Special Issue

Germ Cells and Stem Cells in Regeneration and Repair

Message from the Guest Editor

Stem cell therapies hold promise for the treatment of injuries and illnesses associated with a variety of biological and physiological systems, such as the nervous system, the musculoskeletal system, the circulatory system, and the reproductive system. Producing patient-specific cells differentiated from an embryonic, germ, induced pluripotent, tissue-specific and transdifferentiated stem cells in vitro holds the key for these treatments. Although research into this field intensified a couple of decades ago, the mechanisms involved in these cellular modifications are only partially understood. This Special Issue of *Cells* will explore the mechanisms involved and the laboratory methods used to establish and optimize in vitro models for tissue regeneration and repair with a focus on the role of germ cells and stem cells in regenerative medicine, which may result in greater success in clinical applications.

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 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).