

Tissue engineering III : cell–surface interactions for tissue culture

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Abstrak

This book about the cell-surface interaction, studying cell-surface interactions In vitro : a survey of experimental approaches and techniques, harnessing cell-biomaterial interactions for osteochondral tissue regeneration, interaction of cells with decellularized biological materials, evaluation of biocompatibility using In vitro methods : interpretation and limitations, artificial scaffolds and mesenchymal stem cells for hard tissues, bioactive glass-based scaffolds for bone tissue engineering, microenvironment design for stem cell fate determination, stem cell differentiation depending on different surfaces, designing the biocompatibility of biohybrids, interaction of cartilage and ceramic matrix, and bioresorption and degradation of biomaterials.