

Special Issue

Antioxidant Activity of Natural Compounds

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.

Guest Editor

Prof. Dr. Urszula Gawlik

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

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

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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

Prof. Dr. Thomas J. Schmidt

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

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