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Antioxidant Compounds Recovered from Food Wastes

Guest Editor:

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Deadline for manuscript submissions:
closed (31 March 2023)

Message from the Guest Editor

A free radical can be defined as any molecular species capable of independent existence that contains an unpaired electron in an atomic orbital. Many abiotic stresses induce the overproduction of reactive oxygen species (ROS) in humans and animals. As highly reactive and toxic species, they cause damage to DNA, proteins, carbohydrates, and lipids, thus leading to oxidative stress. This oxidative stress induces damage to cells and tissues, resulting in a large number of diseases. Several compounds with antioxidant properties could neutralize the effects of ROS and prevent the development of many inflammatory pathologies. A number of scientific studies report the varied health benefits of antioxidant supplementation in processes such as inflammation, stress, aging, apoptosis, and neurological diseases.

This Special Issue will focus on the role of bioactive components from food waste in the treatment of various human diseases and the possible molecular pathways involved. Additionally, the Special Issue will welcome original in vivo and in vitro reviews and studies that provide evidence of the welfare effects of antioxidant factors.

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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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