

BACKGROUND

Tropical regions are home to extraordinary biological wealth that supports food systems, animal and human health, livelihoods, and environmental sustainability. However, increasing pressures from climate change, emerging diseases, biodiversity loss, environmental degradation, and the growing demand for safe and nutritious food have created urgent challenges for the sustainable management of tropical bioresources. In many developing countries, including Indonesia, these challenges require integrated responses that connect scientific advancement, technological innovation, and sustainability-oriented practices. The utilization of tropical bioresources can no longer rely solely on conventional approaches; it requires stronger interdisciplinary collaboration among researchers, practitioners, industry, and policymakers to generate solutions that are adaptive, inclusive, and responsive to global needs.

In this context, The 3rd International Seminar on Tropical Bioresources Advancement and Technology (ISOTOBAT 2026) serves as a strategic international platform to bring together academics, researchers, professionals, industry representatives, and government institutions in discussing current issues and future directions in tropical bioresource development. The seminar plays an important role in strengthening the connection between scientific research, technological application, and policy dialogue, particularly in advancing the One Health perspective that recognizes the interdependence of human, animal, and environmental health. Through this platform, ISOTOBAT 2026 is expected to foster knowledge exchange, collaborative innovation, and stronger academic and professional networks across countries and disciplines.



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Carrying the theme “Tropical Bioresources for One Health: Integrating Biotechnology, Digital Tools, and Sustainability,” ISOTOBAT 2026 emphasizes the importance of combining biotechnology, digital innovation, and sustainable approaches in unlocking the potential of tropical bioresources. The seminar highlights that future solutions in areas such as food and nutrition, animal production and reproduction, biodiversity conservation, biomaterials, and environmental health must be developed through integrative and collaborative pathways. By promoting the convergence of science, technology, and sustainability, ISOTOBAT 2026 seeks to contribute to the development of resilient tropical bioresource systems that support healthier ecosystems, stronger communities, and a more sustainable future.

