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Gene Editing in Stem Cells: Next-Generation Stem Cell Therapies

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Message from the Guest Editor

In recent years, thousands of proteins have been identified as being associated with complex and rare diseases caused by a wide range of genetic mutations, involving single nucleotide polymorphisms, deletions, duplications and insertions of nucleotides or whole genes, as well as chromosomal rearrangements and gene rearrangements. As for the utilization of next-generation therapeutic approaches to incurable diseases, the integration of gene editing technologies and stem cells appears to hold considerable promise. In light of the boundless potential and demand for gene-edited stem cell therapies, this field of research has evolved in a variety of ways, including the discovery of new gene editing platforms, the development of advanced technologies for safe in vivo and ex vivo cell editing, and the successful homing of transplanted cells. Throughout this Special Issue of *Cells*, we aim to provide readers with the most up-to-date information on this fascinating subject.



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Special Issue



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