Special Issue

Pluripotent Stem Cells: Current Applications and Future Directions

Message from the Guest Editor

Pluripotent stem cells (PSCs) are one of the most versatile stem cells that can differentiate into multiple cell types. PSCs, including both embryonic stem cells and induced pluripotent stem cells, have been differentiated into all three germ layers: ectoderm, mesoderm, and endoderm. PSCs can be used to derive three-dimensional models of organs called organoids, which can replicate the architecture and function of the organs. Compared to the traditional cell culture approach, these organoids provide a more physiologically relevant platform, allowing researchers to study complex diseases as well as screen drugs. PSCs have contributed significantly in advancing tissue engineering with the future possibilities of personalized medicine. This Special Issue will feature articles providing insights into the ongoing research showcasing the pluripotent stem cells' potential in diverse therapeutic applications across various fields.

Guest Editor

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Deadline for manuscript submissions

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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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