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Cardiovascular Disease Risk Factors, Genetics, and Prevention

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Deadline for manuscript submissions:

closed (1 October 2021)

Message from the Guest Editor

Cardiovascular diseases (CVDs) still represent a major health issue. Knowledge gained over the last decades, through experimental approaches, has revealed the existence of multiple risk factors, including both genetic and environmental factors. The study of many genetically modified animal models has allowed the discovery of distinct genes underlying CVDs development and their molecular mechanisms of action. Thus, we know that specific genes may modulate—differentially expressed or mutated—the individual predisposition to develop either monogenic or polygenic forms of CVDs. Their interaction with environmental factors is critical to explaining the resulting pathological phenotypes. Based on the current knowledge, new preventive and therapeutic strategies can be designed to reduce the impact of CVDs.

This Special Issue will comprise reviews and original research articles focused on the recent advances of genetics/genomics and epigenetic mechanisms involved in CVD pathogenesis. Current and future directions, with particular focus on improved prevention of CVDs, particularly based on genetic acquisition, will be considered.



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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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