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Redox Regulation of Transcription

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Message from the Guest Editors

Transcription factors and transcriptional machinery are at the receiving end of signaling pathways controlling gene expression, and the mode of their regulation and action differs in health and disease. The redox state of cells, which reflects a precise balance between levels of oxidative and reductive reactions, is a crucial regulator of various cellular processes, including transcription. Cellular responses to exogenously and endogenously produced reactive oxygen species involve direct or indirect activation of transcription factors which coordinate the antioxidant response. Molecular mechanisms of redox sensing and regulation by transcription factors have been extensively studied in prokaryotes, and the research on this topic is gaining prominence in mammalian cells.

This Special Issue aims to highlight the current knowledge, recent developments and future perspectives on redox regulation of transcription in prokaryotic and eukaryotic cells, and we would like to invite you to submit your original research findings or review articles on this topic.



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Special Issue



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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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