

Special Issue

Technologies, Applications and Innovations in Plant Genetics Research

Message from the Guest Editors

Advancements in plant genetics research are driven by cutting-edge technologies, innovative applications, and transformative methodologies. From next-generation sequencing and CRISPR-based genome editing to precision phenotyping and learning machine-driven analysis, these innovations have accelerated genetic discoveries and their translation into practical applications. Emerging technologies in computational biology, synthetic biology, and high-throughput screening are further revolutionizing plant genetics, enabling improved crop resilience, productivity, and adaptation to environmental challenges. This Special Issue highlights the latest technologies, applications, and innovations shaping the future of plant genetics research, with a focus on their impact on agriculture and sustainability.

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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