

Special Issue

New Insights into Oxidative Stress and Inflammation in the Pathophysiology and Treatment of Respiratory Diseases

Message from the Guest Editor

Recently, the importance of the respiratory system and the need for novel therapeutic strategies for respiratory diseases have been highlighted by SARS-CoV-2. The airways are constantly exposed to various inhaled pollutants and microbes, which induce oxidative stress and inflammation. Oxidative stress, known to increase the risk of developing many acute and chronic respiratory diseases, is defined by an imbalance between the production of reactive oxygen species and the capacity of antioxidants to counteract the deleterious effects of oxidants. Normal healthy lungs protect themselves against these oxidants with cellular and extracellular antioxidant defense mechanisms throughout the epithelial lining fluid and tissues. Recently, novel therapeutic targets have been implicated in the prevention, or treatment, of respiratory disease by modulating oxidative stress and inflammation. This Special Issue focuses on different aspects of oxidative stress and inflammation in the pathophysiology and treatment of respiratory diseases in animal models.

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