



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

Guest Editor:

Dr. Renzhi Han

Department of Pediatrics,
Indiana University School of
Medicine, Indianapolis, IN 46202,
USA

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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.





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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

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MDPI, Grosspeteranlage 5
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