

Special Issue

Metabolomics to Elucidate the Metabolic Mechanisms of Plant Responses to Variable Environmental Stresses

Message from the Guest Editor

Plants are routinely exposed to abiotic/biotic stress factors, and, as sessile organisms, must develop different strategies to cope with this multitude of natural environmental conditions. Mass spectrometry (MS)-based analytical tools are the most widely used in plant metabolomics applications to investigate the molecular and biochemical mechanisms that underlie plant responses to changing environments. This Special Issue of *Metabolites* "Metabolomics to Elucidate the Metabolic Mechanisms of Plant Responses to Variable Environmental Stresses" invites manuscripts on such mechanisms in flexible aspects of plant biology. Ultimately, the knowledge provided would facilitate our understanding of how environmental stresses, single or combined, activate and coordinate different metabolic pathways to ensure plant adaptation and survival. Manuscripts on novel plant sample preparation techniques, MS-based analytical methods to identify/quantify key signaling metabolites, as well as bioinformatics tools and other technical improvements, are welcome in this Special Issue.

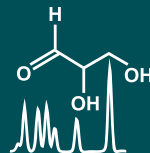
Guest Editor

Dr. Carla Ant3nio

Forest Research Centre (CEF), School of Agriculture University of Lisbon (ISA/ULisbon), Lisbon, Portugal

Deadline for manuscript submissions

closed (30 April 2021)



Metabolites

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 6.9
Indexed in PubMed



mdpi.com/si/54780

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

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





Metabolites

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 6.9
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

Editor-in-Chief

Dr. Amedeo Lonardo

Internal Medicine, Ospedale Civile di Baggiovara, Azienda Ospedaliero-Universitaria, 41126 Modena, Italy

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q2 (Endocrinology, Diabetes and Metabolism)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.4 days after submission; acceptance to publication is undertaken in 3.6 days (median values for papers published in this journal in the first half of 2025).