

Special Issue

Redox Signaling in Physiological and Pathological Conditions

Message from the Guest Editors

Reactive oxygen species (ROS) and reactive nitrogen species (RNS), which are usually generated by tightly regulated enzymes, are well recognized for playing a dual role as both beneficial and deleterious species. These molecules have recently been involved in a multiplicity of physiological responses through the modulation of numerous cellular pathways. This Special Issue welcomes original papers and reviews on any relevant aspect of redox biology in physiological as well as pathological conditions: how these ROS and RNS can modulate important cellular pathways related to essential processes for cells; what role they play in physiological processes, such as growth, differentiation, or metabolism; how they promote different disease states, such as tumorigenesis, autoimmunity, and neurodegenerative diseases; and any aspect related to ROS pathology. New therapeutic approaches related to ROS signaling and/or aimed at restoring the levels of these mediators (through antioxidant supplementation) in any pathology will be also considered.

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2021)



Cells

an Open Access Journal
by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed



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About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).