



an Open Access Journal by MDPI

Nrf2 at the Crossroads of Molecular Mechanisms in Health and Disease

Guest Editors:

Dr. Magdalena Paulina Kasprzak

Department of Medical Chemistry and Laboratory Medicine, Poznan University of Medical Science, Rokietnicka 8, 60-806 Poznan, Poland

Prof. Dr. Dorota Formanowicz

Department of Medical Chemistry and Laboratory Medicine Poznan, University of Medical Sciences, 61-701 Poznan, Poland

Deadline for manuscript submissions:
closed (31 August 2024)

Message from the Guest Editors

Dear Colleagues,

The transcription factor NRF2 has been studied extensively in recent years, and is primarily associated with the regulation of the redox balance in the body. It is a specific cellular transmitter of signals, stimulated by a number of factors related to oxidative stress and inflammation. Recent studies report that the chronic activation of the NRF2 pathway may contribute to the development of reductive stress and intensify the inflammatory process, resulting in disease progression. In order to build a pharmacological therapy based on the activation of NRF2, let us try to explain the consequence of its overexpression in both health and disease. Let us find answers to the questions asking how we might stimulate/induce the NRF2 pathway so as not to lead to the harmful dysregulation of the redox system in the body.

The idea behind this Special Issue is therefore to assemble papers exploring the ups and downs of the NRF2 signaling pathway, both in physiological conditions and in disease.

Dr. Magdalena Paulina Kasprzak
Prof. Dr. Dorota Formanowicz
Guest Editors



mdpi.com/si/182069

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Felipe Fregni

1. Neuromodulation Center and
Center for Clinical Research
Learning, Spaulding
Rehabilitation Hospital and
Massachusetts General Hospital,
Harvard Medical School, Boston,
MA 02114, USA
2. Department of Epidemiology,
Harvard T.H. Chan School of
Public Health, Boston, MA 02115,
USA

Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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*, *CAPLus / SciFinder*, and other databases.

Journal Rank: JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q1 (Medicine (miscellaneous))

Contact Us

Biomedicines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/biomedicines
biomedicines@mdpi.com
[X@Biomed_MDPI](https://twitter.com/Biomed_MDPI)