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

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Deadline for manuscript submissions

31 December 2025

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/241652

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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