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Redox Signaling and Nrf2 in Cancers

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Message from the Guest Editors

Nowadays, we are becoming increasingly aware of the importance of the role that redox signaling plays in both physiological and pathological processes. Reactive oxygen species (ROS), together with the thioredoxin, peroxiredoxin, and glutathione systems, are important in redox signaling. Nuclear factor erythroid 2-related factor 2 (NRF2), the major antioxidative transcription factor, is, among others, involved in the regulation of ROS levels and the components of the thioredoxin, peroxiredoxin, and glutathione systems. Therefore, investigating the role of ROS on one side and NRF2 in redox signaling is essential. Combining the knowledge gained in cancer research with understanding the specific switches and in what situations they occur in cancer redox signaling could present new possibilities in cancer treatment, preventing cancer development and progression to metastasis formation.

For this Special Issue, we invite authors as well as the participants of The COST Action CA20121 to submit novel work or reviews establishing the importance of redox signaling and NRF2 in cancer development and progression.



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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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