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Genome Editing Systems, Methods, Techniques and Their Application

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Deadline for manuscript
submissions:

closed (31 March 2020)

Message from the Guest Editor

Dear Colleagues,

With the rapid evolution of site-specific nuclease systems such as CRISPR-Cas9 and TALEN, genome editing technology has brought a big breakthrough in the field of life science. Precision gene engineering has been achieved in various cells, animals, plants, and microorganisms, and the derivative technologies have been developed and applied in various ways, including transcriptional control, epigenome editing, chromosome visualization, genome-wide screening, and DNA barcoding.

This Special Issue covers original research and review papers involved in this type of genome editing and related technologies. A wide range of research topics are acceptable, such as the basic development of genome editing tools and methods, functional genomics study, and biomedical applications using CRISPR-Cas9.

Prof. Tetsushi Sakuma

Guest Editor



mdpi.com/si/24447

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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