



## Antioxidant Activity of Natural Compounds

Guest Editor:

**Prof. Dr. Urszula Gawlik**

Department of Biochemistry and  
Food Chemistry, University of Life  
Sciences, Lublin, Poland

Deadline for manuscript  
submissions:

**closed (31 December 2020)**

### Message from the Guest Editor

While the 20th century was an age of antibiotics, the 21st century was hailed as an age of antioxidants. After more than 20 years of researching these relationships, can we clearly state that they have fulfilled their hopes? Or, on the contrary, are they a great disappointment for humanity counting on a biochemical philosopher's stone? While the role of oxidative stress in the pathogenesis of so-called civilization diseases are reliably confirmed and indisputable, and free radical damage to the key macromolecules of our body is a component of the biological clock, it should be remembered that the oxidative processes occurring in our bodies are also key to maintaining health.

Contributions to this Special Issue can cover all aspects related to the antioxidant potential of natural compounds, extraction, characterization, identification and quantification; mechanisms of antioxidant action; looking for new compounds with multidirectional antioxidant activity; the bioaccessibility and bioavailability of dietary antioxidants; interactions with other components; and the "dark side" of natural antioxidants, including in vitro and in vivo assays.





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 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.

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

## Contact Us

---

*Molecules* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/molecules](http://mdpi.com/journal/molecules)  
[molecules@mdpi.com](mailto:molecules@mdpi.com)  
[X@Molecules\\_MDPI](#)