

Special Issue

Cellular and Molecular Mechanisms Induced by Chemical and/or Physical Agents: Focus on Cytological Markers

Message from the Guest Editors

In the realm of cellular biology, organisms have evolved diverse response mechanisms to counter the effects of harmful chemical and physical agents. These insults can disrupt various levels of the organism's organization, ranging from the molecular level up to the entire organism. Principally, these insults can impact cells at different levels. Specifically, cells respond by activating several pathways, such as DNA repair, insult resistance, and xenobiotic detoxification, and put these strategies into place with different actors, enzymes, genes, membrane transporters, mechanisms, and actions. Interestingly, cytoprotection, survival, and cell death mechanisms represent the most frequent mechanisms activated by cells in response to chemical and/or physical agents. In this Special Issue, we welcome the submission of original research papers, full reviews, and short communications that cover the following topics related to cellular and molecular mechanisms induced by chemical and/or physical agents, with a particular focus on markers of damage, survival, or cell death.

Guest Editors

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Deadline for manuscript submissions

closed (31 January 2024)



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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).