



Kanika Chawla (Ed.)

Biomaterials for Tissue Engineering

Methods and Protocols

Series: Methods in Molecular Biology

- Includes cutting-edge methods and protocols
- Provides step-by-step detail essential for reproducible results
- Contains key notes and implementation advice from the experts

This volume provides protocols for the generation of various biomaterials for tissue engineering and regenerative medicine applications. The chapters in this book include a look at a range of biomaterials including hydrogels and other matrices (natural, synthetic, self-healing) for various applications including drug and gene delivery, surface modification and functionalization of biomaterials. In addition, techniques described include those for controlling biomaterial geometry, such as three-dimensional printing and electrospinning. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and thorough, Biomaterials for Tissue Engineering: Methods and Protocols is a valuable resource for scientists and engineers interested in this vital field of study.

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