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Genome Editing 2018

Guest Editor:

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Deadline for manuscript submissions:
closed (31 August 2018)

Message from the Guest Editor

Dear Colleagues,

A recent breakthrough is the development of site-specific endonucleases for selective genome cleavage. Because of this method's high efficiency, these endonucleases make it possible to direct gene targeting using fertilized eggs. These enzymes include zinc-finger nucleases (ZFN), transcription activator-like effector nucleases (TALEN), and Cas9 nucleases. The technology using these nucleases is called "genome editing." By using these technologies, we can make knockout organisms, including for most animals and plants, which cannot be created via conventional methods. Through combination with other technologies, genome editing can generate many new technologies, such as epigenome editing, live imaging, and genome-wide screening. The field of genome editing is growing at a surprisingly rapid rate and has had a great impact on basic science, clinical applications, and breeding technologies. The main purpose of this Special Issue is to provide an open-source sharing of significant works in the field of genome editing, so as to archive new technological developments and applications.

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Message from the Editor-in-Chief

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