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Basic Study

Dissection of Z-disc myopalladin gene network involved in the development of restrictive cardiomyopathy using system genetics approach

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Abstract

Aim: This study was to investigate the regulation of Myopalladin (*Mypn*) and identify its gene network involved in restrictive cardiomyopathy (RCM).

Methods: Gene expression values were measured in the heart of a large family of BXD recombinant inbred (RI) mice derived from C57BL/6J and DBA/2J. The

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The era of genetic medicine in cardiomyopathy research began with studies that ... was recapitulated by expression of the variant in a model system (Table 1). interact with the sarcomere, but are not directly involved in force generation. myopalladin, can also cause myofibrillar disarray and restrictive physiology (77).

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to encompass mutations in Z-disc associated genes (Z-disc hypertrophic ... this approach, the genetic subgroup entails HCM, ARVC and glycogen storage proteins beyond the cardiac myofilaments, especially proteins involved in the cyto- cardiomyopathy with mid-cavitary hypertrophy and restrictive physiology