



## Redox Regulation in Chronic Obstructive Pulmonary Disease

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### Message from the Guest Editor

COPD is a top-ranking, non-communicable chronic disease with respect to mortality and morbidity. The causes and molecular and cellular mechanisms underlying the progressive deterioration of lung function remain to be unraveled, in order to at least accomplish a halt to disease progression by pharmacological interventions. Oxidative stress has since long been considered a disease-driving mechanism, as ample studies have indeed shown oxidant-antioxidant imbalances, with an emphasis on irreversible, damaging oxidations of macromolecules. Yet, anti-oxidants have not been proven effective at reducing a variety of endpoints in clinical studies. An aspect that was long overlooked, is the fact that oxidants exert physiological regulatory roles in many cellular processes. These redox-based modifications are part of a complex regulatory network consisting of enzyme systems that produce oxidants in a well-controlled manner, and enzymes that catalyze the oxidation-reductions of specific targets. This Special Issue shares the improved understanding of COPD-related disturbances in redox signaling events, which will help to design antioxidant strategies that are much more specific and effective.





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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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