



Cardiac Regeneration and Repair: Biomaterials and Tissue Engineering (Woodhead Publishing Series in Biomaterials)

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Cardiac Regeneration and Repair, Volume Two reviews the use of biomaterials, alone or combined with cell therapy, in providing tissue-engineered constructs to repair the injured heart and prevent or reverse heart failure.

Part one explores the variety of biomaterials available for cardiac repair, including nanomaterials and hydrogels. Further chapters explore the use of biomaterials to enhance stem cell therapy for restoring ventricular function and generating stem cell-modified intravascular stents. Part two focuses on tissue engineering for cardiac repair, including chapters on decellularized biologic scaffolds, synthetic scaffolds, cell sheet engineering, maturation of functional cardiac tissue patches, vascularized engineered tissues for in vivo and in vitro applications, and clinical considerations for cardiac tissue engineering. Finally, part three explores vascular remodeling, including chapters highlighting aortic extracellular matrix remodeling, cell-biomaterial interactions for blood vessel formation, and stem cells for tissue-engineered blood vessels.

Cardiac Regeneration and Repair, Volume Two is complemented by an initial volume covering pathology and therapies. Together, the two volumes of *Cardiac Regeneration and Repair* provide a comprehensive resource for clinicians, scientists, or academicians fascinated with cardiac regeneration, including those interested in cell therapy, tissue engineering, or biomaterials.

- Surveys the variety of biomaterials available for cardiac repair, including nanomaterials and hydrogels.
- Focuses on tissue engineering for cardiac repair including clinical considerations for cardiac tissue engineering
- 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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