

Special Issue

Phytochemicals as Natural Nutrients in the Prevention and Therapy of Diseases

Message from the Guest Editors

This Special Issue will explore the vast and multidisciplinary potential of phytochemicals for use in the prevention and treatment of diseases. While our focus includes key areas such as molecular mechanisms of action, dietary sources of phytonutrients, bioavailability enhancement strategies, clinical applications of antioxidants, and synergistic effects of phytochemicals, our scope is not limited to these topics. Contributions that expand our understanding of phytochemicals' interactions with gut microbiota modulation, epigenetic regulation pathways, innovative delivery systems, lifestyle integration strategies, functional food development, phytochemical–drug synergy, novel therapeutic applications, and sustainable approaches to dietary interventions are also highly encouraged. This Special Issue will provide a platform for advancing the application of phytochemicals in health management and therapy, addressing both foundational science and real-world implementation. For this Special Issue, we invite original research and reviews that explore the broad range of multidisciplinary roles of phytochemicals in disease prevention and therapy.

Guest Editors

Prof. Dr. Natalia Kurhaluk

Institute of Biology, Pomeranian University in Słupsk, Słupsk, Poland

Dr. Halina Tkaczenko

Institute of Biology, Pomeranian University in Słupsk, Słupsk, Poland

Deadline for manuscript submissions

30 October 2025



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/235377

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

mdpi.com/journal/applsci





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)