Animal Models for Human Diseases: Advances in Genome Editing

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Animal models of human diseases are essential for understanding disease mechanisms and developing new treatments. Animal models are often selected because of their similarity to humans in terms of genetics, anatomy, and physiology. They are also often preferable for experimental disease research because of their unlimited supply and ease of manipulation. Genome editing technologies, such as CRISPR-Cas9, have revolutionized the creation of animal models by allowing for precise and efficient genetic modifications.

As genome editing technology continues to improve, we can expect to see even more sophisticated and informative models being developed. This will help us to better understand human diseases and develop new and more effective treatments.

This Special Issue will cover all aspects of modelling human diseases in various animal species via genome editing, present recent developments of novel transgenic tools and their applications and provide validation that such models can be successfully used in biomedical research.

Dr. Andrei Golovko
Guest Editor

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Special Issue

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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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