

Special Issue

Recent Advancements in Genome Editing Technologies and Their Applications for Human Diseases

Message from the Guest Editor

The aim of this Special Issue is to highlight recent advancements in genome editing technologies and their applications in the research and therapeutic development for Human diseases. Drs. Charpentier and Doudna for their breakthrough discoveries in clustered regularly interspaced short palindromic repeats (CRISPR), a revolutionizing genome editing technology. Since its initial development for mammalian genome editing in early 2013, innovative applications of CRISPR/Cas9 in basic research and therapeutic developments have been expanding exponentially. Newer technologies based on CRISPR/Cas9, such as base editing and prime editing, are continuously emerging, which empower scientists to manipulate genetic codes like never before. These new advancements in genome editing technologies offer unprecedented opportunities to study the pathophysiological mechanisms and develop innovative therapeutic strategies for many diseases. We invite contributions of original research papers and up-to-date review articles about genome editing technologies and their applications for human diseases at basic, pathogenic mechanisms, therapy, and molecular levels in the field.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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