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These therapies rely on biomaterial mimicking involving niches to control the fate of stem cells and produce stem cell-based tissues. The niches or biomimetic scaffolds can be used for long-term maintenance and lineage-specific differentiation of stem cells. This chapter introduces a method for creation of biomimetic scaffolds.

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### Biomimetic Biomaterials Structure and Applications

Part 2 Tissue engineering applications of biomimetic biomaterials: Biomimetic scaffolds for skin tissue and wound repair; Biomimetic scaffolds for stem cell based tissue engineering; Biomimetic bone regeneration; Biomimetic hydrogels as scaffolds for tissue engineering applications; Injectable biomimetic hydrogels for soft tissue repair.

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Places strong focus on cutting edge biomimetically-inspired biomaterials including chitin, hydrogels, calcium phosphates, biopolymers and anti-thrombotic coatings Provides overviews and case studies of tissue engineering applications from a biomimetics perspective Also places focus on the biomimetics of tissue engineering in the repair of bone, skin, cartilage, soft tissue and specific organs

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### Biomimetic Biomaterials Structure And Applications

Hydrogels are widely used in biomedical applications, especially tissue engineering. This chapter discusses recent progress in design and synthesis of biomimetic hydrogels as scaffolds for tissue engineering. An overview is given of the extracellular matrix (ECM) as a natural model for biomimetic modification of synthetic hydrogels, then bioactive molecules and approaches for preparing biomimetic hydrogels are described, followed by highlighting applications in bioengineering of various tissues.

### Biomimetic hydrogels as scaffolds for tissue engineering

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