

Special Issue

Bioinformatics Toolkit for Plant Studies

Message from the Guest Editor

Advances in high-throughput technologies, including next-generation sequencing, have revolutionized the field of plant biology. Big Data is becoming increasingly important in plant biology. A significant amount of omics data, including those of genomics, transcriptomics, proteomics, metabolomics, methylomics, interactomics, and phenomics, are now available in various databases across the globe, which has presented opportunities to interrogate these data and gain new insights into plants at the molecular, physiological, and systems levels. A number of bioinformatics tools have already been developed, with many more in the works, to analyze and interpret these data and facilitate a system-level understanding of the processes within plants.

Examining plant data at different levels using bioinformatics tools is enabling the development of next-generation technologies to engineer plants for a variety of purposes, including rendering them resilient to climatic changes and breeding crops for a sustainable planet. This Special Issue will highlight current and new bioinformatics tools, both standalone and pipeline based, for plant data analysis and interpretation.

Guest Editor

Dr. Rajeev K. Azad

1. Department of Biological Sciences, University of North Texas, Denton, TX 76203, USA
2. BioDiscovery Institute, University of North Texas, Denton, TX 76203, USA
3. Department of Mathematics, University of North Texas, Denton, TX 76203, USA

Deadline for manuscript submissions

closed (31 August 2023)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/135662

Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)





Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Dilantha Fernando

Department of Plant Science, University of Manitoba, Winnipeg, MB
R3T 2N2, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)