Record Nr.	UNINA9910800197603321
Titolo	Horizons in clinical nanomedicine / / edited by Varvara Karagkiozaki, Stergios Logothetidis
Pubbl/distr/stampa	Boca Raton, FL:,: CRC Press:,: Pan Stanford Publishing,, [2014] ©2014
ISBN	0-429-07371-2
	981-4411-56-6
Descrizione fisica	1 online resource (364 p.)
Disciplina	610.28
Soggetti	Nanomedicine
	Nanostructured materials - Toxicology
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; Chapter 1: Introduction in Clinical Nanomedicine; Chapter 2: Nanomedicine Combats Atherosclerosis; Chapter 3: Nanomedicine Advancements in Cancer Diagnosis and Treatment; Chapter 4: Nanomedicine and Blood Diseases; Chapter 5: Nanomedicine and Orthopaedics; Chapter 6: Nanopharmaceutics: Structural Design of Cationic Gemini Surfactant-Phospholipid-DNA Nanoparticles for Gene Delivery; Chapter 7: Nanomedicine and Embryology: Causative Embryotoxic Agents Which Can Pass the Placenta Barrier and Induce Birth Defects; Chapter 8: Nanomedicine and HIV/AIDS Chapter 9: Nanoscaffolds and Other Nano-Architectures for Tissue Engineering-Related ApplicationsChapter 10: Biocompatible 2D and 3D Polymeric Scaffolds for Medical Devices; Chapter 11: Regenerative Dentistry: Stem Cells Meet Nanotechnology; Chapter 12: Toxicity and Genotoxicity of Metal and Metal Oxide Nanomaterials: A General Introduction; Chapter 13: Analogies in the Adverse Immune Effects of Wear Particles, Environmental Particles, and Medicinal Nanoparticles
Sommario/riassunto	Nanomedicine-the application of nanotechnology to health sciences- has the potential to address many important medical problems by exploiting the advanced physicochemical characteristics of

nanostructured materials and devices. It can revolutionize conventional medicine by offering cutting-edge developments in the processes of diagnosing, treating, and preventing diseases, injuries, or genetic disorders. Thus, clinical nanomedicine holds promise to preserve and improve human health. This book provides a comprehensive overview on the forefront developments of nanotechnology in various domains of