



Cardiac Regeneration and Repair (Two volume set) (Woodhead Publishing Series in Biomaterials)

Ren-Ke Li, Richard D. Weisel

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Heart disease is the leading cause of death in the United Kingdom and the United States. Advanced cell therapies, tissue engineering and biomaterials technologies now offer the potential to reverse the damage caused by heart disease. The two volumes of *Cardiac Regeneration and Repair* present a complete picture of our current understanding of cardiac pathologies, and the novel therapies and technologies being developed to address heart disease.

Volume One explores the pathogenesis of congestive heart failure, the mechanisms responsible for adverse cardiac matrix remodeling, and potential interventions to restore ventricular function. It highlights new approaches to cell therapy for cardiac regeneration, covering alternative routes of cell delivery, monitoring cell engraftment, and using allogeneic stem cells to restore cardiac function. This volume also explores gene therapy, including ultrasound-targeted or direct gene delivery as well as cell-based gene therapy.

Volume Two surveys the variety of biomaterials available for cardiac repair, including nanomaterials and hydrogels. This volume also focuses on tissue engineering for cardiac repair, including clinical considerations for cardiac tissue engineering, and explores vascular remodeling, highlighting aortic extracellular matrix remodeling, cell-biomaterial interactions for blood vessel formation, and stem cells for tissue-engineered blood vessels.

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