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NADPH Oxidases and Chronic Inflammation-Associated Cancers

Guest Editor:

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Message from the Guest Editor

Oxidative stress plays a critical role in modulating the immune response to inflammatory stimuli. Recent evidence suggests that one source of ROS that accompanies acute and chronic inflammation in many organs is one or more members of the NADPH oxidase (NOX) family. NOX membrane proteins (NOX1-5, (Dual oxidase) DUOX1-2) catalyze isoform-specific superoxide or hydrogen peroxide generation in non-phagocytic cells, including vascular endothelium and tumor cells. There is a growing body of evidence demonstrating that one major effect of inflammation-induced cytokine secretion is the up-regulation of NOX homologues, contributing to the development of an oxidative microenvironment.

This Special Issue aims to provide a forum collection of the latest in vitro and in vivo studies on the role of NAPDH oxidase-produced ROS in the initiation and progression of cancers related to chronic inflammation.

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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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