

## Cardiac Remodeling Molecular Mechanisms

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The main objective of Cardiac Remodeling: Molecular Mechanisms is to summarize the major research advances in molecular, biochemical and translational aspects of cardiac remodeling over the last 2 to 3 decades under one cover and touch on future directions. It provides a high profile and valuable publication resource on molecular mechanisms of cardiac remodeling for both the present and future generations of researchers, teachers, students and trainees.

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Regular physical activity with aerobic and muscle-strengthening training protects against the occurrence and progression of cardiovascular disease and can improve cardiac function in heart failure patients. In the past decade significant advances have been made in identifying mechanisms of cardiomyocyte re-programming and renewal including an enhanced exercise-induced proliferational capacity ...

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[Cardiac remodeling : molecular mechanisms, treatment, and clinical implications /](#) Published: (2016) [Cardiac fibrillation-defibrillation clinical and engineering aspects /](#) by: [Valentinuzzi, Max E.](#) Published: (2011) [Ventricular fibrillation and acute ...](#)

[Cardiac remodeling molecular mechanisms](#)

Molecular mechanisms of myocardial remodeling. [Swynghedauw B](#) (1). Author information: (1)Institut National de la Sante et de la Recherche Medicale U. 127, Hôpital Lariboisiere, Paris, France. "Remodeling" implies changes that result in rearrangement of normally existing structures. This review focuses only on permanent modifications in relation to clinical dysfunction in cardiac remodeling (CR) secondary to myocardial infarction (MI) and/or arterial hypertension and includes a special ...

[Molecular mechanisms of myocardial remodeling.](#)

[Molecular Mechanisms of Remodeling After Myocardial Injury and Infarction ; Subcellular Remodeling and Cardiac Dysfunction Due to Ischemia-Reperfusion Injury /](#) [Naranjan S. Dhalla, Vijayan Elimban, Larry Hryshko, Darren H. Freed ; Role of MicroRNAs in Cardiac Hypertrophy and Postinfarction Remodeling /](#) [Jian Ding, Da-Zhi Wang](#)

[Cardiac remodeling molecular mechanisms](#)

Due to the reparative nature of many forms of cardiac fibrosis, targeting fibrotic remodeling following myocardial injury poses major challenges. Development of effective therapies will require careful dissection of the cell biological mechanisms, study of the functional consequences of fibrotic changes on the myocardium, and identification of ...

[Cardiac fibrosis: Cell biological mechanisms, molecular ...](#)

Cardiac remodeling may be defined as genome expression, molecular, cellular and interstitial changes that are manifested clinically as changes in size, shape and function of the heart after cardiac injury. The process of cardiac remodeling is influenced by hemodynamic load, neurohormonal activation and other factors still under investigation.

[Cardiac remodeling—concepts and clinical implications: a ...](#)

[Cardiac Embryology and Molecular Mechanisms of Congenital Heart Disease: A Primer for Anesthesiologists ...](#) (situated right superiorly and left inferiorly) that grow and connect in a spiral-like fashion. During this process, remodeling of the distal outflow tract cushion tissue (truncal cushions) results in the formation of the semilunar valves ...

[Cardiac Embryology and Molecular Mechanisms of Congenital ...](#)

Pathological molecular mechanisms involved in myocardial remodeling contribute to alter the existing structure of the heart, leading to cardiac dysfunction. Among the complex signaling network that characterizes myocardial remodeling, the distinct processes are myocyte loss, cardiac hypertrophy, alteration of extracellular matrix homeostasis, fibrosis, defective autophagy, metabolic abnormalities, and mitochondrial dysfunction.

[A Review of the Molecular Mechanisms Underlying the ...](#)

Several molecular pathways converge in cardiac remodeling. For example, it has been demonstrated that after a cardiac injury, inflammation is sustained through the upregulation of cytokine release, leading to fibroblast proliferation and metalloproteinases activation [ 3.

[A Review of the Molecular Mechanisms Underlying the ...](#)

The cardiac myocyte is the major cell involved in remodeling. Fibroblasts, collagen, the interstitium, and the coronary vessels to a lesser extent, also play a role. A common scenario for remodeling is after myocardial infarction. There is myocardial necrosis (cell death) and disproportionate thinning of the heart. This thin, weakened area is unable to withstand the pressure and volume load on ...

[Ventricular remodeling - Wikipedia](#)

At the molecular level, pathological cardiac remodeling is associated with aberrant up-regulation of a set of fetal genes in the myocardium, such as atrial natriuretic peptide (ANP), brain natriuretic peptide (BNP),  $\alpha$ -skeletal actin and the  $\beta$ -isoform of myosin heavy chain (MHC), with concomitant down-regulation of genes associated with normal myocyte contractile functions, such as  $\alpha$ -MHC and sarcoplasmic reticulum Ca<sup>2+</sup>-ATPase 2a.

[Heart Ventricle Remodeling - an overview | ScienceDirect ...](#)

The main objective of Cardiac Remodeling: Molecular Mechanisms is to summarize the major research advances in molecular, biochemical and translational aspects of cardiac remodeling over the last 2 to 3 decades under one cover and touch on future directions. It provides a high profile and valuable publication resource on molecular mechanisms of cardiac remodeling for both the present and future generations of researchers, teachers, students and trainees.

[Cardiac Remodeling | SpringerLink](#)

[Cardiac Remodeling : Molecular Mechanisms, Hardcover](#) by [Jugdutt, Bodh I.](#) (EDT); [Dhalla, Naranjan S.](#) (EDT), ISBN 146145929X, ISBN-13 9781461459293, Brand New, Free shipping in the US This book examines the major research advances in molecular, biochemical and translational aspects of cardiac remodeling over the last decades.

[Advances in Biochemistry in Health and Disease Ser ...](#)

Rationale: Cardiac fibrosis is observed in nearly every form of myocardial disease. Long non-coding RNAs (lncRNAs) have been shown to play an important role in cardiac fibrosis, but the detailed molecular mechanism remains unknown.Object: We aimed at characterizing lncRNA 554 expression in murine cardiac fibroblasts (CFs) after myocardial infarction (MI) to identify CF-enriched lncRNA and ...

[Frontiers | Long Non-Coding RNA 554 Promotes Cardiac ...](#)

Nevertheless, the molecular mechanisms by which exercise improves cardiovascular health and prevents tissue injury remain unclear. The recurrent deviations in whole body homeostasis caused by exercise drive adaptations in several organs, including brain, liver, adipose tissue, skeletal muscle, and, the topic of this review—the heart (6, 19).

[Metabolic Mechanisms of Exercise-Induced Cardiac Remodeling](#)

Mechanisms of ischemia/reperfusion tissue injury and post injury responses: myocardial stunning, infarction, hibernation, early post-ischemic cardiac remodeling, cellular and molecular mechanisms that govern the biology of stem cells in ischemic heart disease.

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