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Biomaterials and Stem Cells in Regenerative Medicine

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Work in the area of biomaterials and stem cell therapy has revealed great potential for many applications, from the treatment of localized defects and diseases to the repair and replacement of whole organs. Researchers have also begun to develop a better understanding of the cellular environment needed for optimal tissue repair and regeneration. **Biomaterials and Stem Cells in Regenerative Medicine** explores a range of applications for biomaterials and stem cell therapy and describes recent research on suitable cell scaffolds and substrates for tissue repair and reconstruction.

Featuring contributions by experts in the field, the book explores important scientific and clinical aspects. It covers the basic science involved in structure and properties, techniques and technological innovations in processing and characterization, and applications of biomaterials and stem cells.

Topics include:

- Polymeric systems for stem cell delivery
- The potential of membranes and porous scaffolds in tissue repair, including myocardial, periodontal, ophthalmic, and bone tissues
- The optimization of the interaction between stem cells and biomaterial substrates
- The source and nature of stem cells for tissue engineering applications
- The clinical translation of stem cell–based tissue engineering for regenerative medicine

From fundamental principles to recent advances at the macro, micro, nano, and molecular scales, the book brings together current knowledge on biomaterials and stem cells in the context of regenerative medicine. It also stimulates discussion about future research directions.

This unique book offers a valuable benchmark for the current status of clinically relevant research and development in stem cells and regenerative medicine. It bridges the gaps in experimental approaches and understanding among the materials science and engineering, biological sciences, and biomedical science and engineering communities, making it a valuable reference for graduate students, researchers, and practitioners working in the multidisciplinary field of biomedical research.

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