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Genetics, Genomics and Precision Medicine in Heart Diseases

Guest Editors:

Dr. Enkhsaikhan Purevjav
Department of Pediatrics, University of Tennessee Health Science Center, Memphis, TN, USA

Dr. Jeanne M. James
School of Medicine, University of Kansas, Kansas City, KS, USA

Dr. Hugo R. Martinez
Health Science Center, University of Tennessee, Memphis, TN, USA

Deadline for manuscript submissions:
20 September 2024

Message from the Guest Editors

Dear Colleagues,

Numerous pathogenic and modifier gene variants predispose to heritable cardiovascular morbidity and mortality. These diseases encompass a wide range of conditions, including congenital malformations, cardiomyopathies, arrhythmogenic disorders, dyslipidemias, and vasculopathy. Furthermore, it has been shown that environmental and non-genetic factors play important roles in the phenotype expression of cardiovascular diseases.

In the current precision medicine era, discoveries in genetics, genomics, and genotype–phenotype association investigations have started to emerge toward precision therapies. We believe that proactive precision medicine represents the future of preventive and predictive individualized healthcare. This Special Issue is dedicated to the discoveries and emerging concepts of genetics, genomics, and precision medicine of inherited cardiovascular diseases, particularly in pediatric patients. We welcome reviews and original articles uncovering the clues of genetic and genomic bases, finding the mechanisms and pathogenesis, and employing novel genetics-oriented diagnosis and treatments of heritable cardiovascular diseases.

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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

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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Contact Us

Genes Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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