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Cardiovascular Disease: Precision Medicine, Pharmacogenomics and Genetics

Guest Editor:

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Deadline for manuscript submissions:
15 July 2024

Message from the Guest Editor

Dear Colleagues,

Cardiovascular disease (CVD) is the leading cause of death worldwide, accounting for ~32% of global deaths. Genetic contributions, traditional risk factors, and their comorbidities are incompletely understood. In clinical practice, considerable interindividual variability in the response to cardiovascular pharmacotherapy, such as statins, ACEIs, and β-blockers, induces severe adverse events. Precision medicine integrates clinical and health record datasets with advanced panomics (i.e., genomics, transcriptomics, epigenomics, metabolomics, and microbiomics) to uncover vascular disease phenotypes and select the corresponding pharmacotherapeutics based on the framework of interactome networks. Personalized medicine offers the potential to optimize the benefit–risk profile of cardiovascular drugs by tailoring the diagnostic and treatment strategies according to individual patients with CVD.

The purpose of this Special Issue is to host research and review papers on the modification of genetic variability in the response to cardiovascular drugs and their potential molecular mechanisms.

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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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