com ao.ogunleye@mail.ui.edu.ng

A. PERSONAL STATEMENT

Professor Akinlabi Oladele Ogunleye is a Professor of Veterinary Microbiology with more than two decades of experience in antimicrobial resistance (AMR), veterinary public health, zoonotic bacterial diseases, molecular epidemiology, pathogen genomics, laboratory strengthening, antimicrobial stewardship and One Health research. His work focuses on understanding the emergence, transmission, surveillance and control of antimicrobial-resistant pathogens at the animal-human-environment interface.

He currently serves as Co-Investigator in the ADAPT One Health Network (2023–2028) and as the Nigerian Focal Person for the NiCaDe II AMR Capacity Development Programme sub-project on sheep blood production from indigenous disease-resistant West African Dwarf Sheep for quality blood agar production in Nigeria. His research integrates microbiology, genomics, surveillance, implementation science and policy translation to strengthen AMR control systems in Africa.

B. POSITIONS, LEADERSHIP AND PROFESSIONAL APPOINTMENTS

- Head, Department of Veterinary Microbiology (2026 - date)
- Professor of Veterinary Microbiology (2018–date)
- Reader/Associate Professor (2013–2018)
- Senior Lecturer (2010–2013)
- Lecturer I/II (2005–2010)
- Acting Head, Department of Veterinary Microbiology (2020–2022)
- Postgraduate Coordinator (2017–2020)
- Sub-Dean (Postgraduate), Faculty of Veterinary Medicine (2013–2015)
- Assistant Hall Warden – Independence Hall, University of Ibadan (2015 - 2019)
- Member, University Senate (2016-2018; 2018 - date)
- Member, Senate senior staff disciplinary committee – Panel "D" (2017 - 2023)
- Member, UIRESDEV Research Fair Committee (2024 - 2026)
- Convener, Fundraising and Liaison Subcommittee, UIRESDEV Research Fair Committee: Gown-to-Town Initiative (2025 - 2026)
- Fulbright Fellow (2010 - 2011)
- Fellow, College of Veterinary Surgeons of Nigeria (FCVSN) (2017 - date)
- Ibadan Centre Supervisor for Pathology Speciality of the College of Veterinary Surgeons of Nigeria (2023 - date)

C. CONTRIBUTIONS TO SCIENCE

1. Salmonella Pathogenesis and Poultry Health

Representative publications:

Ogunleye, A.O., Ajuwape, A.T.P., Adetosoye, A.I. and Carlson, S.A. (2013). Characterization of *Salmonella enterica* Ituri isolated from diseased poultry in Nigeria. *African Journal of Biotechnology* Vol. 12. No. 16: 2125-2128.

Ogunleye, A.O., Ajuwape, A.T.P**.,** Alaka, O.O. and Adetosoye, A.I. (2013). Immunogenicity and Pathology of formalin-Killed- SEPA *Salmonella enterica* Paratyphi A antigen in Poultry. *Bulletin of Animal Health and Production in Africa* Vol. 61. No.1: 17-24.

Jemilehin, F.O., **Ogunleye, A.O.,** Okunlade, A.O., and Ajuwape, A.T.P. (2025).Virulence profiling of multi-drug-resistant *Salmonella* serovars isolated from commercial layers in southwestern Nigeria. *Animal Research International*, Vol. 22(2). No 6331-6336.

2. Molecular Epidemiology and Mechanisms of AMR

Representative publications:

Ogunleye, A.O. and Carlson, S.A. (2011). Survey of 3rd generation cephalosporin genes in multi-resistant *Salmonella* serotypes from septic poultry and an asymptomatic healthy pig from Nigeria. *African Journal of Microbiology Research* Vol. 5. No. 15: 2139-2144.

Ogunleye, A.O and Carlson S.A. (2012). Emergence of an SGI1-bearing *Salmonella enterica* serotype Kentucky isolated from septic poultry in Nigeria. *Journal of Infection in Developing Countries* Vol. 6. No. 6: 483-488.

Ogunleye A.O., Ajuwape, A.T.P., Carlson, S.A. (2016). Emergence of New Delhi metalo-beta- lactamase (NDM-1) producing multi-drug resistant Gram-negative bacteria from poultry in Nigeria. *Bulletin of Animal Health and Production in Africa.* Vol. 64. No. 1: 139-148.

Jemilehin, F.O., **Ogunleye, A.O.** and Ajuwape, A.T.P. (2024). Plasmid-Mediated Quinolone Resistance (PMQR) determinants in multi-drug-resistant, non-ESBLproducing, non-typhoidal *Salmonella* species isolated from commercial laying chickens. *International Journal of Environmental Studies*, Vol. 81(4). No. 1823-1835.

3. One Health Transmission Dynamics

Representative publications:

Ogunleye, A.O., Okunlade, A.O., Jemilehin, F.O. and Ajuwape, A.T.P. (2013). Antibiotic resistance in *Escherichia coli* isolated from healthy cattle at a major cattle market in Ibadan, Oyo State, South Western, Nigeria. *African Journal of Microbiology Research.*Vol. 7. No. 37: 4572-4575.

