



Regenerative Medicine - from Protocol to Patient:

3. Tissue Engineering, Biomaterials and Nanotechnology

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Regenerative medicine is the main field of groundbreaking medical development and therapy using knowledge from developmental and stem cell biology as well as advanced molecular and cellular techniques. This collection of volumes, *Regenerative Medicine: From Protocol to Patient*, aims to explain the scientific knowledge and emerging technology as well as the clinical application in different organ systems and diseases. International leading experts from all over the world describe the latest scientific and clinical knowledge of the field of regenerative medicine. The process of translating science of laboratory protocols into therapies is explained in sections on regulatory, ethical and industrial issues. The collection is organized into five volumes: (1) *Biology of Tissue Regeneration*, (2) *Stem Cell Science and Technology*, (3) *Tissue Engineering, Biomaterials and Nanotechnology*, (4) *Regenerative Therapies I*, and (5) *Regenerative Therapies II*. The textbook gives the student, the researcher, the health care professional, the physician and the patient a complete survey on the current scientific basis, therapeutical protocols, clinical translation and practiced therapies in regenerative medicine.

Volume 3: *Tissue engineering, Biomaterials and Nanotechnology* focuses the development of technologies, which enable an efficient transfer of therapeutic genes and drugs exclusively to target cells and potential bioactive materials for clinical use. Principles of tissue engineering, vector technology, multifunctionalized nanoparticles, biodegradable materials, controlled release, and biointerface technology are described with regard to the development of new clinical cell technology. Imaging and targeting technologies as well as biological aspects of tissue and organ engineering are depicted.

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