



J SAIR

**JOURNAL OF
SUSTAINABLE
APPLIED
INNOVATION
& RESEARCH**

Editorial

It is with great satisfaction that we present the inaugural issue of the *Journal of Sustainable Applied Innovation & Research (J-SAIR)*, an international scientific publication promoted by the International Network Innovation & Sustainable Development, whose mission is to foster the dissemination of high-quality research that contributes to sustainable development, technological innovation, environmental stewardship, and socio-economic transformation. In a context characterized by global challenges related to climate change, food security, resource efficiency, industrial competitiveness, and social inclusion, this journal emerges as an interdisciplinary platform for the exchange of scientific knowledge and practical solutions aimed at building more sustainable and resilient societies.

The articles included in this first issue reflect the diversity and scope of the journal's thematic areas, while simultaneously demonstrating the growing role of applied research in addressing contemporary sustainability challenges. The contributions gathered herein reveal how innovation can generate value from biological resources, improve agricultural productivity, support environmental conservation, strengthen enterprises, and promote more sustainable production systems.

Within Thematic Area 1: Sustainable Production, Bioeconomy, and Industrial Transformation, several studies examine innovative alternatives for enhancing the sustainability of agricultural and agro-industrial systems. Research on the biological production of glucose syrup from banana peel explores the valorization of agroindustrial by-products through biotechnological processes, contributing to the principles of the circular bioeconomy. Complementarily, studies addressing sesame agronomic management and irrigation strategies for chrysanthemum production highlight the importance of improving resource-use efficiency and agricultural productivity under diverse environmental conditions. Likewise, the investigation on the circular valorization of *Musa* spp. pseudostem demonstrates the potential of agricultural residues as functional feed ingredients, reinforcing the transition toward circular production models and waste minimization.

Thematic Area 2: Environment, Natural Resources, and Climate Resilience is represented by a contribution documenting the first record of *Hadronotus obesum* parasitizing eggs of *Euschistus heros* in soybean crops in Brazil. Beyond its taxonomic relevance, this work enriches the knowledge of biodiversity and biological control agents associated with agroecosystems, providing valuable information for sustainable pest management strategies and the strengthening of ecosystem-based approaches to agricultural production.

In Thematic Area 3: Applied Innovation, Social Technologies, and Sustainable Development Models, the study focused on the administrative evaluation of the José Ramón Martínez tannery highlights the importance of organizational assessment and management practices in promoting competitiveness, efficiency, and sustainability within productive sectors. Sustainable development requires not only technological innovation but also institutional and managerial capacities capable of guiding organizations through increasingly complex environmental and social challenges.

Collectively, the contributions included in this issue illustrate the interconnected nature of sustainability and innovation. The transition toward more sustainable societies cannot be achieved through isolated disciplinary efforts; rather, it requires collaboration among researchers, industry, governments, civil society, and international networks committed to knowledge generation and transfer. In this regard, J-SAIR seeks to serve as a bridge between science and practice, facilitating dialogue among diverse stakeholders and promoting the dissemination of evidence-based solutions.

As Editor-in-Chief, I would like to express my sincere gratitude to the authors who entrusted this new journal with the publication of their work, to the reviewers whose expertise and dedication ensured the scientific quality of the manuscripts, and to the members of the Editorial and Scientific Committees for their commitment during the creation of this project. Their collective efforts have made possible the publication of this first issue and laid the foundations for a journal that aspires to become a recognized reference in the fields of sustainability, applied innovation, and sustainable development.

We invite researchers, professionals, policymakers, entrepreneurs, and students from around the world to join this scientific initiative through the submission of innovative research, critical reflections, and interdisciplinary studies that contribute to advancing sustainable solutions for present and future generations.

Dr. C. Deivis Suárez Rivero

Editor-in-Chief

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