Special Issue

Feature Papers in Stem Cells

Message from the Guest Editor

Embryonic and induced pluripotent stem cells (ESCs and iPSCs) as well as adult stem cells hold great promise for future cell replacement therapies, all having advantages and concerns. Their developments require in-depth knowledge to understand and control the mechanisms of the maintenance of and exit from the undifferentiated state in specific biomaterials mimicking native niches. Although cells of the inner cell mass are in a transient state in the embryo and last just for a few days, it has been possible to capture their pluripotent fate in vitro. Indeed, they can be grown as cell lines indefinitely thanks to deep insights in the fundamental knowledge of their physiology. It is a paradox with adult stem cells which last throughout our entire life in specific physioxic niches in our body, but which are still difficult to cultivate as cell lines in vitro for more than 30 passages. In this Special issue of Cells, we will gather articles and reviews on recent fundamental and applied advances on ESC, iPSCs, and mesenchymal stem cells.

Guest Editor

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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).