

Special Issue

Omics Study to Uncover Signalling and Gene Regulation in Plants

Message from the Guest Editors

To ensure survival and reproductive success, plants have evolved the ability to percept multiple stimuli and transmit this information into appropriate responses. This is achieved by coordinated action of signaling cascades and communication networks that broadcast signals throughout the plant body to orchestrate the expression of genes controlling plant physiology and development.

Omics studies are at the cornerstone of deciphering of signaling and communication networks in plants. These studies are based on a plethora of technologies including DNA sequencing and genotyping, transcriptome, epigenome, proteome and metabolome analysis. Recent advances in the integration of different omics technologies has led to a greater understanding of the functional consequences of signalling and gene regulation in plants.

This Special Issue aims to present the latest research in application of omics technologies and statistical and bioinformatic approaches to decipher signalling, gene regulation, and systemic communication pathways in plants. Both original research articles and comprehensive reviews are welcomed.

Guest Editors

Dr. Maria G. Samsonova

Mathematical Biology and Bioinformatics Laboratory, Institute of Physics and Mechanics, Peter the Great St. Petersburg Polytechnic University, 195251 St. Petersburg, Russia

Dr. Eric J. Bishop von Wettberg

Department of Plant and Soil Science and Gund Institute for the Environment, University of Vermont, Burlington, VT 05405, USA

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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