Special Issue

State of the Art in Stem Cell Culture for Regenerative Medicine

Message from the Guest Editors

The unique properties of stem cells, namely self-renewal and differentiation, make them capable of tissue and organ maintenance, endowing abilities of regeneration during physiological cell turnover or after pathological cell injury and loss. Nowadays, regenerative medicine investigates several in vitro cell enhancement strategies, aiming at long-term cell survival, differentiation and tissue-specific function without genomic instability and rejection. The scope of this Special Issue is to present and discuss (in the form of original research papers and descriptive reviews) the state of the art in cell culture for regenerative medicine. Potential topics include, but are not limited to: embryonic and induced pluripotent stem cells or tissue-specific, unipotent stem cells; classic or three-dimensional support; decellularized native extracellular matrix or biomimetic bio-engineered scaffolds; growth factor stimulation or mechanical activation for differentiation and structural organization; and any other emerging approach influencing the in vitro translation of the in vivo conditions for stem cell culture.

Guest Editors

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Deadline for manuscript submissions

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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).