Special Issue

Targeting Tumor Suppressor Genes for Cancer Therapy

Message from the Guest Editors

This Special Issue will advance our understanding of the molecular mechanisms underlying tumor suppressor genes (TSGs) inactivation and dysfunction across diverse cancer types and will explore innovative therapeutic strategies aimed at restoring TSG activity. Emphasizing recent discoveries, including gene editing, RNA interference, and immunotherapy approaches, we aim to present state-of-the-art developments in targeting TSGs to improve clinical outcomes. Additionally, it will focus on the interplay between TSGs and the TME, the challenges of tumor heterogeneity, and resistance mechanisms. A special emphasis will be placed on emerging technologies, such as AI and ML, which hold promise in optimizing targeted therapies and personalizing cancer treatment. Ultimately, we aim to foster interdisciplinary research and stimulate novel approaches that could revolutionize cancer therapy by effectively harnessing tumor-suppressive pathways.

- tumor suppressor genes (TSGs)
- cancer therapy
- gene editing
- CRISPR-Cas9
- DNA damage repair
- oncogenic signaling
- immunotherapy
- tumor microenvironment
- artificial intelligence
- personalized medicine

Guest Editors

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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 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).