



Antioxidants and Cancer

Guest Editor:

**Prof. Dr. Jose Manuel
Martinez-Martos**

Department of Health Sciences,
School of Health Sciences,
University of Jaén, Campus
Universitario Las Lagunillas, E-
23071 Jaén, Spain

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Message from the Guest Editor

Antioxidants play important roles in the maintenance of cellular integrity and thus are critical in maintaining cell homeostasis. However, a delicate balance between the levels of pro-oxidants and antioxidants defines this cellular integrity, either maintaining the redox status or affecting normal cellular signaling pathways, resulting in uncontrolled proliferation of cells, leading to carcinogenesis. The use of antioxidants for the treatment of human cancers remains controversial, because cancer cells can also be killed by free radicals, which block key steps in the cell cycle and promote apoptosis. This Special Issue is focused on current knowledge about the use of pro-oxidants and antioxidants in cancer therapy, the enzyme and nonenzyme systems affected, and the intracellular signaling routes involved in their mechanisms of action with the aim to determine the true role of redox control on cancer cells.





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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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Antioxidants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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