

Special Issue

Pharmacological Modulation of Oxidative Stress

Message from the Guest Editor

Oxidative stress has shown to play an etiopathogenetic role in a variety of conditions, including cardiovascular diseases, neurodegenerative diseases, epilepsy, and cancer. In the last two decades the role of antioxidants has been significantly redefined. The hypothesis that “classical antioxidants” (radical scavengers) could always be beneficial for human health has been questioned by several epidemiological and clinical studies. Considering these pitfalls, more favourable approach would be to target the oxidative stress induced signalling pathways involved in disease etiology or regulation of metabolic enzymes and efflux transporters. Oxidative stress activates cascade of downstream proteins and transcription factors including protein kinase cascade, NRF2, NF-KB, AP1 etc. Hence, understanding these pathways can provide potential therapeutic targets to manage pathologies accompanying oxidative stress. In this Special Issue, we aim at collecting papers on the main pharmacological aspects of oxidative stress, with special attention to the modulation Nrf2, and in particular to the beneficial effects of the pro-oxidant activity of inhibitors of Nrf2 in cancer.

Guest Editor

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Deadline for manuscript submissions

closed (30 November 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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