



Mitochondria-Targeted Antioxidants

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Message from the Guest Editors

Mitochondria-targeted antioxidants have already been shown to bear a therapeutic effect on Parkinson's and Alzheimer's diseases, type 2 diabetes, hypertension, sepsis, acute bacterial infection as well as diseases caused by xenobiotics, toxic chemicals or irradiation. However, we still need to clarify a number of issues: Should we specifically target mitochondria or not? Do we want to target the mitochondrial matrix or the membrane? What principle of ROS neutralization should be used? Whether we should target chemical or signaling effect of ROS. The purpose of this Special Issue is to bring together our current knowledge of the impact of mitochondria-targeted antioxidants on treatment of different pathologies and diseases. We would like to highlight on the future perspectives and challenges for such antioxidants to overcome their limitations in clinical practice as one of the most universal and promising approaches for treatment of diseases without hiding their adverse effects.

This Special Issue invites researchers in the field to contribute original research papers and review articles on the subject to this ambitious task.





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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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