Special Issue

Regulatory Effects of Curcumin, 2nd Edition

Message from the Guest Editors

The first edition of the Special Issue "Regulatory Effects of Curcumin" has been assembled and has shown the ability of curcumin to affect multiple cellular pathways relevant for the prevention of disease in several organisms. At the molecular level, these effects can be explained by antioxidant, prooxidant, and non-antioxidant actions of curcumin and its metabolites, leading to changes in signaling and gene expression. At the cellular level, curcumin affects inflammation, lipid homeostasis, senescence, mitochondrial □-oxidation, the permeability of intestinal epithelial cell layers, and bacterial growth and biofilm formation, amongst other events. At the organism level, these regulatory effects are more difficult to achieve, and a myriad of nano-formulations are being developed with the increased solubility, stability, and bioavailability of curcumin. In this second edition of the journal Antioxidants, we anticipate an expansion on these aforementioned topics and expect more studies assessing how diseases can be prevented by enhancing the bioavailability and bioactivity of curcumin and its metabolites.

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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