Special Issue

Advances and Breakthroughs in Stem Cell Research

Message from the Guest Editors

This Special Issue will center around the latest cutting-edge breakthroughs in stem cell research within immunotherapy and regenerative medicine. In recent years, advancements in stem cell research have opened promising avenues for treating and potentially curing diverse conditions such as cancers, metabolic disorders, and neurodegenerative diseases. The immense potential of specific human iPSC-derived cell lineages, including CAR T cells, CAR NK cells, neurons, cardiomyocytes, and pancreatic islets, holds transformative possibilities in revolutionizing medical practices through the development of innovative therapies. This Special Issue will explore a range of topics related to stem cell therapy, encompassing iPSC (induced pluripotent stem cell)- or hematopoietic-stem-cell-derived, therapeutically relevant lineages. We welcome original manuscripts and reviews that delve into these subjects, contributing to a more profound comprehension of recent advancements and challenges in these domains.

Guest Editors

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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.

Editors-in-Chief

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Prof. Dr. Cord Brakebusch
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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).