



plants



an Open Access Journal by MDPI

Antioxidant and Antimicrobial Potential of Bioactive Compounds Found in Plants

Guest Editor:

Dr. Daniel Owens

Department of Chemistry Biology
and Health Sciences, South
Dakota School of Mines &
Technology, South Dakota Mines,
Rapid City, SD 57701, USA

Deadline for manuscript
submissions:

closed (31 March 2024)

Message from the Guest Editor

As plants are photosynthetic, they are not as limited by ATP availability as most other organisms since they are able to synthesize their own energy directly from light. One advantage this conveys to them is the ability to accumulate compounds that are not essential for central metabolic activity, but that can serve additional roles making them more fit for survival in their individual environments. These myriad natural products, often historically known as secondary metabolites, are a source of uniquely evolved compounds and chemistries that have the potential to interact in new ways and locations as well as with previously unidentified molecular target sites. These myriad libraries of compounds offer a unique opportunity for the discovery of novel bioactive compounds with antimicrobial and/or antioxidant activities. In this special edition of the journal *Plants*, we present some of the recent advances in discovery and application within the natural products field of study.



mdpi.com/si/177651

Special Issue



plants



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)