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Molecular Research Progress of Inherited Cardiomyopathies

Guest Editor:

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Message from the Guest Editor

The heart is one of the earliest-forming organs during development, and many genes contribute to its morphogenesis and function. Consequently, the diversity of genetic disorders that manifest with cardiomyopathic dysfunction is extensive. Functionally, defects in transcription, signaling, mitochondrial function, metabolism, cellular architecture, autophagy, chaperone function and other molecular and cellular processes have been implicated. Strategies to treat inherited disorders range from gene and enzyme replacement therapy to molecules that attenuate the consequences of primary gene dysfunction. Mechanisms of inherited cardiomyopathy gene dysfunction are sometimes relevant in acquired cardiomyopathies as well. For many inherited cardiomyopathies, however, disease-targeted therapy remains an elusive goal and ongoing unmet need. Understanding the molecular basis of inherited cardiomyopathies will provide wide-ranging insights into the mechanisms of cardiovascular disease and provide opportunities for better therapeutic targeting.

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Message from the Editor-in-Chief

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