



CONTROLLING ANTIMICROBIAL RESISTANCE (AMR) IN AQUACULTURE – A ONE HEALTH IMPERATIVE

The Aquatic Animal Health, Welfare and
Ecosystem Health Session

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WORLD AQUACULTURE 2026
with Aquaculture Africa 2026 (AFRAQ26)
1—4 December, 2026
Dar es Salaam, Tanzania

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Antimicrobial resistance (AMR) affects not just fish health but also the health of our aquatic ecosystems, blue food systems, and communities. This emerging threat to the sustainability of aquaculture compels us to innovate and transition from reactive treatments to proactive, resilient aquatic farming. This dedicated session is your platform to share experiences that showcase the science, policies, and practical solutions that will define the next decade of One Health in aquaculture elaborated by the following sub-themes.

Main Conference Plenary

1. Unlocking policy and regulation to harness the potential of One Health for the resilience and control of AMR in aquaculture
2. Aquatic Animal Welfare: The foundation for disease prevention and mitigation against antimicrobial use (AMU) and AMR
3. Biosecurity Control: The robust preventative measures against the introduction and spread of pathogens (disease causing agents)
4. Understanding Diseases: Understanding pathogens, the bedrock of antimicrobial resistance control and shift from reactive AMU to targeted prevention.
5. Clinical and Laboratory Diagnostics: Generating the evidence needed to shift from blanket AMU to targeted therapies, detect AMR, protect and enhance economic viability of aquaculture food systems
6. Immunology, Vaccinology and Vaccines: Proactively reducing the disease burden in aquaculture
7. Veterinary Therapeutics: Science, policy and practice in aquaculture
8. Epidemiology and Economics: Collaborative data and economic tools for on-farm and transboundary aquatic animal disease and aquaculture AMR control
9. Safeguarding the Human-Aquatic Nexus and Securing Aquaculture Supply Chains: Operationalizing occupational safety, zoonosis control, and food Security through safe aquaculture products
10. Aligning environmental management and industry for aquaculture water quality management and integrated water quality monitoring
11. Data to Action: Networking and communicating aquaculture AMU and AMR Surveillance from Farm to Fork under the One Health paradigm.
12. Innovative alternatives to AMU: Lessons learnt from the development and production of specific pathogen-free fry, disease resistant commercial fish strains and novel alternative antimicrobial products in aquaculture - their feasibility, viability, productivity and impacts for AMU
13. Aquatic Veterinary Education and Service Delivery: Mainstreaming One Health in aquatic veterinary training, policy, practice and service delivery for resilient aquaculture
14. The status of biosecurity control and phytosanitary standards in aquatic plants commercially farmed for food and other uses



Round table discussions

1. Improving access to aquatic animal vaccines for small to medium scale aquaculture enterprises in developing countries
2. The One Health Plenary Room: The cost of inaction, operationalizing One Health institutional frameworks, public-private partnership business models and networking for the control of aquaculture AMR

Practical knowledge sharing side events

- a. Farmers session: Demystifying One Health: How AMR Stewardship protects farm production and profits. The importance of water source and water quality parameters in the control of AMU and AMR
- b. Aquaculture extension and para-professionals: Practical tools to translate aquaculture AMR science and policy into practical solutions to safeguard aquatic animal health and welfare, prevent AMR and enhance farm productivity
- c. Veterinary Students: Subjective and objective clinical and laboratory diagnosis, case management and problem-oriented reasoning

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