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SESB - Systems Ethnopharmacology and Sustainable Bioresources

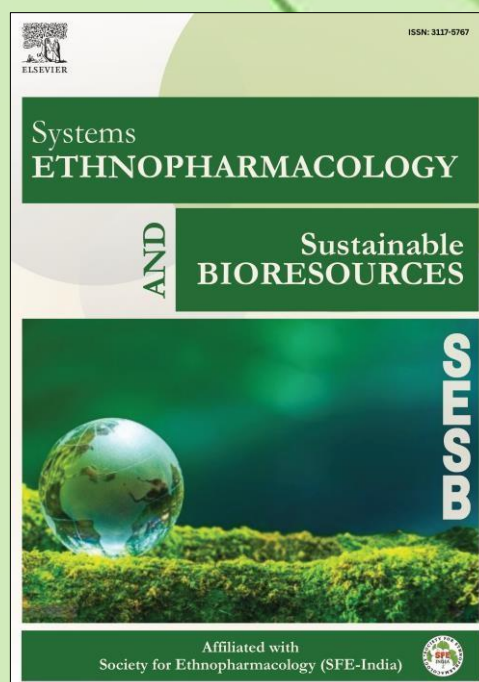
Bridging Ancient Wisdom & Modern Science

An international, peer-reviewed journal affiliated with the Society for Ethnopharmacology (SFE-India)



SESB is a first-of-its-kind international Journal dedicated to holistic, evidence-based and sustainability aligned research - The New Home for Integrative Research.

Systems Ethnopharmacology and Sustainable Bioresources (SESB) is an interdisciplinary, peer-reviewed journal dedicated to advancing research at the intersection of ethnopharmacology, ecological stewardship, sustainability science, and modern pharmacology through a systems-thinking lens. The journal promotes a holistic understanding of how medicinal plants, natural products, traditional knowledge systems, and traditional practices operate within dynamic biological, ecological, socio-economic, and cultural contexts that shape human and planetary health. SESB aligns with global sustainability priorities, including the United Nations Sustainable Development Goals (SDGs), and encourages rigorous, ethical, and community-centered research that strengthens both scientific credibility and ecological responsibility.



www.sciencedirect.com/journal/systems-ethnopharmacology-and-sustainable-bioresources

Find out more:



Aims & Scope

The journal welcomes original research, reviews, community-engaged studies, policy analyses, and letters to the editor that:

- Integrate methodologies and perspectives from the biological, chemical, ecological, computational, and social sciences with traditional and Indigenous knowledge systems to address challenges in ethnopharmacology, sustainable healthcare, biodiversity conservation, and culturally relevant innovation.
- Explore sustainable sourcing, conservation strategies, ecosystem restoration, climate resilience, and One Health approaches linking human, animal, and environmental Health, emphasising Indigenous-led research, equitable community participation, protection of cultural practices, and fair and transparent benefit-sharing.
- Advance natural product discovery, characterisation, and validation using modern analytical sciences, including metabolomics, proteomics, bioactivity-guided fractionation, cheminformatics, network pharmacology, and systems biology, deepening mechanistic understanding, supporting reproducibility, and connecting oral traditional knowledge, complementary and alternative medicines, and ethnic knowledges with contemporary scientific evidence.
- Apply artificial intelligence (AI), machine learning (ML), deep learning, data mining, predictive modelling, knowledge graphs, and other data-driven approaches to enhance natural product discovery, decipher complex biological and cultural datasets, infer mechanisms of action, assess safety, improve traceability, and support informed decision-making in sustainable bioresource management.
- Develop and evaluate transparent, responsible, and innovative value chains for medicinal plants and bioresources, including blockchain-enabled traceability, circular and regenerative production systems, sustainable harvesting frameworks, and quality-assurance mechanisms strengthening authenticity, safety, and environmental accountability.
- Contribute to emerging domains such as the bioeconomy; nutrieconomy to promote food-as-medicine; blue bioresources and blue bioeconomy; microbial resources; and climate-adaptive biological systems supporting nutrition security, community livelihoods, ecological resilience, and sustainable development.
- Address global policy frameworks and ethical commitments, including the Nagoya Protocol on Access and Benefit-Sharing (ABS), the Convention on Biological Diversity (CBD), the CARE Principles for Indigenous Data Governance, data sovereignty, United Nations Sustainable Development Goals (SDGs), and protection of Indigenous intellectual and cultural heritage.
- Foster interdisciplinary dialogue among researchers, academicians, Indigenous communities, traditional healers, conservation practitioners, healthcare professionals, policymakers, NGOs, pharmaceutical and wellness industries, and allied sectors working toward responsible, inclusive, and sustainability-driven innovation.

SESB encourages submissions that bridge science, culture, ecology, technology, and policy with strong methodological rigour, ethical research practices, global sustainability, and meaningful engagement with traditional knowledge holders and local communities

Thematic Highlights

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Ethnopharmacology and Traditional Medicine Systems

Sustainable Bioresource Management and Conservation

Community Knowledge, Engagement, Equity and Benefit-Sharing

Systems Thinking and Socio-Ecological Resilience

Natural Product Discovery, Validation and Mechanistic

Bioactive Compounds and Phytochemistry

Formulation, Standardisation, Quality, Safety and Regulatory Science

Digital, AI and Data-Driven Ethnopharmacology

Biotechnology, Biomanufacturing and Sustainable Bioresources

Marine and Microbial Resources

Ethnoveterinary Medicine and One Health Interfaces

Food, Nutrition, Nutrieconomy and Preventive Health

Policy, Ethics, Governance and Circular Bioeconomy

Climate Change, Adaptation and Resilient Bioresource Development

Anthropology, Social Science and Knowledge Transmission

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SESB welcomes papers on the following topics:

- Ethnopharmacology and Traditional Medicine Systems
- Sustainable Bioresource Management and Conservation
- Community Knowledge, Engagement, Equity and Benefit-Sharing
- Systems Thinking and Socio-Ecological Resilience
- Natural Product Discovery, Validation and Mechanistic Studies
- Bioactive Compounds and Phytochemistry
- Formulation, Standardization, Quality, Safety and Regulatory Science
- Digital, AI and Data-Driven Ethnopharmacology
- Biotechnology, Biomanufacturing and Sustainable Bioresources
- Marine and Microbial Resources
- Ethnoveterinary Medicine and One Health Interfaces
- Food, Nutrition, Nutrieconomy and Preventive Health
- Policy, Ethics, Governance and Circular Bioeconomy
- Climate Change, Adaptation and Resilient Bioresource Development
- Anthropology, Social Science and Knowledge Transmission

Editorial Leadership: Curated by Experts, Trusted by Science

Spanning from different countries and regions, the editorial board, led by Editor-in-Chief Prof. Pulok Kumar Mukherjee ensure that every article published meets the highest international standards of rigour while remaining sensitive to local cultural contexts.

Editor-in-Chief:



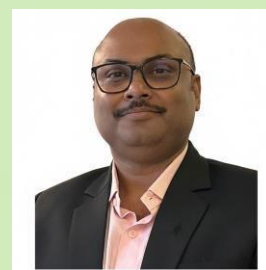
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“Together, let us shape the future of ethnopharmacology and sustainable natural product research”

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**Submit your
manuscript**

