

Special Issue

Chemopreventive Activity of Natural Products

Message from the Guest Editor

Chemoprevention involves the use of natural or synthetic chemical agents to reverse, suppress, or prevent the progression of carcinogenesis to invasive cancer. Many chemopreventive agents are plant-derived compounds that possess protective or disease-preventive properties. These natural compounds exert their chemopreventive effects through the modulation of cellular redox statuses. In several cases, changes in the cellular redox environment can lead to diverse outcomes. For instance, some phytochemicals act as antioxidants, providing protection against ROS-induced DNA damage and thereby preventing mutagenesis and the initiation of carcinogenesis. However, other natural compounds induce apoptosis in cancer cells by functioning as pro-oxidants. We invite you to submit your latest research findings or a review article to this Special Issue, which aims to compile the most recent research and critical insights into the intricate interplay between antioxidant/pro-oxidant activities and chemopreventive effects of natural compounds. These compounds may be individual substances or complex mixtures derived from terrestrial or marine sources.

Guest Editor

Dr. Dimitrios Stagos

Department of Biochemistry and Biotechnology, University of Thessaly, Larissa, Greece

Deadline for manuscript submissions

closed (31 December 2025)



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



mdpi.com/si/241652

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

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





Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarInLit, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).