Special Issue

Stem Cells and Beyond: Innovations in Tissue Repair and Regeneration

Message from the Guest Editor

Regenerative medicine has emerged as a transformative field, offering promising solutions for tissue repair and regeneration across a wide range of conditions. Stem cells have shown great potential due to their capacity for multilineage differentiation and their ability to influence the tissue microenvironment through the release of bioactive molecules. These cells and their secretomes play crucial roles in modulating cellular behavior and promoting tissue regeneration. In addition to cell-based therapies, there is growing interest in regenerative treatments that rely on the secretome. These treatments harness the regenerative power of bioactive molecules to stimulate tissue regeneration without the need for live cells. This Special Issue highlights the latest advancements in cell therapies, as well as emerging applications of regenerative treatments for tissue regeneration. By exploring novel strategies that combine stem-cell-based therapies with biomolecular signaling, this Special Issue aims to foster new insights into tissue regeneration strategies over a broad array of clinical applications, from wound healing to organ repair and beyond.

Guest Editor

Dr. Aurora Almadori

Centre for Nanotechnology and Regenerative Medicine, Division of Surgery & Interventional Science, University College of London, London NW3 2QG, UK

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Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

mdpi.com/journal/cells

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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).