



plants



an Open Access Journal by MDPI

Phytochemistry, Functional and Nutraceutical Attributes of Grapes in Relationship with the Grapevine Cultivation Practice

Guest Editor:

Dr. Veronica Sanda Chedea

Research Station for Viticulture
and Enology Blaj (SCDW Blaj),
515400 Blaj, Romania

Deadline for manuscript
submissions:

30 December 2024

Message from the Guest Editor

Dear Colleagues,

Grapes, an ancient fruit in the berry category, are renowned for their exceptional nutritional value. Enriched with phytochemicals such as polyphenols, flavonoids, phenolic acids, and anthocyanins, grapes possess a unique flavor and provide countless health benefits. These phytochemicals play a pivotal role in maintaining human health, especially their antioxidant properties, which help neutralize harmful free radicals within the body, safeguarding cells from oxidative stress and potential damage.

The fascinating phytochemical profile and, by consequence, the functional and nutraceutical attributes of grapes are intricately linked to cultivation practices. Soils with a balance of nutrients can promote the development of flavonoids and anthocyanins, elevating the phytochemical content of grapes. Additionally, pruning techniques maximize sunlight exposure, further enhancing flavonoid production. Understanding the relationship between grape phytochemistry and bioactive properties on the one hand and cultivation methods on the other hand is essential for optimizing viticulture practices and developing grapes with optimal quality and health benefits.



mdpi.com/si/198825

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)