Ogunleye, A.O. and Carlson, S.A. (2016). Drug resistant *Proteus mirabilis* and *Proteus vulgaris* isolated from rats captured from some poultry houses in Ibadan, Oyo State, Nigeria and their public health importance. *African Journal of Biomedical Research.*Vol. 19. No.1: 81-89.

Ogunleye, A.O. and Carlson, S.A. (2017). Characterization of a multi-drug resistant *Salmonella enterica* Give isolated from a lizard captured in a poultry house in Nigeria. *African Journal of Biomedical Research* Vol.20. No. 1:53-58.

Jemilehin, F. O., Adetoyan, E. J., Okunlade, A.O., Abiodun-Ojo., O. I. Adedayo, I. O., Harry, T. C., Azuh, V. O. and **Ogunleye, A. O.** (2026). Detection and virulent profiles of multidrug-resistant Shiga toxin-producing *Escherichia coli* (STEC) from horses in Nigeria. One Health Microbiol. Infect. Vol. 2, No. 1:16-21. https://doi.org/10.66585/ohmi.2026.0012.

4. Genomic Surveillance and Emerging Technologies

Representative publication:

Ogunleye, A.O., Ghosh, P., Gueye, A.B., Jemilehin, F.O., Okunlade, A.O., Ogunleye, V.O., Kobialka, R.M., Rausch, F., Tanneberger, F., Ajuwape, A.T.P., Sow, O., Ademowo, O. G, Binsker, U., Abd El Wahed, A., Truyen, U., Dieye, Y. and Fall, C. (2025). Nanopore Sequencing-Driven Mapping of Antimicrobial Resistance Genes in Selected *Escherichia coli* Isolates from Pigs and Poultry Layers in Nigeria. *Antibiotics*, Vol. 14(8). No. 827-845.

5. Laboratory Strengthening, Diagnostic Stewardship and Capacity Development

Leadership of laboratory-strengthening initiatives, AMR preparedness programmes, and the West African Dwarf sheep blood agar production initiative supporting antimicrobial stewardship and quality diagnostics.

D. MAJOR RESEARCH PROGRAMMES AND GRANTS

- ADAPT One Health Network (BMBF/RHISSA), Co-Investigator and Animal Health Sector Representative, Nigeria, a project spanning seven sub-Saharan African countries (Nigeria, Ghana, Senegal, Democratic Republic of Congo, Uganda, Ethiopia and Sudan) and two German Institutions (Institute for Animal Hygiene and Veterinary Public Health, Leipzig University; and German Federal Institute for Risk Assessment)(December 2023–November 2028).
- One Health Study of the Co-infection of ESBL- and Carbapenemase-producing *Escherichia coli* and *Salmonella* with Helminths in cattle, pigs, chickens and vegetables in Ibadan, Nigeria. Co-Investigator under the ADAPT programme.
- NiCaDe II – Capacity Development for Preparedness and Response to Infectious Diseases (AMR). Nigerian Focal Person for the sheep blood production initiative in collaboration with the Nigeria Centre for Disease Control and Prevention (NCDC) and the Robert Koch Institute (RKI), funded through Germany's Global Health Protection Programme.
- Sheep Blood Production from Indigenous Disease-Resistant West African Dwarf Sheep for Quality Blood Agar Production: A Novel Initiative Toward Antimicrobial Stewardship.
- Implementation of an Integrated Antimicrobial Resistance Surveillance Across Human, Animal, and Environmental Health Sectors in Nigeria. Fleming Fund Phase II Nigeria Country Grant administered by Management Sciences for Health (MSH), September–December 2025. Consultant Animal Health Lead for Oyo State: covering Oyo, Enugu and the Federal Capital Territory.

E. TEACHING, MENTORING AND CAPACITY DEVELOPMENT

Teaching responsibilities include Veterinary Microbiology, Veterinary Bacteriology, Immunology, Microbial Genetics, Microbial Chemistry and Mycology.

Graduate supervision:

- 3 completed PhD Thesis
- 1 ongoing PhD Thesis
- 8 completed MSc dissertations
- 10 DVM projects

Professor Ogunleye has contributed extensively to capacity development of veterinary and One Health professionals through teaching, research mentorship, laboratory training and international collaborative programmes.

F. RESEARCH IMPACT AND CAREER HIGHLIGHTS

Research metrics: 423 citations, h-index 10, i10-index 13.

Career highlights include:

- First characterization of *Salmonella* Paratyphi A as a poultry pathogen in Nigeria.
- Identification of SGI1-bearing *Salmonella* Kentucky associated with poultry disease.
- Documentation of NDM-1-producing multidrug-resistant Gram-negative bacteria from poultry.
- One Health AMR studies involving poultry, cattle, pigs, rodents, reptiles and wildlife.
- Leadership in nanopore sequencing-based AMR surveillance.
- Development of innovative sheep blood agar production systems for improved diagnostic microbiology.
- Leadership and participation in major African-European One Health collaborations.

Professor Ogunleye's work bridges research, surveillance, implementation and policy.