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Gene Editing of Large Mammals

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Message from the Guest Editors

Genome editing technologies can be used to precisely alter genomic sequences and modify the genetic information at specific target sites of an organism. Compared with the long breeding cycle and high cost of traditional genetic breeding, gene editing can be used to implement cost-effective targeted editing of animal genomes, thereby providing a powerful application tool for rapid improvement of the production traits of large mammals. In addition, some large mammals are closely related to human beings. However, the application of gene editing to generate gene-edited large mammals is still in a stage of significant development. To stimulate progress on this topic, this Special Issue aims to cover the following non-exhaustive areas of relevance:

The application of gene editing to large mammals and the successful generation of mutants;

How to improve gene editing efficiency in large animals;

Developing disease models using gene-editing technology;

Application of novel gene-editing techniques in xenotransplantation, animal bioreactor and humanized organ research.



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Special Issue



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Message from the Editor-in-Chief

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