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Altri autori (Persone)	LaurienzoPaola OlivaAdriana
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Nota di bibliografia	Includes bibliographical references (p. [52]-64) and index.
Nota di contenuto	Principles of tissue engineering --- Biocompatibility testing of medical devices: "tests for in vitro cytotoxicity (EN ISO 10993-5)" -- Principles of synthetic bone substitutes -- Polymers for bone tissue engineering -- Silica-based materials and nanoparticles for bone regeneration -- The use of calcium sulphate in bone regeneration -- Realization and performance analysis of PCL/silica nanocomposites for bone regeneration -- Mechanical alloys (chemical physical and mechanical properties) -- Chemical modification and characterization of nanocomposites -- Morphologic analysis (SEM) : biological evaluation -- Experimental materials -- Preparation of silica nanoparticles -- Preparation of nanocomposites -- Differential thermal analysis (DSC) -- Preparation and characterization of bone marrow MSCs -- Novel injectable alginate/n-succinylchitosan/calcium sulphate composites as bone-defects : biological evaluation.