



Role of NRF2 in Diseases: Novel Molecular Mechanism and Therapeutic Approaches

Guest Editor:

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Deadline for manuscript
submissions:

closed (30 November 2022)

Message from the Guest Editor

NF-E2-related factor 2 (NRF2) is a transcription factor that regulates redox homeostasis and provides protection against oxidants and electrophiles by inducing the expression of a wide array of phase II cytoprotective genes in cells, and the stability of NRF2 is primarily regulated via poly-ubiquitination by Kelch-like ECH-associated protein 1 (KEAP1), an adaptor protein for Cullin 3 (CUL3)-based E3 ubiquitin ligase. By far, many NRF2 activators have been developed for chemoprevention and treatment of chronic diseases. The development of NRF2 inhibitors has gained significant interest in the field of oncology because NRF2 confers chemoresistance and radioresistance in cancer due to mutations in the KEAP1/ NRF2 pathway. This Special Issue aims to publish original research papers and reviews regarding to the elucidation of novel regulatory mechanisms of CUL3/KEAP1/NRF2 as well as the identification of novel NRF2 activators and inhibitors. We call upon scientists in this field to contribute their valuable manuscripts to this Special Issue.





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Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

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