

Special Issue

Advancements in Plant Genetics and Genome Characterization

Message from the Guest Editors

Our planet, Earth, is intrinsically plant-oriented, and the significance of plants cannot be overstated. With the advent of next-generation sequencing technologies, thousands of organellar genomes have been meticulously characterized. This extensive analysis has unraveled the intricacies of plant genome structures, revealed structural variations, and shed light on the evolutionary forces at play, adapting plants to their ever-changing environments. Furthermore, it has raised compelling questions about the interplay between organellar and nuclear genomes when structural changes occur in the former. We welcome both experimental and bioinformatic analyses of plant organellar genomes. This research topic spans reviews and original research articles, delving into the structural intricacies, comparative and evolutionary facets, variations within and among populations, functional aspects, phylogenomic insights, and other relevant subjects related to plant organelles, utilizing next-generation sequencing data.

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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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