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## Genetics and Epigenetics in Cardiovascular Disease

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submissions:

**15 October 2024**

### Message from the Guest Editors

Dear Colleagues,

Genetics and epigenetics play a crucial role in the development and progression of cardiovascular diseases (CVDs). The aim of this Special Issue is to highlight and explore the genetic and epigenetic factors involved in CVDs, to drive advancements in personalized medicine, and to offer tailored approaches to diagnosis, risk assessment, and treatment.

The scope of this Special Issue includes, but is not limited to, the following topics:

Understanding the intricate interplay between exercise, nutrition, and epigenetic regulation to elucidate the underlying mechanisms of CVD prevention.

Pharmacogenomic studies to identify the genetic variants associated with differential responses to drugs commonly used in the treatment of CVD.

Identification of genetic and epigenetic biomarkers playing a pivotal role in the development of risk prediction models for cardiovascular diseases.

Understanding the intricate interplay between the gut microbiome, diet, and host epigenome in cardiovascular disease to offer insights into potential therapeutic strategies.



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# Special Issue



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## Editor-in-Chief

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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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