

1. Record Nr.	UNINA9910815406103321
Titolo	Bioengineered nanomaterials // edited by Atul Tiwari, Ashutosh Tiwari
Pubbl/distr/stampa	Boca Raton, : CRC Press, 2014
ISBN	0-429-16868-3 1-4665-8595-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (454 p.)
Altri autori (Persone)	TiwariAtul TiwariAshutosh <1945->
Disciplina	610.28
Soggetti	Biomedical materials Nanomedicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Contents; Preface; Editors; Contributors; Chapter 1 - Emerging Potential of Nanoparticles for the Treatment of Solid Tumors and Metastasis; Chapter 2 - Aptamer-Nanomaterial Conjugates for Medical Applications; Chapter 3 - Recent Advances in Immobilization Strategies in Biomaterial Nanotechnology for Biosensors; Chapter 4 - Nanofibers and Nanoparticles in Biomedical Applications; Chapter 5 - Nanoemulsions as a Vaccine Adjuvant; Chapter 6 - Inorganic Nanomaterials of Carbonate Apatite as Intracellular Nucleic Acid/Drug Transporters Chapter 7 - Bioceramic Nanomaterials in Medical Applications Chapter 8 - Imaging and Triggered Release through Design of Ultrastable Core-Shell Iron Oxide Nanoparticles; Chapter 9 - Natural and Synthetic Nanoporous Membranes for Cell Encapsulation Therapy; Chapter 10 - Lipid and Cyclodextrin Nanocarriers Loading Bioactive Agents:: Stabilization on Polymeric Supports; Chapter 11 - Silver Nanoparticles: Nanotoxicity Testing and Bioapplications; Chapter 12 - Nanoparticle Production for Biomedical Applications via Laser Ablation Synthesis in Solution; Chapter 13 - Nanomedicine in Brain Tumors Chapter 14 - Inorganic Nanoparticle Materials for Controlled Drug Delivery Systems Chapter 15 - Gold Nanoshells and Carbon Nanotubes as a Therapeutic Tool for Cancer Diagnosis and Treatment; Chapter 16

- Bioinspired Nanomaterials for Bone Tissue Engineering; Back Cover

Sommario/riassunto

"This book focuses on the novel methodologies and strategies adopted during recent research and development of bioengineered nanomaterials for biomedical applications. It provides comprehensive and updated information on developments in this emerging area. The chapters discuss topics such as nanoemulsions as a vaccine adjuvant, bio-ceramic nanomaterials in medical applications, the potential of nanoparticles for the treatment of solid tumors and metastasis, natural and synthetic nanoporous membranes for cell encapsulation therapy, silver nanoparticles, nanotoxicity testing and bioapplications, inorganic nanoparticle materials for controlled release of drugs, and more"--
Provided by publisher.