



Bioactive Molecules in the Control of Oxidative Stress and Oxidative Stress-Related Diseases

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Message from the Guest Editor

Oxidative stress is implicated in the pathogenesis of many diseases. This Special Issue will explore the potential of bioactive molecules obtained from natural, dietary, and endogenous sources to modulate oxidative stress and its associated pathologies. This Special Issue aims to compile cutting-edge research elucidating the antioxidant, anti-inflammatory, and cytoprotective mechanisms of these biomolecules. Contributions will cover recent findings related to the capabilities of these molecules to regulate free radical generation, influence redox signaling pathways and antioxidant defenses, and mitigate oxidative damage in cells, tissues and organs. Authors are invited to submit original research articles and authoritative reviews detailing the actions, molecular targets, and therapeutic potential of specific bioactive molecules against oxidative stress and oxidative stress-related diseases. By disseminating these discoveries, this Special Issue seeks to highlight bioactive molecules with promise regarding the prevention or deceleration of the progression of pathologies linked to oxidative stress.





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