

Special Issue

Gene Editing Therapies for Hereditary Diseases

Message from the Guest Editor

The development of genome editing technologies has improved the prospect of treatments for several hereditary diseases. For most of them, high-precision DNA correction will be feasible. Indeed, techniques such as base editing permit us to correct the four most common single-base substitutions, while prime editing can install any substitutions, insertions, and/or deletions of dozens of base pairs. Nuclease-dependent editing approaches involving double-strand DNA breaks (DSBs) often result in a high percentage of uncontrolled editing outcomes. Base editing and prime editing techniques have higher rates of efficiency with fewer byproducts, even in slowly dividing or non-dividing cells, which are most of the cells in adult animals. Thus, these techniques are effective agents for in vivo therapeutic genome editing, not only in animal models but also in humans. I am thus proposing the publication of a Special Issue of *Cells* to present the fantastic progress in these technologies and their rapid use for the development of genetically improved plants and real personalized medical treatments. Yours faithfully,

Guest Editor

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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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