

Metabolomics and Plant Defence

Guest Editors:

Prof. Dr. Shitou Xia

Hunan Provincial Key Laboratory
of Phytohormones and Growth
Development, College of
Bioscience and Biotechnology,
Hunan Agricultural University,
Changsha, China

Dr. Junxing Lu

College of Life Science,
Chongqing Normal University,
Chongqing 401331, China

Deadline for manuscript
submissions:

15 October 2024

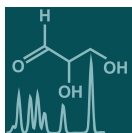
Message from the Guest Editors

Dear Colleagues,

The environment is not always suitable for plant growth and development. To combat the adversities relating to biotic and abiotic stresses, plants need to change their metabolic pathways to adapt to the environment. During this process, some special metabolites such as defence phytohormones or flavonoids might be produced or enhanced, which will be beneficial to plant defence and help them survive under environmental stresses.

For this Special Issue, we aim to collect research that is relevant to all aspects of plant metabolomics under biotic and abiotic stresses, the positive and negative effects of some special metabolites on defence and plant growth and development, phytohormone-regulated metabolic homeostasis, and methodologies advances with regard to primary and secondary metabolisms related to plant defence. We welcome original research articles as well as in-depth reviews covering these topics.





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Amedeo Lonardo

1. Formerly Director of the Simple Operating Unit "Metabolic Syndrome", Azienda Ospedaliero-Universitaria, 41126 Modena, Italy
2. Formerly Professor of Internal Medicine, School of Specialization of Allergology and Clinical Immunology, University of Modena and Reggio Emilia, 41121 Modena, Italy

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.

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, Embase, CAPUS / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Biochemistry and Molecular Biology*) / CiteScore - Q2 (*Endocrinology, Diabetes and Metabolism*)

Contact Us

Metabolites Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metabolites
metabolites@mdpi.com
X@MetabolitesMDPI