

Special Issue

Transgenic Animal Models for Disease Research

Message from the Guest Editor

In 2002, the first sequencing and analysis of a mouse genome was published in the journal *Nature* by the Mouse Genome Sequencing Consortium. 20 years later, rodent models remain a major source for generating valid knowledge in basic and preclinical research.

Genome editing, single-cell sequencing, long-read NGS, microbiome discovery, or mRNA vaccines are just a few examples of technological developments that are literally reshaping research and human medicine. On the other side, the reproducibility crisis underlines the difficulty to replicate some scientific findings including rodent phenogenomics. The goal of this Special Issue is to provide knowledge on resources available and on the latest technologies and their reproducible use for rodent model research. This Special Issue welcomes original research articles, reviews, mini-reviews and opinion articles related to:

- Tools and technologies in rodent research
- Understanding technical limitations
- Standardization of research methods
- Improving reproducibility and best reporting practices
- Proposing guidelines
- Available resources for the scientific community

Guest Editor

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Deadline for manuscript submissions

closed (20 November 2022)

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About the Journal

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.

Why not consider *Genes* for your next genetics paper?

Editor-in-Chief

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