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State of the Art and Future Prospects in Stem Cell Transplantation

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Message from the Guest Editor

Hematopoietic Stem Cell Transplantation (HSCT) has emerged as a pivotal tool against hematological malignancies. This Special Issue of "Cells" illuminates state-of-the-art advancements in HSCT, focusing on transformative strides in treating leukemia, lymphoma, and myeloma. The shift from conventional myeloablative regimens to prevalent reduced-intensity regimens signifies this evolution. The donor landscape has also broadened with cord blood transplantation and the innovative haploidentical HSCT using PTCy. A significant milestone is the recent incorporation of the Minimal Residual Disease (MRD) strategy, making HSCT decisions more scientific and precise. While we celebrate these advancements, challenges like post-transplant relapse, GVHD, and optimal donor selection remain. This Special Issue provides a comprehensive snapshot of the current landscape, emphasizing groundbreaking research and the evolving paradigms in stem cell transplantation for hematological malignancies. As readers explore these articles, from seasoned experts to newcomers, they are invited to discover the innovations shaping the future of hematologic oncology.



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Special Issue



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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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