

Special Issue

Coordinating Regulation of Gene Expression in Cardiovascular Disease

Message from the Guest Editor

This Special Issue aims to explore the complex regulatory networks that coordinate gene expression in cardiovascular health and disease. Gene regulation is a highly dynamic process influenced by numerous factors. These mechanisms do not operate in isolation; rather, they form intricate and interconnected systems that adapt cellular behavior in response to physiological signals, stress, injury, and environmental exposures. Recent advances in high-throughput sequencing technologies, single-cell omics, genome editing, and computational biology have enabled researchers to dissect these regulatory layers with unprecedented resolution. This Special Issue invites original research articles, reviews, perspectives, and methodological papers that advance our understanding of how gene expression is regulated and coordinated in the cardiovascular system. Contributions that integrate experimental and computational approaches, or that bridge basic science with clinical relevance, are particularly encouraged.

Guest Editor

Dr. Nirmal Parajuli

1 Center for Cutaneous Biology and Immunology Research, Department of Dermatology, Henry Ford Health, Detroit, MI, USA
2 Immunology Research Program, Henry Ford Cancer Institute, Henry Ford Health, Detroit, MI, USA

Deadline for manuscript submissions

10 April 2026

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/255138

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))