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Oxidative Stress and Its Implication in the Biological Mechanisms of Disease

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Message from the Guest Editors

Oxidative stress is typically defined as a condition in which the oxidative activity of radical species overcomes the action of enzymatic or non-enzymatic antioxidant defenses. In addition to free radicals and antioxidants, oxidative stress is modulated by molecular signaling pathways that involve several mediators, which also underly cellular adaptation mechanisms.

Many biological processes are regulated by the mechanisms of oxidative stress, so much that it is necessary to enact cellular defenses. However, persistent or high levels of oxidative stress can lead to what is defined as oxidative stress pathologies.

In this Special Issue, we will collect advances in life science research to define the oxidative stress mechanisms involved in pathological processes in order to also understand the adaptative and degenerative cellular response set in motion by oxidative stress.



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Special Issue



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