

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

Dr. Guillaume Pavlovic

PHENOMIN-Institut Clinique de la Souris, CELPHEDIA, CNRS, INSERM,
Université de Strasbourg, Strasbourg, France

Deadline for manuscript submissions

closed (20 November 2022)

G C A T
T A C G
G C A T

Genes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed



mdpi.com/si/119029

Genes
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
genes@mdpi.com

[mdpi.com/journal/
genes](https://mdpi.com/journal/genes)



G C A T
T A C G
G C A T

Genes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5
Indexed in PubMed



[mdpi.com/journal/
genes](https://mdpi.com/journal/genes)



About the Journal

Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving 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

Prof. Dr. Selvarangan Ponnazhagan
Department of Pathology, The University of Alabama at Birmingham,
1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank:

JCR - Q2 (Genetics and Heredity) / CiteScore - Q2 (Genetics (clinical))