Record Nr. UNINA9910465388103321 Nanoparticulate drug delivery systems [[electronic resource]]: **Titolo** strategies, technologies, and applications / / edited by Yoon Yeo Pubbl/distr/stampa Hoboken, N.J.,: Wiley, 2013 **ISBN** 1-299-24223-5 1-118-57054-5 Descrizione fisica 1 online resource (326 p.) Altri autori (Persone) YeoYoon 615.1/9 Disciplina Soggetti **Nanoparticles** Drug delivery systems Pharmaceutical biotechnology 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 index. Nota di contenuto Nanoparticulate Drug Delivery Systems: Strategies, Technologies, and Applications; Contents; Preface; Contributors; 1 Tumor-Targeted Nanoparticles: State-of-the-Art and Remaining Challenges; 1.1 INTRODUCTION; 1.2 FUNCTIONS OF NANOPARTICLES; 1.3 TUMOR-TARGETED NANOPARTICLES; 1.3.1 Passive Targeting; 1.3.2 Active Targeting; 1.3.3 Target-Activated Systems; 1.4 REMAINING CHALLENGES IN THE DEVELOPMENT OF TUMOR-TARGETED NANOPARTICLES; 1.4.1 NP Stability; 1.4.2 Heterogeneous Tumor Vasculature; 1.4.3 NP Distribution in Tumors; 1.4.4 Regulatory Considerations; 1.5 FUTURE PERSPECTIVES 1.5.1 In Vitro Models1.5.2 In Vivo Models; 1.5.3 New Targets; 1.5.4 New Therapeutic Agents; Acknowledgments; REFERENCES; 2 Applications of Ligand-Engineered Nanomedicines; 2.1 INTRODUCTION; 2.1.1 Nanoparticulate Drug Delivery; 2.1.2 Engineered Nanoparticulate Drug Delivery; 2.2 LIGAND-MEDIATED DELIVERY; 2.2.1 Antibodies; 2.2.2 Peptides and Proteins; 2.2.3 Sugars and Polysaccharides; 2.2.4 Small Molecule Chemicals; 2.3 CURRENT

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"The use of nanoparticles to deliver drugs to specific cells has substantially increased. This guide offers a thorough, up-to-date reference on nanotechnologies for drug delivery, frankly discussing challenges and limitations with nanoparticulate drug delivery systems. After discussing strategies to further develop these systems, chapters focus on applications like nanoparticles for topical drug delivery and nanomedicine toxicology, along with new techniques and methodologies like NanoCrystal. This up-to-date book offers an invaluable reference to any pharmaceutical researcher interested in nanomedicine"--