Special Issue

Plant Functional Genomics in the Era of Omics Approaches

Message from the Guest Editors

In recent years, omics approaches have offered an extraordinary opportunity to identify and measure a huge number of genes and proteins that play a crucial role in the regulation of several plant cellular processes. The availability of the entire genome from model plants, such as Arabidopsis thaliana and rice, lays the foundations for understanding and assigning functions to unknown genes, using different and multiparallel approaches. Indeed, comparative genome analysis is actually a powerful approach, which is useful in the identification of gene functions associated with plant metabolic processes and development. In this perspective, all the data derived from transcriptomics, proteomics and metabolomics studies allow the investigation of the intricate network of relationships between biomolecules within the plant system. This Special Issue welcomes the submission of original research and review manuscripts focusing on plant functional genomic studies, including methods and developments that have made contributions to field development.

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