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The Role of Oxidative Stress in Viral Infections

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Message from the Guest Editor

These viral-induced responses facilitate viral replication and proliferation, enhancing viral pathogenesis. On the other hand, the innate immune system responds to viral infection by activating macrophage and dendritic cells, which contribute to inflammation. Oxidative stress and inflammation are closely related pathophysiological processes, one of which can be induced by another. Control of the immune-regulatory events is crucial in order to develop a protective immune response and to avoid the triggering of an exacerbated inflammatory response. The study of these oxidative and/or inflammatory pathways is essential in order to understand the cellular mechanisms involved in viral infection and open the possibility of developing drugs that block some of the described processes.

Contributions to this Special Issue may cover all research aspects related to the implications of oxidative stress in viral pathogenesis and the therapeutic potential of antioxidants.

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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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