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Redox Regulation in Immunometabolism

Guest Editors:

Dr. Bianca Gazieri Castelucci
Department of Genetics, Evolution, Microbiology and Immunology, University of Campinas, Campinas 13083-862, SP, Brazil

Dr. Larissa Menezes dos Reis
Department of Genetics, Evolution, Microbiology and Immunology, University of Campinas, Campinas 13083-862, SP, Brazil

Dr. Pedro Manoel Mendes Moraes-Vieira
Department of Genetics, Microbiology and Immunology, University of Campinas (UNICAMP), Campinas 13083-862, Brazil

Message from the Guest Editors

Over the last decades, several works have shown how the metabolic regulation of immune cells impacts their activation and effector function, consolidating a field called "immunometabolism". These metabolic modulations control the bioenergetic and biosynthetic processes of immune cells and regulate their responses during infections and autoimmune diseases. Oxidation–reduction (redox) reactions are indispensable for properly regulating biochemical reactions that maintain cell metabolism, making them essential for the maintenance of life. Moreover, the redox reactions associated with electron transference among the metabolic pathways can produce oxidative molecules that contribute to the effector function of immune cells, but also may cause tissue damage through an uncontrolled inflammatory response. This Special Issue aims to report on the latest knowledge about the relationship between redox regulation and metabolic and functional control of immune cells, focusing on the role of the redox balance in homeostasis and diseases.

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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