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Role of Nrf2 and ROS in Bone Metabolism

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Deadline for manuscript
submissions:

10 December 2024

Message from the Guest Editor

Bone metabolism is regulated by the balance between bone formation and resorption. In recent years, it has become evident that oxidative stress, including the activities of reactive oxygen species (ROS), plays a crucial role in the regulation of bone metabolism. In addition, Nrf2 (nuclear factor erythroid 2-related factor 2) is a key transcription factor that regulates the expression of antioxidant proteins and plays a crucial role in maintaining cellular redox homeostasis. The interplay between ROS and Nrf2 signaling pathways has been implicated in various bone disorders. Understanding the molecular mechanisms that underlie the regulation of bone metabolism by ROS and Nrf2 could provide new insights into the pathogenesis of these bone disorders and lead to the development of novel therapeutic strategies. This Special Issue aims to gather articles that explore the role of Nrf2 and ROS in bone metabolism. We invite researchers from various fields to share their latest findings and perspectives on the role of Nrf2 and ROS in bone metabolism.



mdpi.com/si/204520



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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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