Special Issue

Advances in Cardiomyocyte and Stem Cell Biology in Heart Disease

Message from the Guest Editor

Heart disease remains a leading cause of mortality and morbidity worldwide, necessitating the continuous exploration of innovative therapeutic approaches. Cardiomyocytes, as the fundamental contractile units of the heart, and stem cells, with their regenerative potential, have emerged as pivotal areas of study in understanding and addressing cardiac pathophysiology. This Special Issue will focus on the latest breakthroughs in cardiomyocyte biology and stem cell research, providing a platform to discuss advances in molecular mechanisms, regenerative strategies, and translational applications. We welcome original research articles, reviews, and that highlight novel insights into cardiomyocyte function, the role of ion channels, protein therapeutics, and advancements in regenerative medicine. By bridging fundamental biology and clinical potential, this collection of papers will accelerate the development of effective treatments for heart disease. Contributions on innovative cell-based therapies, bioengineering approaches, and emerging biophysical tools are especially encouraged.

Guest Editor

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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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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).