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Nota di contenuto	Imaging Modalities and Their Applications in Cancer Detection Using Nanomaterials -- Nanoparticles for Enhanced Radiotherapy and Imaging Applications -- Magnetic Droplets for Advanced Theranostics: Cancer Diagnosis, Targeted Delivery, and Therapeutics -- Magnetic Nanomaterials for Hyperthermia and Bioimaging -- An Up-To-Date Look At In Vitro Models of Nose-to-Brian Drug Delivery -- Theranostic Nanoparticles for Therapy and Imaging in Cancer Detection -- Theranostic Nanoparticles in Cancer Diagnosis and Treatment -- Nanomaterials Mediated Diagnosis of Lung Cancer -- Role of Electrospun Nanofibers in Cancer Detection and Treatment -- Biocompatibility and Toxicity Perspective for the Development of

Nanomaterials for Cancer Detection and Treatment -- Recent Progress in Detection of Breast Cancer Biomarkers by Clinical and Imprinting Polymer-Based Sensors -- Engineered Hybrid Nanoparticles for Multimodal Medical Imaging and Diagnosis -- Hybrid Nanoparticles in Biomedical Applications -- A Voyage on Biomedical Applications of Multicomponent Nanoparticles in Medical Imaging -- Nanotheranostic: A Versatile Approach for Eye Cancer Diagnosis and Treatment -- Protein and peptide-based Therapeutics for Cancer Imaginget.alet -- Therapeutic Uses of TheraCour™ Polymeric Nanomicelles Against Cancer, Infectious Diseases and More -- Nanomaterials for Cancer Theranostics: Clinical Trial Process, Market Statistics, and Factors to Increase Success Rate from Lab to Clinic.

Sommario/riassunto

This book presents nanomaterials for cancer detection using a variety of state-of-the-art imaging techniques. Clinical applications are also highlighted. The unique size-dependent properties and convenient surfaces for molecular assembly make these nanomaterials essential for a variety of innovative imaging techniques. This book covers important imaging modalities, synthesis of nanoparticles with specific functional properties, and clinical applications including the development of anticancer drugs. The information presented here involves contributions from chemistry, materials science, materials characterization, cell engineering, and clinical testing. The book will be essential reading to experienced clinicians as well as a wide range of scholars and researchers interested in nanotechnology and imaging techniques for cancer detection.