

Special Issue

Targeting Oxidative Stress and Inflammation: Emerging Mechanisms and Therapeutics

Message from the Guest Editors

Oxidative stress and inflammation are intricately linked processes that play pivotal roles in the development and progression of a wide range of chronic diseases, including cardiovascular diseases, neurodegenerative disorders, cancer, diabetes, and autoimmune conditions. The equilibrium between oxidative stress and the body's antioxidant defense systems, along with the precise regulation of inflammatory pathways, is essential for maintaining physiological homeostasis. The disruption of this delicate balance often results in tissue damage and contributes significantly to the pathogenesis of various diseases. This Special Issue seeks to consolidate cutting-edge research and comprehensive reviews that delve into the molecular mechanisms bridging oxidative stress and inflammation. We are particularly interested in studies that elucidate their roles in disease pathogenesis and explore innovative therapeutic strategies aimed at mitigating these processes...

Guest Editors

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Message from the Editor-in-Chief

BioChem is an international and interdisciplinary open access journal encompassing the fields of molecular biology, cell biology, structural biology, nucleic acid biology, chemical biology, synthetic biology, disease biology, biophysics, and theoretical biochemistry. It publishes reviews, research articles, communications, and letters. Our aim is to encourage scientists to publish their experimental and theoretical research in as much detail as possible.

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