

Special Issue

Antioxidant System Efficiency in Kidney Diseases

Message from the Guest Editors

Acute and chronic renal diseases are severe illnesses of significant incidence in which dialysis and transplantation are frequently the only therapeutic options. Chronic renal diseases and their end-stage frequently follow acute episodes. Notably, there are no efficient and specific treatments, which is why dialysis and transplantation are the only therapeutic options at the moment. Tissue oxidative stress is a critical physiopathological component of renal lesions of many different origins. The intense oxidative metabolism of kidney tissue, especially in the cortex, favors the formation of reactive oxygen species. Due to this critical pathophysiological component, the search for antioxidant agents has recently intensified. At the same time, understanding oxidizing mechanisms and antioxidants has become imperative for a careful search for new agents and products of the most diverse origins. This Special Issue of *Antioxidants* aims to stimulate the sharing of new results and ideas in the field of oxidant and antioxidant mechanisms in different segments of kidney tissue, opening up new avenues of knowledge for preventing and treating kidney diseases.

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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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