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Nota di contenuto	Cover; Contents; Introduction; Control of cardiac hypertrophy and heart failure by histone acetylation/deacetylation; DISCUSSION; A novel mechanism of mechanical stress-induced hypertrophy; DISCUSSION; Controlling cardiomyocyte survival; DISCUSSION; Mechanisms of angiotensin II-dependent progression to heart failure; DISCUSSION; Alterations in myocardial gene expression as a basis for cardiomyopathies and heart failure; DISCUSSION; Role of the insulin-like growth factor 1 (IGF1)/phosphoinositide-3-kinase (PI3K) pathway mediating physiological cardiac hypertrophy; DISCUSSION Role of Akt in cardiac growth and metabolismDISCUSSION; Novel therapy for heart failure and exercise-induced ventricular tachycardia based on 'fixing' the leak in ryanodine receptors; DISCUSSION; GENERAL DISCUSSION I; Phospholamban as a therapeutic modality in heart failure; DISCUSSION; Sarcomere protein gene mutations and inherited heart disease: a b cardiac myosin heavy chain mutation causing endocardial fibroelastosis and heart failure; DISCUSSION; The cardiomyocyte cell cycle; DISCUSSION; Restoration of cardiac function

with progenitor cells; DISCUSSION

Signalling pathways in cardiac regenerationDISCUSSION; Beyond small molecule drugs for heart failure: prospects for gene therapy; DISCUSSION; Dual roles of telomerase in cardiac protection and repair; DISCUSSION; Final general discussion; Closing remarks: historical perspective; Contributor index; Subject index

Sommario/riassunto

Heart failure is the main cause of death and disability in the industrialized world. There is a major need for novel therapeutics for prevention and reversal of cardiac pathology associated with heart failure and cardiac enlargement. Over recent years, dramatic progress has been made in unravelling the cellular circuitry involved in cardiac failure, as well as in normal cardiac growth, development and apoptosis. This work has revealed new and unexpected therapeutic targets in the heart. In addition, advances in understanding the role of stem cells in cardiac physiology have suggested strategie
