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The Ministry of Health, Labor, and Welfare of Japan has been encouraging the National Cardiovascular Center Research Institute to promote cardiovascular regeneration therapies using such approaches. Therefore, it is with the financial aid and support of research grants, such as that for Cardiovascular Disease (13C-1 and I6C-6), Health and Labor Sciences Research Grants (RHGTEFB-genome-005, RHGTEFB-saisei-003, and CRCD-junkanki-009) and a grant from NEDO of Japan, that significant progress ...

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Preface The cardiovascular system transports oxygen and nutrients to all parts of the body; therefore, any impediment to this system through, for example, a

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Cardiovascular Regeneration and Stem Cell Therapy is a collection of journal-like articles compiled and edited by Annarosa Leri, Piero Anversa, and William Frishman.

Cardiovascular Regeneration and Stem Cell Therapy

TRANSLATIONAL PHYSIOLOGY Cardiac regeneration therapy: connections to cardiac physiology Naofumi Takehara^{1,2} and Hiroaki Matsubara² ¹Department of Cardiovascular Regeneration and Innovation, Asahikawa Medical University, Asahikawa; and ²Department

Cardiac regeneration therapy: connections to cardiac physiology

TREATMENT of HUMAN DISEASES: CELL-BASED THERAPIES using ADULT MESENCHYMAL STEM CELLS. October ,2008 NJ Symp Biomat & Regen Med ARNOLD I. CAPLAN, Ph.D

TREATMENT of HUMAN DISEASES: CELL-BASED THERAPIES using ADULT

Stem cell therapy for cardiovascular disease has been studied extensively at both experimental and clinical levels. Pluripotent stem cells and mesenchymal stem cells were proven to be effective for myocardial regeneration, angiogenesis, and cardiac functional restoration. In this review, we will concisely discuss advantages and disadvantages of currently-used stem cells for cardiovascular repair and regeneration. The limitations and uniqueness of some types of stem cells will also be ...

The potential and challenges of using stem cells for cardiovascular

Biomaterials have great potential in cardiac repair and regeneration. The biocompatibility and biodegradation rate of most available biomaterials have been tested in different approaches by different groups. The future of biomaterials and tissue engineering is moving toward finding the ideal biomaterial-cell type combination for tissue regeneration. Selection of optimal cell types/combinations is vital for the success of tissue engineering, as the heart is a carefully balanced milieu of ...

Application of Biomaterials in Cardiac Repair and Regeneration

Organ and tissue loss through disease and injury motivate the development of therapies that can regenerate tissues and decrease reliance on transplantations. Regenerative medicine, an interdisciplinary field that applies engineering and life science principles to promote regeneration,

SPECIAL FEATURE: PERSPECTIVE Regenerative medicine: Current therapies

The severely limited ability of the heart to repair itself following infarction has led to the development of a number of novel cell therapies aimed at stimulating myocardial regeneration.

Regional assessment of myocardial regeneration therapies in rats using

Building and re-building the heart by cardiomyocyte proliferation Matthew J. Foglia and Kenneth D. Poss*
ABSTRACT The adult human heart does not regenerate significant amounts of lost tissue after injury. Rather than making new, functional muscle, human hearts are prone to scarring and hypertrophy, which can often lead to fatal arrhythmias and heart failure. The most-cited basis of this ineffective cardiac regeneration in mammals is the low proliferative capacity of adult cardiomyocytes ...

Building and re-building the heart by cardiomyocyte proliferation

Generation of human induced pluripotent stem (iPS) cells for the isolation of cardiovascular progenitor cells and cardiomyocytes. Another major challenge facing cell-based therapies for heart failure is the immune rejection of the ectopic cells transplanted into the host.

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