Special Issue

Nanoantioxidants—3rd Edition

Message from the Guest Editors

One of the most exciting areas of research in the field of antioxidants is the use of natural and synthetic nanomaterials. Biocompatible nanomaterials derived from natural sources, such as metal oxides, melanins, and lignin nanoparticles, have shown applicative potential as low-toxicity radical scavengers. Their unique properties, including enhanced efficacy, targeted delivery, sustained release, and improved stability, make nanoantioxidants valuable tools in biomedical research and therapeutic development, and represent a promising avenue in biochemistry able to tackle oxidative stress and associated diseases. This Special Issue, compiling the most recent findings regarding the radical chemistry of nano-antioxidants, will pay particular attention to the following, non-exhaustive list of topics:

- Chemical aspects of the preparation of novel nanomaterials having antioxidant activity;
- Radical quenching by nanomaterials;
- Nanocarriers or nanocapsules for targeted transport and controlled release of antioxidants;
- Biomimetic methods for measuring the efficacy of nanoantioxidants;
- Biomedical applications of nanoantioxidants.

Guest Editors

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About the Journal

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.

Editor-in-Chief

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