International Journal of
Molecular Sciences

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Genetic Basis and Molecular Mechanisms of Heart Failure

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Deadline for manuscript submissions:
31 October 2024

Message from the Guest Editors

A wealth of evidence has demonstrated the relevance of gene mutations and molecular pathways in the development of heart failure, although their contribution is heterogenous and complex. Indeed, the role of genetics ranges from monogenic syndromes caused by single underlying pathogenetic mutations, to complex traits determined by the combination of multiple genetic or epigenetic individually low-penetrance loci with environmental triggers. The risk and course of heart failure depends on underlying genomic variants and mutations. As a consequence, genetic testing is starting to be applied in clinical routine diagnostics to evaluate risk, to predict prognosis and to guide treatment.

This Special Issue of the *International Journal of Molecular Sciences* focuses on the genetic basis and molecular mechanism of heart failure, and welcomes both original research articles and review papers.

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Message from the Editor-in-Chief

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