

## Special Issue

# Genetics and Mechanistic Basis of Cardiomyopathies

### Message from the Guest Editors

Cardiomyopathies, also known as heart muscle diseases, are a major cause of mortality and morbidity worldwide. There are two main subtypes of cardiomyopathy, namely hypertrophic cardiomyopathy (HCM) and dilated cardiomyopathy (DCM), which are caused by pathogenic variants in sarcomeric or non-sarcomeric genes. Advances in technology as well as our understanding of cardiac diseases in recent decades have led to an explosion in newly identified genetic variants linked to cardiomyopathies. Yet, the precise molecular mechanisms leading to myocardial destruction, remodeling, and impaired functional integrity of myocardium for many of these variants and, in particular, for non-sarcomere variants remain to be defined. Moreover, to move beyond simple detection and risk stratification toward treatment, knowledge of the detailed mechanisms by which pathogenic variants in both sarcomere and non-sarcomere proteins cause cardiomyopathies is desperately needed. Therefore, this Special Issue is focused on the genetic basis and molecular underpinnings of cardiomyopathies.

### Guest Editors

Dr. Wei Guo

Dr. Zachery R. Gregorich

Prof. Dr. Jun Ren

Dr. Rongxue Wu

### Deadline for manuscript submissions

closed (25 July 2023)

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/118413](https://mdpi.com/si/118413)

*Genes*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[genes@mdpi.com](mailto: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))