

Special Issue

Challenges of CoQ10 Deficiency in Diagnostic, New Models of Disease and Therapy

Message from the Guest Editors

Coenzyme Q10 (CoQ) displays fundamental roles in different biological processes. During the last few decades, suboptimal CoQ status has been associated with a great variety of diseases. Extensive laboratory tools have been validated, either for the single determination of CoQ concentrations in biological fluids and cell extracts to detect deficiencies or for more sophisticated technologies that can explore CoQ biosynthesis (a very complex and intricate metabolic pathway) and functional aspects in human cells and animal models. For example, extensive research has been conducted on yeast, it being an essential tool to confirm some of the hypotheses regarding CoQ implication in biological processes and human diseases. This Special Issue aims to collect papers dealing with the different approaches for CoQ clinical and basic investigations. Pure methodological papers describing CoQ quantification techniques and biosynthesis and functional studies are welcome. Additionally, the application of such methodologies to elucidate the pathophysiology of CoQ deficiency in patient and cell models will be considered. Finally, reports on available therapeutic approaches will be considered.

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.

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