

Special Issue

Phytochemical Compounds and Antioxidant Properties of Plants

Message from the Guest Editor

Phytochemical compounds are essential bioactive molecules found in plants, playing a crucial role in their defense mechanisms against environmental stressors, pathogens, and herbivores, while simultaneously offering substantial benefits for human health. Among their many biological activities, antioxidant properties stand out due to their potential health benefits and diverse applications in medical, food, pharmaceutical, and cosmetic industries. Recent advances in analytical techniques have revolutionized our understanding of the structural diversity and biological activities of plant antioxidants, including polyphenols, flavonoids, carotenoids, alkaloids, and terpenes. This Special Issue aims to explore recent advances in the identification, characterization, and utilization of plant-derived phytochemicals with antioxidant properties.

Guest Editor

Prof. Dr. Smail Aazza

Department Biology, Multidisciplinary Faculty of Nador, Nador 62702, Morocco

Deadline for manuscript submissions

closed (30 November 2025)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/236682

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

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





Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



[mdpi.com/journal/
plants](https://mdpi.com/journal/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, and 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.

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)