



Role of Nrf2 in Disease: Novel Molecular Mechanisms and Therapeutic Approaches

Guest Editor:

Dr. Isabel Lastres-Becker

1. Instituto de Investigaciones Biomédicas “Sols-Moreale” UAM-CSIC, c/Arturo Duperier 4, 28029 Madrid, Spain

2. Department of Biochemistry, School of Medicine, Universidad Autónoma de Madrid, 28040 Madrid, Spain

3. Institute Teófilo Hernando for Drug Discovery, Universidad Autónoma de Madrid, 28029 Madrid, Spain

4. Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED), Instituto de Salud Carlos III, 28031 Madrid, Spain

Deadline for manuscript submissions:

closed (31 August 2020)

Message from the Guest Editor

Since it was cloned and characterized, the transcription factor NRF2 has been implicated in processes associated with redox balance, inflammation, proteostasis and lipids, purines and pentoses metabolism, becoming a pleiotropic transcription factor. Electrophiles or oxidative stress induce the inactivation of KEAP1 by direct modification of reactive cysteine residues, leading to the release and stabilization of NRF2, that translocates to the nucleus to bind to the antioxidant response element (ARE) sequence in the promoter regions of NRF2-dependent genes. This system makes it a good pharmacological target to modulate the activation of NRF2 and, therefore, its application in various pathologies.

This Special Issue on NRF2 should emphasize the importance of this transcription factor, and, on the other hand, it should also highlight existing pharmacological components that can modify the NRF2 signaling pathway. In this regard, any review articles which address the above-mentioned issues from different perspectives or original research papers contributing significantly to NRF2 signaling progress or advancing our understanding of biological implications are highly welcome.





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and
Molecular Medicine, Faculty of
Health and Medical Sciences,
University of Copenhagen,
Blegdamsvej 3C, DK-2200
Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer
Science, Virginia Commonwealth
University, Richmond, VA 23284,
USA

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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, MEDLINE, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Biochemistry)

Contact Us

Biomolecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/biomolecules
biomolecules@mdpi.com
X@Biomol_MDPI