



plants



an Open Access Journal by MDPI

Molecular Mechanisms of Biosynthesis and Regulation of Plant Secondary Metabolites

Guest Editor:

Dr. Xinhua Zhang

Guangdong Provincial Key
Laboratory of Applied Botany,
South China Botanical Garden,
Chinese Academy of Sciences,
Guangzhou 510650, China

Deadline for manuscript
submissions:

31 October 2024

Message from the Guest Editor

Dear Colleagues,

Plant secondary metabolites are produced within the plants for protection against environmental stresses, including flavonoids, terpenoids, alkaloids, etc. They have been widely used as pharmaceuticals, food additives, etc., for a long time. In recent years, the ecological functions of plant secondary metabolites have gained attention. Understanding the molecular mechanisms pertaining to the biosynthesis and regulation of plant secondary metabolites could help to improve the content of metabolites or create valuable plants with enhanced resistance using molecular breeding. This Special Issue of *Plants* will highlight the function, regulation, and diversity of plant secondary metabolites, as well as their roles in the interactions of plants and their environment.

Dr. Xinhua Zhang
Guest Editor



mdpi.com/si/198225

Special Issue



an Open Access Journal by MDPI

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

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 commentaries on topics of interest to the plant research community.

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 (*Plant Science*)

Contact Us

Plants Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/plants
plants@mdpi.com
[X@Plants_MDPI](https://twitter.com/Plants_MDPI)