# Special Issue

# Chemopreventive and Antioxidant Activity of Plant Extracts and Other Phytochemical Compounds

### Message from the Guest Editors

Chemoprevention is the use of natural or synthetic chemical agents to reverse, suppress or prevent carcinogenic progression to invasive cancer. Many chemopreventive agents are plant compounds that have protective or disease-preventive properties. Moreover, natural compounds exert chemoprevention through the modulation of cells' redox statuses. In several cases, these changes in the cellular redox environment may lead to completely different outcomes. For example, some phytochemicals may act as antioxidants and offer protection against ROS-induced DNA damage, thus preventing mutagenesis and the initiation of carcinogenesis. On the other hand, there are natural compounds that induce the apoptosis of cancer cells by acting as pro-oxidants. We invite you to submit your latest research findings or a review article to this Special Issue, which will bring together the latest research and critical thinking concerning the complex and interesting interplay between the antioxidant/pro-oxidant and chemopreventive activities of compounds of natural origin. These natural compounds may be individual substances or chemical mixtures derived from either terrestrial or marine sources.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 March 2025)

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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.

## Editor-in-Chief

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