Special Issue

Emerging Topics in Molecular Biology and Plant Biotechnology: Innovations and Applications

Message from the Guest Editor

The field of molecular biology and plant biotechnology is rapidly evolving, driven by groundbreaking advancements in technology and their transformative applications. This Special Issue, Emerging Frontiers in Molecular Biology and Plant Biotechnology: Innovations and Applications, will highlight the latest innovations, methodologies, and tools shaping this dynamic discipline. We encourage submissions highlighting recent breakthroughs in genome editing (e.g., CRISPR/Cas systems); high-throughput sequencing technologies; multi-omics approaches such as transcriptomics, metabolomics, and proteomics; and applications of AI and machine learning in molecular biology. Research exploring advancements in plant biotechnology, including but not limited to tissue culture techniques and genetic/plant transformation, is especially welcome. This Special Issue also seeks studies addressing practical applications, including stress-tolerant crop development, biofortification, precision breeding, and innovations in sustainable agricultural practices. Interdisciplinary approaches that bridge computational tools with experimental biology to unlock new insights are highly encouraged.

Guest Editor

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Deadline for manuscript submissions

10 January 2026



Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



mdpi.com/si/229396

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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