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Genetic and Genomic Research of Cardiovascular Diseases

Guest Editor:

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Deadline for manuscript submissions:

closed (15 May 2024)

Message from the Guest Editor

Cardiovascular diseases (CVDs) remain a major life-threatening issue worldwide. The pathogenesis of CVDs is closely related to environmental factors and genetic background. The majority of our genome is non-coding, and recent data suggest a role of long non-coding (LncRNA) and micro RNA (miRNA) as small non-coding RNAs in the regulation of gene expression. The search for new biomarkers in CV medicine was recently widened with the discovery of exosomes/extracellular vesicles (EVs), biologically functional cargo that transmit mRNA and microRNA to other cells and regulate the genetic signature during both physiological and pathological processes in CVDs.

This Special Issue welcomes up-to-date original research studies on genetic and epigenetic alteration and other critical modifiers of gene expression, including systematic reviews of the genetic or genomic research in CVD, in order to summarize knowledge on risk prediction, diagnosis, or therapeutic interventions by proposing next-generation platforms. Integration of different areas of genetic research will shed light on the missing heritability in CVD genomic background.



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Special Issue



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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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