Record Nr. UNINA9910463499003321 Biomedical applications of nano technologies: proceedings of the **Titolo** International Symposium "Biomedical Applications of Nano Technologies" of the Forum on New Materials, part of CIMTEC 2006 -11th International Ceramics Congress and 4th Forum on New Materials. held in Acireale, Sicily, Italy on June 4-9, 2006 / / edited by P. Vincenzini, World Academy of Ceramics and National Research Council, Italy, R. Barbucci, University of Siena, Italy Pubbl/distr/stampa Stafa-Zuerich:,: Trans Tech Publications Limited on behalf of Techna Group, , [2006] ©2006 **ISBN** 3-03813-101-6 1-61344-693-4 Descrizione fisica 1 online resource (141 p.) Advances in science and technology, , 1661-819X;; volume 53 Collana Altri autori (Persone) VincenziniP **BarbucciR** Disciplina 141 Soggetti Biomedical engineering Nanomedicine Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and indexes. Nota di contenuto Biomedical Applications of Nano Technologies; Committee; Preface; Table of Contents; Session 1 - Materials Synthesis, Functionalization, Characterization; Helical Rosette Nanotubes: Topographical and Chemical Roles in Osteoblast Attachment; PVA-HAp Nanocomposites for Artificial Cornea; Self-Organized Metal Oxide Exhibiting Enhanced Bioactivity; New Approaches to Lipid Bilayer Fabrication: Microfluidic Solvent Extraction and Hydrogel Encapsulation; Size-Controlled Hydroxyapatite Nanoparticles as Self-Organized Organic-Inorganic Composite Materials Organic Modification of Titania Sol-Gels and SurfacesIn Vitro Evaluation of Osteoblast and Fibroblast Responses to Precipitated Nano-

Particulate Calcium Carbonate; Folic Acid Immobilized Ferrimagnetic

DP-Bioglass to Target Tumor Cell for Cancer Hyperthermia Treatment; Session 2 - Tissue Engineering and Drug Delivery; Better Tissue Engineering Materials through the Use of Nanotechnology; Nano-Fabricated Aligned Spheroid for Cartilage Tissue Engineering; Thermo-Intelligent Surfaces for Cell Culture; Nanotechnology-Based Cell Sheet Engineering for Regenerative Medicine Release of Proteins from Nanochannel Delivery Systems: A Coupled Many-Scale Simulation - Experimental InvestigationSession 3 -Nanobiodevices; Neurite Development in PC12 Cells on Nanostructured Substrates; Nano-Bio Interface - Neural & Molecular Functions; 'Top Down' Approaches for the Study of Single-Cells: Micro-Engineering and Electrical Phenotype: Nano Patterned Surfaces for Biomaterial Applications: Controlled Release of Thrombin Using Aptamer-Based Nanodevices; Modulation of Biological Properties of Silicon Nitride for Biosensor Applications by Self-Assembled Monolayers Keywords IndexAuthors Index

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This collection presents 18 papers. Altogether, the collection a wealth of offers up-to-date information on Biomedical Applications of Nano Technologies. CIMTEC 2008: http://www.cimtec-congress.org/