

Preface

The 2nd International Seminar on Tropical Bioresources Advancement and Technology (ISOTOBAT 2025) is a groundbreaking event that explores emerging science, innovation, and technology to drive future advancements in tropical bioresources. Organized by the Directorate of Strategic Studies and Academic Reputation, IPB University, in partnership with the Institute of Tropical Agriculture and Food Security (ITAFoS), Universiti Putra Malaysia, this premier event is dedicated to advancing knowledge and understanding of tropical bioresources across various sectors, including agriculture, forestry, marine, and animal sciences.

Designed as a multidisciplinary platform, ISOTOBAT 2025 brings together experts, researchers, students, and enthusiasts to share insights and foster collaborations toward a sustainable and healthier future. The seminar emphasizes promoting sustainable innovation for the management of tropical bioresources in the digital era, exploring new strategies and technologies to enhance resource efficiency, environmental conservation, and economic development.

With the theme "*Sustainable Innovation for Tropical Bioresources Management in the Digital Era*", the seminar will cover four critical sub-themes, each addressing different facets of tropical bioresources: Science and Technology Innovation, Socio-economics and Business Transformation, Innovative Technologies in Bioresource Science and Engineering, and Bioresources in Natural Food and Nutrition. This event offers a unique opportunity to engage with the latest trends and innovations that contribute to sustainable development and improved quality of life.

As a collaborative platform, ISOTOBAT 2025 not only highlights scientific advancements but also fosters strategic partnerships between academia, industry, government, and communities. Through meaningful discussions, knowledge exchange, and networking opportunities, the seminar aims to inspire actionable solutions and innovative approaches that can address global challenges in managing tropical bioresources, paving the way for resilient and sustainable ecosystems in the digital age.

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