Special Issue

Strategies for Enhancing the Production of Secondary Metabolites in Plants

Message from the Guest Editor

Plant secondary metabolites are small molecules produced by plants and are crucial in processes associated with plant fitness, such as adaptation to changing environments and abiotic stresses, and the defense against pathogens, herbivores, and neighboring plants. Elicitation is another important strategy based on the application to plants of physical factors or certain chemical compounds that induce physiological changes and stimulate defense or stressinduced responses in plants, including the biosynthesis of secondary metabolites. In this context, the purpose of this Special Issue is to collect the most advanced research regarding the manipulation of the biosynthesis and accumulation of secondary metabolites in plants. The information provided here will be useful for the development of effective tools that will help in better meeting the market needs for bioactive-based products and in increasing the role of these metabolites in plant arowth and defense.

Guest Editor

Dr. Daniela Trono Research Centre for Cereal and Industrial Crops, Council for Agricultural Research and Economics, Foggia, Italy

Deadline for manuscript submissions

30 June 2025



Plants

an Open Access Journal by MDPI

Impact Factor 4.0 CiteScore 6.5 Indexed in PubMed



mdpi.com/si/202878

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

mdpi.com/journal/

plants





Plants

an Open Access Journal by MDPI

Impact Factor 4.0 CiteScore 6.5 Indexed in PubMed



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 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)