

Special Issue

Oxidative Stress and Disease

Message from the Guest Editor

Oxidative stress is implicated in many diseases, including mental disorders, Alzheimer's disease, cancer, atherosclerosis, and chronic obstructive pulmonary disease. Although numerous small molecules regarded as antioxidants have revealed therapeutic potential in preclinical studies, clinical trial results have not yet been favorable. A better elucidation of the mechanisms through which antioxidants exert activity may provide biomarkers and effective/individualized therapeutic approaches that lead to greater clinical success. This Special Issue entitled "Oxidative Stress and Disease" aims to update the relationships between oxidative stress, redox signaling, and diseases, the mechanisms of oxidative stress contributing to time-dynamic pathology, how antioxidants act and work, and how antioxidant effects can be enhanced through physiological signaling, dietary supplements, and potential/novel pharmaceutical intervention.

Guest Editor

Prof. Dr. Hsien-Yuan Lane

Graduate Institute of Biomedical Sciences, China Medical University,
Taichung 404332, Taiwan

Deadline for manuscript submissions

closed (31 May 2022)



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



mdpi.com/si/102049

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

[mdpi.com/journal/
molecules](https://mdpi.com/journal/molecules)





Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



[mdpi.com/journal/
molecules](https://mdpi.com/journal/molecules)



About the Journal

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

Author Benefits

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)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).