

Special Issue

Plant Biology and Biotechnology: Focus on Genomics and Bioinformatics

Message from the Guest Editors

The study of molecular mechanisms of plant stress response is important for agrobiotechnology applications. It is in the focus of modern sequencing and bioinformatics research. Sequencing and systems biology approaches offer a comprehensive view of plant growth from molecular to cellular, organ, and population levels. Sequencing and microscopy technologies make it possible to model protein–protein and gene regulatory interactions in plant cells, providing a basis for better crop production and sustainability. Plant–pathogen interaction studies complement network modeling in this area. Based on the high demand, we announce this Special Issue on molecular informatics for plant biotechnology, continuing journal Special Issues on medical genomics and bioinformatics based on sequencing data analysis. In this Special Issue we collect works on the following topics: 1) gene expression regulation in plants; 2) plant genomics and bioinformatics; 3) miRNA and molecular mechanisms studies in plants; 4) plant systems biology and digital phenotyping; 5) sequencing of model organisms for agro- and biotechnology.

Guest Editors

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Deadline for manuscript submissions

closed (15 February 2022)



International Journal of Molecular Sciences

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Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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About the Journal

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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