Special Issue

Antioxidant Potential and Bioactivity of Sustainable Green Nanoparticles

Message from the Guest Editors

Nature provides various sources of bioactive compounds, many of which are potent antioxidants. The exploitation of such activities can be significantly optimized by coupling nanotechnology, as nanomaterials have unique features. Nanoparticles can be produced in microorganisms, marine organisms, or plants through a process designated as green synthesis, wherein certain biological molecules act as stabilizing, reducing, and/or capping agents. This approach can capitalize from diverse biological sources, reducing the need for harmful reagents and high energy costs in nanoparticle production. Moreover, these production processes are easy to scale up and cost-effective. The safety profile of nanoparticulate systems may also be improved, facilitating their translation for applications involving in biomedicine, food, or cosmetics. We invite you to submit original research manuscripts or review articles to this Special Issue, covering (i) various aspects of nanoparticle production using sustainable, green methodologies; (ii) aspects of the improved biocompatibility of biogenic nanoparticles; and (iii) different applications based on their antioxidant potential or other bioactivities.

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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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