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Nota di contenuto	Platform to improve proteomic evaluation to cancer therapy -- Epigenetics in cancer therapy -- Diagnosis of metastatic cancer -- Intervention of the microbiome for cancer therapy -- Lipid nanocarriers in cancer therapy -- Polymeric nanocarriers in cancer therapy -- Inorganic nanocarriers in cancer therapy -- Functionalization of nanostructures in cancer treatment -- Nano-fabrication technologies as cancer models -- Monoclonal antibodies in nanosystems as a strategy for cancer treatment -- Peptides and proteins in nanosystems as a strategy for cancer treatment -- Gene silencing for cancer therapy -- Nanotechnology to correct mitochondrial disorders in cancer diseases -- Chronobiology and nanotechnology to personalized cancer therapy -- Mannosylated nanovaccines in cancer immunotherapy -- Performance of anticancer DNA nanovaccines -- Anticancer messenger RNA nanovaccines -- Nanoparticles for imaging diagnostic techniques in cancer -- Nanomaterials for cancer phototheragnostic -- Photoimmunological therapies for cancer -- Microneedle-based delivery devices for cancer therapy -- Clinical trials involving

nanocarriers in cancer therapy.

Sommario/riassunto

Cancer nanotechnology is a growing, emerging area of cross-disciplinary research that aims to develop efficient, specific and noninvasive approaches to restore the health and well-being of all cancer patients through more effective diagnosis and treatment. This new volume serves as a fundamental guide to cutting-edge topics in cancer nanotechnology, including advances in therapy, the use of nanoparticles and nanomaterials, future directions for nanocarriers in cancer therapy, and the application of DNA and RNA nanovaccines. Organized into four sections, the volume presents an overview of research and innovation in the emerging field of nanotechnology as a powerful tool in the diagnosis, imaging and treatment of cancer. International experts author chapters addressing targets of cancer therapy, materials for cancer nanotechnology, strategies for cancer therapy using nanotechnology, and innovative nanotechnologies for cancer diagnosis and treatment. The volume will be useful for abroad audience, including cross-disciplinary researchers, trainees, health professionals, and experts in industry. .
