



Antioxidants and Chronic Inflammation

Guest Editor:

Prof. Dr. Salvador Manez

Departament de Farmacologia,
Facultat de Farmàcia, Universitat
de València, Av. Vicent Andrés
Estellés s/n, 46100 Burjassot,
Spain

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Message from the Guest Editor

Inflammatory processes are mediated by diverse messages, some of them characterized by a strict oxidative characteristic. This is the case of the activation of cyclooxygenase and 5-lipoxygenase, which are enzymes integrated in lipid metabolism; or that of nitric oxide synthase, of which the substrate is the amino acid arginine. The key reagent in these pathways is molecular oxygen, which produces their pronounced and irreversible profile. In chronic disorders, the chemical traces are endless: some are evanescent, like reactive oxygen and nitrogen species, important in cellular signaling; others are durable, such as 3-nitrotyrosine, advanced glycation end-products, malondialdehyde adducts, and citrullinated peptide chains, among others. These traces are not only valuable as analytical markers but also as indicators of the progression of the associated diseases.

This Special Issue is devoted to scientific collaborations related to the influence of oxidative processes in developing chronic inflammation, with a special emphasis on the pharmacological projection of the related antioxidant products.





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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, St. Alban-Anlage 66
4052 Basel, Switzerland

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