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Plant Antioxidants for Food Safety and Quality

Guest Editors:

Dr. Costantino Paciolla

Dipartimento di Biologia,
Università degli Studi di Bari
"Aldo Moro", I-70125 Bari, Italy

Dr. Martina Loi

Italian National Research
Council, CNR · Institute of
Sciences of Food Production
ISPA, Bari, Italy

Deadline for manuscript
submissions:

closed (31 March 2021)

Message from the Guest Editors

Plant-derived antioxidants are a large group of compounds endowed with reducing and radical scavenging properties. In vivo, they quench radical species, peroxides, and promoters of oxidative reactions (metal ions) and act on redox-sensitive transcription factors to reduce oxidative stress.

Several studies have shown that the addition of antioxidant compounds to foods or their increase in plants reduces oxidation (mainly of lipids), improves overall quality, and increases shelf life.

Moreover, their consumption in diet can reduce cellular oxidative stress, typical of cardiovascular and neurodegenerative diseases, and cancer.

This Special Issue aims to collect original research papers and reviews which cover all aspects of plant antioxidants' application for the production of healthier and safer foods. In particular, papers dealing with novel plant antioxidants, improving antioxidant content in plants through agronomic, molecular, biochemical, or technological approaches, increasing shelf life, innovative uses in food science as antioxidants and antimicrobial, or elucidating antioxidant mechanisms are particularly welcome.



mdpi.com/si/41461

Special Issue



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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, St. Alban-Anlage 66
4052 Basel, Switzerland

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