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Modulation Mechanisms of the Signalling Pathways in the Redox System by Natural Products

Guest Editor:

Prof. Dr. Junsei Taira
Department of Bioresources Engineering, National Institute of Technology, Okinawa College, Okinawa 905-2192, Japan

Deadline for manuscript submissions:
closed (31 October 2021)

Message from the Guest Editor

In a previous Special Issue entitled "Oxidative Stress Modulators and Functional Foods," we published articles for natural products extending beyond the traditional antioxidant role, which are gaining a great deal of attention in functional foods. This research topic in this new Special Issue will be the molecular mechanisms of the modulators' mediated cell signalling pathways and their potential modulations in relation to various diseases by oxidative stress. Cell signaling transductions are the basic mechanisms of many vital physical processes. Recent studies have revealed that cell signalling transduction, such as nuclear factor erythroid 2-related factor 2/Are (Nrf2/Are), mitogen-activated protein kinases (MAPKs), the nuclear factor kappa B (NF-**K**B), and protein kinase C (PKC) in the redox system are related to the various physiological actions. The molecular mechanisms of these actions and the modulation of the signalling pathways in the redox system by natural products and/or synthetic substances will be the focus. This Special Issue will publish reviews and original research papers of both in vitro and in animal models or in humans.

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Editor-in-Chief

Prof. Dr. Alessandra Napolitano
Department of Chemical Sciences, University of Naples "Federico II", Via Cintia 4, I-80126 Naples, Italy

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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Journal Rank: JCR - Q1 (*Food Science & Technology*) / CiteScore - Q1 (*Food Science*)

Contact Us

Antioxidants Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/antioxidants
antioxidants@mdpi.com
𝕏@antioxidants_OA