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Bioinformatics Toolkit for Plant Studies

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

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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.



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Special Issue



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Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science,
University of Manitoba, Winnipeg,
MB R3T 2N2, Canada

Message from the Editor-in-Chief

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Plants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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