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Nota di contenuto	Nanotheranostics:An emerging nanoscience -- Green bionanomaterials: current status and future prospects in theranostics -- Current status and prospects of Chitosan–metal Nanoparticles and their applications as theranostic agents -- Aptamersnano complexes and aptamer based biosensors' role in ultrasensitive sensing -- Nanotheranostics Approaches In Antimicrobial Resistance -- Nanomaterials for selective targeting of intracellular pathogens -- Impact of nanoformulations on viruses and bacteria -- Theranostic potential of aptamers in antimicrobial chemotherapy -- Current and future aspects of nanotheranostics in cancer therapeutics -- Superparamagnetic Iron Oxide Nanoparticles (SPIONs) for Cancer Theranostic applications -- Theranostic applications of Nanobiotechnology in Cancer -- Aminolevulinic acid associated with

nanotechnology for theranostic applications -- Non-viral targeted gene delivery for inflammatory disorder: applications and limitation. .

Sommario/riassunto

This book is specifically designed to provide information about various nanocarriers currently developed under the emerging field of nanotheranostics for a sustained, controlled, and targeted co-delivery of diagnostic and therapeutic agents. Diverse theranostic applications of nanotechnology and their limitations are also addressed. It integrates nanobiotechnology with theranostic applications. The combined term nanotheranostics has diverse application particularly in chemotherapy and other infectious diseases. Among other topics addressed are antimicrobial resistance, targeting intra-cellular pathogens, viruses and bacteria, chemotherapy, cancer therapeutics, and inflammatory disorders. This interdisciplinary volume, *Nanotheranostics, Applications and Limitations*, is essential for a diverse group of readers including nanotechnologists, microbiologists, biotechnologists, bioengineering and bioprocess industry. .
