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Titolo	Nanopharmaceuticals: Principles and Applications Vol. 1 // edited by Vinod Kumar Yata, Shivendu Ranjan, Nandita Dasgupta, Eric Lichfouse
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Nota di contenuto	Chapter 1 Liposomes vs Phytosomes: Principles, Methodologies and Therapeutic Applications with Emphasis on CNS disorders -- Chapter 2 Applications of nanopharmaceuticals in delivery and targeting -- Chapter 3 Applications of iron oxide nanoparticles in the magnetic resonance imaging for the cancer diagnosis -- Chapter 4 DNA-Based Nanopharmaceuticals -- Chapter 5 An overview on ionic liquids: A new frontier for nanopharmaceuticals -- Chapter 6 Therapeutic implications of nanopharmaceuticals in skin delivery -- Chapter 7 Biomimetic and Synthetic Gels for Nanopharmaceutical Applications -- Chapter 8 On-chip Drug Screening Technologies for Nanopharmaceutical and Nanomedicine Applications -- Chapter 9 Synthesis of Some Bioactive Nanomaterials and Applications of Various Nanoconjugates for Targeted Therapeutic Applications.
Sommario/riassunto	This book discusses the biological, technical and study-design challenges of Nanopharmaceuticals. Chapters of this book are dedicated to supermagnetic iron oxide nanoparticles for the diagnosis of brain, breast, gastric, ovarian, liver, colorectal, lung and pancreatic cancers. It also includes a brief introduction to magnetic resonance imaging and ends with the future prospective of iron oxide nanoparticles in cancer detection. The book also provides a critical discussion on 'Computational sequence design for DNA

nanostructures' and gives a brief introduction about the skin delivery. A detailed discussion has been included about the different types of nanocarriers such as micells, microemulsions, nanoemulsions, polymeric and lipid based nanoparticles. Focussing on the safety concerns of nanomedicine it also covers the safety issues, clinical benefits, ecotoxicity and regulatory frame work of nanopharmaceuticals.
