



Antioxidants and Their Role in the Prevention and Treatment of Chronic Kidney Disease

Guest Editors:

Dr. Natalia Di Pietro

Department of Medical, Oral and Biotechnological Sciences, University of Chieti-Pescara, Chieti, Italy

Dr. Mario Bonomini

Nephrology and Dialysis Institute, Department of Medicine, G. d'Annunzio University, Chieti-Pescara, SS. Annunziata Hospital, Via dei Vestini, 66013 Chieti, Italy

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Message from the Guest Editors

Oxidative imbalance is widely recognized as a key component of the pathogenesis of chronic kidney disease (CKD). Indeed, it is recognized as a potential cause and consequence of reduced kidney function. In this regard, several recent *in vitro* (cells), *ex vivo* (tissues and specimens), *in vivo* (animals) and clinical studies have shown that the use of dietary antioxidants (the Mediterranean diet, polyphenols, curcumin, sulforaphane, quercetin, probiotics, etc.), antioxidant supplements (vitamins C, E, N-acetylcysteine, L-arginine, etc.) or their combination has potential protective effects for CKD and its main complications such as hypertension, atherosclerosis, inflammation, and anemia.

This Special Issue aims to provide a forum collection of the latest *in vitro*, *in vivo*, and clinical studies on antioxidants and their biological activities, with a view to a possible therapeutic application for CKD and its complications. Furthermore, as biomarkers of oxidative stress are critical for the development of novel treatments for CKD, studies on the discovery of novel oxidative stress biomarkers and other innovative biomarkers are also welcome.





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Editor-in-Chief

**Prof. Dr. Alessandra
Napolitano**

Department of Chemical
Sciences, University of Naples
"Federico II", Via Cintia 4, I-80126
Naples, Italy

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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Antioxidants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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