



Natural Products and Essential Oils Biocidal Activities and Innovative Applications

Guest Editors:

Dr. Nikos Tzortzakis

Department of Agricultural
Sciences, Biotechnology and
Food Science, Cyprus University
of Technology, Limassol, Cyprus

Dr. Charalampos Proestos

Food Chemistry Laboratory,
Department of Chemistry,
National and Kapodistrian
University of Athens,
Panepistimiopolis Zografou,
15771 Athens, Greece

Deadline for manuscript
submissions:

closed (28 February 2023)

Message from the Guest Editors

Medicinal and aromatic plants (MAPs) contain diverse biochemical compounds and are widely distributed worldwide. They are necessary for plant survival and adaptation to new environmental conditions, but also have different fates: helping in the fight against human diseases, functioning as additives in food products in order to enhance their nutritional and organoleptic properties as well as their shelf life and stability, and playing biostimulant and eustress roles in plant metabolism.

This Special Issue covers multidisciplinary topics, including the characterization of bioactive compounds in MAPs, and potential applications in different food products, as functional ingredients and as alternative natural preservatives to extend the shelf-life of foods. Moreover, it aims to investigate the effects that pre- and post-harvest factors may have on the biocidal properties and chemical structures of extracts and essential oils. Methods for their extraction, purification, comprehensive profiling characterization, quantification, determination of health-promoting aspects, and food applications are within the scope of this issue. Reviews and research papers are equally welcome.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

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

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.

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](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (*Chemistry (miscellaneous)*)

Contact Us

Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](https://twitter.com/Molecules_MDPI)