

Shaping the Future of Plant Science and Environmental Research

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<https://doi.org/xx.xxxx/xxxx>

We are pleased to announce the launch of a new journal entitled *Advances in Plant Science and Environment*. We are delighted to invite researchers, academics, and practitioners from around the world to engage with the journal and explore the first volume of top-notch and impactful articles. Many more contributions will follow in subsequent issues, published under the guidance of the distinguished Advisory and Editorial Board.

The Rationale Behind Launching This Journal

The field of plant science and environmental research is undergoing a major shift due to the fast changes in the science of molecular biology, biotechnology, data science, and sustainability-riding approaches. Previously, plant science and environmental studies were often regarded as separate or practical subjects. However, advances in molecular technologies, system biology, and analysis on the ecosystem level have created a new multidisciplinary research space that requires both specialized and inclusive academic platforms.

The use of technologies, including next-generation and long-read sequencing, single-cell and spatial omics, advanced mass spectrometry, genome editing, and high-throughput phenotyping, has advanced the research of plant biology, crop improvement, and environmental resilience by massively accelerating research tasks. These technologies have facilitated the production of large-scale genomic, transcriptomic, proteomic, and metabolomic datasets across a wide range of plant species and ecosystems, providing insights into plant function, adaptation, and environmental interaction. Simultaneously, new methods, including precision agriculture, artificial intelligence, and big data analytics, are changing the conduct and implementation of plant and environmental research.

This has led to an exponential increase in both the quantity and quality of the research output that emanates at the interface of plant science and environmental sustainability. Although several journals address the multiple aspects of plant biology or environmental research, there is still an evident necessity for a high-quality and comprehensive platform that will connect the field of molecular plant science, ecological knowledge, and environmental management. Numerous influential studies can hardly find the right platforms that would acknowledge not only the mechanistic understanding but also their applicability to the environmental issues related to sustainability and globalization.

Scope of Scholarly Contributions

The scope of *Advances in Plant Science and Environment* is broad and covers interdisciplinary research areas including plant physiology and biochemistry, cell biology, molecular biology, epigenetics, multi-omics, climate change, ecosystem resilience, environmental sustainability, and emerging technologies. Further, the journal publishes original research spanning from “model plants to crops”, including letters, reviews, opinions, spotlight and perspective articles to unveil fundamental mechanisms and principles to enable the translation of knowledge for genetic improvement, address crop resilience and global food security under changing climate conditions.

Editorial Leadership and Governance

The journal, *Advances in Plant Science and Environment*, is managed by a diverse editorial board. The journal is guided by an eminent Advisory Board composed of leading scholars from around the world and is edited by a distinguished international Editorial Board of outstanding researchers. The board is expected to continue to expand and remain actively engaged in shaping the journal’s directions. Our board members are committed to assisting you in publishing your excellent manuscripts in *Advances in Plant Science and Environment*. It is our earnest hope that you will contribute to making the journal a success by submitting your original research, opinions, perspectives, letters, spotlights, and review articles. We look forward to engaging the eminent scholars from around the globe who will contribute by playing their key role in maintaining a high standard through a transparent and rigorous peer review process.

Benefits of Publishing with *Advances in Plant Science and Environment*

Besides the above reasons, *Advances in Plant Science and Environment* operates under a fully *Open Access (OA)* journal, and the article processing charges are waived until it is announced or updated on the journal website later.

All the articles are freely and instantly made available to the readers all over the world in cooperation with BGA Press. Furthermore, no publication fees are charged within the first three years. As *Advances in Plant Science and Environment* is entering its inaugural phase, we are pleased to invite you as an author, reviewer, or reader.

Author Information

Cheng Song, Awais Shakoor, and Safina Naz are Editor in Chief; Kaiser Iqbal Wani, Muhammad Aamir Manzoor, and Muhammad Ahsan Altaf are managing editors of *Advances in Plant Science and Environment*.

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Author Contributions

The authors read and approved the final manuscript.

Article Info.

Published online: 05 February 2024

Competing Interests

The authors have no relevant financial or non-financial interests to disclose.

Additional Information

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