Advanced Biomaterials VII

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- **Description**
- Table of Contents

A total of 237 papers from an August 2007 symposium are collected here, in sections on tissue engineering, drug delivery systems, metal, ceramics, polymers, cell-matrix interactions, surface modifications, and micro- and nanomaterials. Some specific areas examined include cartilage tissue engineering using an elastic poly scaffold, PEGylation of conjugated linoleic acid and its applications as an anti-cancer pro-drug, receptor-mediated gene delivery using chitosan derivatives in vitro and in vivo, fabrication of a bio-composite drug delivery system using rapid prototype technology, and studies of the interface between oxide film on the titanium surface and bone tissue. Other topics include the effect of glass phase on defect formation during the dissolution of hydroxyapatite, hydrogel composed of chitosan and cyclodextrin, the effect of different hydroxyapatite particles on malignant melanoma cell behavior, and the effect of solvent on the characteristics of electrospun regenerated silk fibroin nanofibers. The book is distributed in the US by Enfield. Annotation ©2007 Book News, Inc., Portland, OR (booknews.com)

Table of Contents (237 papers, 10 per page listed)