Special Issue

The Nrf2 Pathway: Regulation, Functions, and Potential Applications 3.0

Message from the Guest Editor

The Nrf2 pathway, a master regulator of redox homeostasis, is an integrated cellular response for electrophiles and thiol reactive compounds. In addition to its activation by environmental electrophiles, diverse mechanisms of Nrf2 activation have been reported. The Nrf2 pathway has a wide variety of functions, such as defense against oxidative stress and electrophilic toxicity, carcinogenesis protection, tumorigenesis, anti-inflammation, stem cell regulation, anti-aging, reducing mechanical stress and organelle stress, protection against brain and skin injuries. Drug discoveries targeting the Nrf2 pathway have been explored extensively, since dysregulation of the Nrf2 pathway leads to a lot of human diseases and disorders, including cancer, diabetes, atherosclerosis, and neurodegeneration.In this Special Issue, we are widely recruiting original articles that describe new discoveries in the Nrf2 pathway regarding any relevant topic, such as physiological functions, gene regulation, activation mechanism, drug discovery, evolution, protein structure, animal models, and genomes. We also welcome review articles and commentaries.

Guest Editor

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Deadline for manuscript submissions

closed (15 May 2024)

International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 8.1
Indexed in PubMed

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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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