



toxics



an Open Access Journal by MDPI

Toxic Agents-Induced Oxidative Stress and Antioxidant Potential of Medicinal Plants

Guest Editor:

Dr. Suzana Žunec

Division of Toxicology, Institute
for Medical Research and
Occupational Health, HR-10000
Zagreb, Croatia

Deadline for manuscript
submissions:

31 January 2025

Message from the Guest Editor

Interest related to the origin of free radicals and the role of antioxidants has arisen owing to the fact that free radicals are highly reactive and unstable molecules with a significant impact on the human biological system. Extensive research has classified different types of free radicals within three main categories: reactive oxygen species (ROS), reactive nitrogen species (RNS) and reactive sulfur species (RSS). The origin of radicals can be endogenous, while exogenous sources may be air pollution, ultraviolet radiation, alcohol, smoking, heavy metals, pesticides and certain drugs. Oxidative stress has been associated with more than one hundred pathologies (atherosclerosis, diabetes, cardiovascular diseases, pancreatic and liver diseases, joint disorders, cardiac fibrosis, acute respiratory distress syndrome, neurological diseases, aging, cancer, etc.). Antioxidant evaluation techniques or mechanisms via which medicinal plants act as antioxidants may be added value to the optimization of antioxidant ranks.



mdpi.com/si/196543

Special Issue



toxics



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Demetrio Raldúa

Department Environmental
Chemistry, IDAEA-CSIC, Jordi
Girona 18, 08034 Barcelona,
Spain

Message from the Editor-in-Chief

Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

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](#), [PMC](#), [Embase](#), [CAPus / SciFinder](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q1 (Toxicology) / CiteScore - Q2 (*Chemical Health and Safety*)

Contact Us

Toxics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/toxics
toxics@mdpi.com
X@Toxics_MDPI