



Introducing the *Premier Journal of Plant Biology*

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The field of plant biology is evolving at a rapid pace, with breakthroughs and new technologies continuously reshaping our understanding of plants and their roles in ecosystems, agriculture, and global sustainability. As the volume of primary research increases, it becomes increasingly challenging for scientists to stay updated on the latest advancements across all areas of plant science. There is a growing need for a specialized platform that synthesizes and critically assesses these developments, guiding the scientific community through the most impactful and emerging trends.

Introducing a new journal, dedicated to original research and reviews on critical topics in plant biology, presents an opportunity to address this gap. Such a publication serves not only as a crucial resource for plant biologists but also as a bridge between basic research and practical applications in fields such as agriculture, biotechnology, and environmental science.

As the volume of research accelerates, we at Premier Science see the need for a new platform to synthesize and assess emerging trends and future directions in plant-based research, especially where interrelated subspecialties overlap. Thus, the new *Premier Journal of Plant Biology* aims to serve the critical role of curating the most significant and timely issues in the field. Research published here will address the state of the art for both specialists and non-specialists alike who seek to understand the latest trends.

Demand for a new journal of plant biology stems from the rapid expansion of plant sciences into an ever-increasing number of subspecialties over the past few decades. Basic areas such as morphology, anatomy, physiology, cell biology, systematics, and ecology now encompass molecular biology, biochemistry, and biophysics. They all intersect with applied plant sciences such as agronomy, biotechnology, economic botany, food science and technology, forestry, horticulture, natural resource management, global sustainability, and plant pathology.

Although the field of plant biology benefits from a diversity of researchers, early-career scientists often face barriers in academic publishing. Our new journal

encourages their work, thereby ensuring a diversity of perspectives and experiences, from established senior-level researchers to those closer to the beginning of their careers.

The establishment of a new journal of plant biology represents a bold step toward enhancing the visibility, integration, and application of plant science research. By addressing emerging trends and supporting open science, the journal will not only contribute to the scientific community but also to society's broader challenges. The time is ripe for a new publication that can keep pace with the rapid advances in plant biology, shaping the future of plant research for the benefit of both humanity and the planet.

The primary focus of the *Premier Journal of Plant Biology* is to identify and explore “hot topics”—i.e., areas of plant biology that are gaining significant attention due to their scientific importance, potential for practical applications, or societal impact. Examples of such topics might include: CRISPR and genome editing in plants, plant responses to climate change, plant microbiome and plant–microbe interactions, advances in plant phenotyping and big data, and synthetic biology and plant biotechnology.

In addition, the journal prioritizes studies that offer insights into the translational aspects of plant research, particularly those addressing global challenges such as food security, environmental sustainability, and climate adaptation.

The time is right for a new journal focused on synthesizing knowledge, guiding future research, and addressing the pressing questions in plant science. By filling this niche, the *Premier Journal of Plant Biology* aims to play a transformative role in shaping the future of plant biology, thereby fostering a deeper understanding of plants and their critical roles in sustaining life on Earth.

Our mission demands great responsibility in gaining recognition for the highest standards of peer-reviewed articles online. To that end, we have an Editorial Board consisting of respected members of the international scientific community, who aim to play an active role in the journal's continued development.