Special Issue

The Genetic Basis of Cardiomyopathies and Heart Failure 2022

Message from the Guest Editors

Cardiomyopathies are rapidly entering the field of personalized medicine. This is evidenced by the development of the first-in-class drug in HCM, the direct myosin inhibitor mavacamten, which has been specifically developed for the treatment of a hypercontractile sarcomere, a fundamental pathomechanism for HCM observed in experimental genetic models of HCM. Gene-based therapies, including exon skipping, trans-splicing, gene replacement and CRISPR/Cas9-based techniques have been developed and used successfully in animal models for HCM caused by *MYBPC3* mutations. Therefore, apart from investigating novel genetic mechanisms for the pathomechanisms of CMP, the knowledge of the genetic basis of each patient with cardiomyopathies already seems to be of primary importance and clinical relevance. This Special Issue of *International Journal of Molecular Sciences* focuses on the genetic basis of cardiomyopathies and heart failure, and welcomes both original research articles and review papers that deal with the molecular mechanisms underlying the role of molecular genetics in cardiomyopathies and heart failure.

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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