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Genetics and Mechanistic Basis of Cardiomyopathies

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Deadline for manuscript submissions:
closed (25 July 2023)

Message from the Guest Editors

Dear Colleagues,

Cardiomyopathies, also known as heart muscle diseases, are a major cause of mortality and morbidity worldwide. There are two main subtypes of cardiomyopathy, namely hypertrophic cardiomyopathy (HCM) and dilated cardiomyopathy (DCM), which are caused by pathogenic variants in sarcomeric or non-sarcomeric genes. Advances in technology as well as our understanding of cardiac diseases in recent decades have led to an explosion in newly identified genetic variants linked to cardiomyopathies. Yet, the precise molecular mechanisms leading to myocardial destruction, remodeling, and impaired functional integrity of myocardium for many of these variants and, in particular, for non-sarcomere variants remain to be defined. Moreover, to move beyond simple detection and risk stratification toward treatment, knowledge of the detailed mechanisms by which pathogenic variants in both sarcomere and non-sarcomere proteins cause cardiomyopathies is desperately needed. Therefore, this Special Issue is focused on the genetic basis and molecular underpinnings of cardiomyopathies.

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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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