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Vitamins: Absorption, Metabolism and Bioavailability

Guest Editor:

Dr. Maria Morello
Clinical Biochemistry and Molecular Biology, Faculty of Medicine, Department of Experimental Medicine, University Hospital of Tor Vergata (PTV), University of Rome Tor Vergata, Rome, Italy

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Message from the Guest Editor

Lifestyles and dietary regimens have been demonstrated to have positive effects on health. In particular, the appropriate application and combination of nutraceuticals (micronutrients, minerals, hormones and vitamins) are able to modulate the inflammatory response by preventing the development and progression of various pathologies, as well as those that affect the nervous system.

Vitamin A exhibits potent antioxidant activity and controls neural cell differentiation, vitamin C minimizes oxidative stress, and vitamin D inhibits neuroinflammation and protects dopaminergic neurons in PD. In AD and PD, vitamins of the B group regulate homocysteine, thus protecting against neurodegeneration. In PD and AD, vitamins prevent, respectively, the oligomerization of alpha-synuclein and Aβ plaque formation. In MS, both vitamin A and vitamin D exhibit specific mechanisms, and anti-inflammatory and antioxidative activities.

This Special Issue aims to provide a comprehensive understanding of the potential benefits of vitamin supplementation in the prevention and treatment of these debilitating conditions.

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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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Contact Us

Antioxidants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/antioxidants
antioxidants@mdpi.com
𝕏@antioxidants_OA