

Special Issue

Transcriptional and Epigenetic Regulation of Pluripotency and Differentiation

Message from the Guest Editor

In this Special Issue of *Cells*, we collect original discoveries and reviews on the connections between epigenetics and transcription in the regulation of pluripotency and differentiation of cells in eukaryotic species. The plastic capacity of stem cells is an amazing paradigm in the fascinating world of cells. The commitment of stem cell to a lineage is consequential to the reprogramming of the chromatin structure and to specific changes in epigenetic signals. Understanding the different ways in which epigenetic signals and mechanisms govern transcriptional programs that support self-renewal, commitment to a lineage, and cell differentiation is a key step for advances in cell science and perspectives for medicine. The Special Issue is open to research dealing with all kinds of aspects related to the epigenetic regulation of pluripotency and differentiation of cells in physiology and pathology, including cancer stem cells. We look forward to your contributions to this Special Issue.

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).