



Oxidative Stress and NRF2 in Health and Disease—2nd Edition

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Message from the Guest Editor

Oxidative stress has long been considered a cause of various noncommunicable diseases. While some ROS are essential for normal physiology, their increase leads to pathology. The NRF2 pathway is the major signaling pathway activated in response to oxidative stress. The transcription factor NRF2 is mainly regulated by KEAP1, although its regulation and activation are more complex. NRF2 regulates the expression of more than 250 genes, not only antioxidant enzymes but also those involved in autophagy, metabolism, detoxification, protein turnover, and more. Its mode of action is not always beneficial to humans and is not fully understood. We invite researchers in this field and participants of the COST Action CA20121 - BenBedPhar to submit their latest research to this Special Issue. Potential topics include but are not limited to, deciphering the role of oxidative stress and NRF2 in physiology and pathology, their linkage to other signaling pathways, the “omics” approach to identify specific targets and key molecules, potential therapeutic strategies, etc.





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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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