



Nitric Oxide and Redox Mechanisms

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Message from the Guest Editors

Nitric oxide (NO) is an essential signaling molecule present in most living organisms, including bacteria, fungi, plants, and animals. It participates in a wide range of biological processes, including vasomotor tone, neurotransmission, and immune response, and is highly reactive, able to give rise to reactive nitrogen and oxygen species that can modify a broad range of biomolecules.

The interplay between NO and redox mechanisms extends to diverse cellular processes, from regulating gene expression to mediating oxidative stress responses. Furthermore, the dysregulation of NO signaling or redox balance is implicated in numerous pathological conditions, such as cardiovascular diseases, neurodegenerative disorders, and cancer.

We invite authors to submit original research and review articles that will contribute to the understanding of the biochemical, cellular, and molecular mechanisms regulated by NO, attempting to uncover the intricate relationship between NO and redox mechanisms.





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Editor-in-Chief

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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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