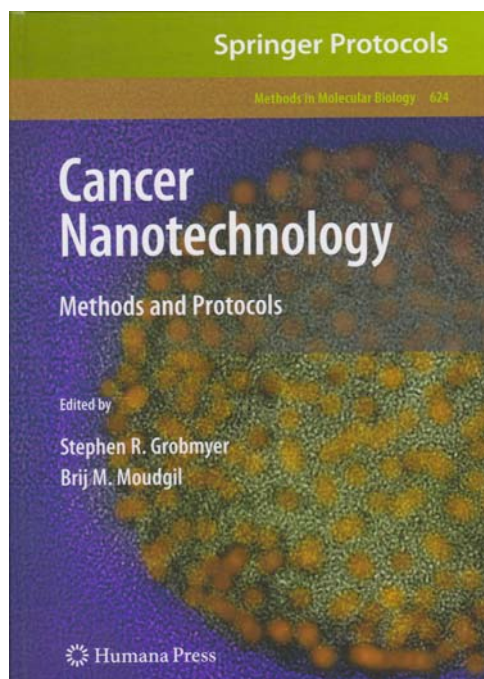


STEPHEN R. GROBMYER, BRIJ M. MOUDGIL (EDS.) CANCER NANOTECHNOLOGY METHODS AND PROTOCOLS



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Early detection of cancer at the cellular level, even before anatomic anomalies are visible, is critical to more efficacious and cost effective diagnosis and therapeutic advances. In *Cancer Nanotechnology: Methods and Protocols*, an international panel of experts provide the most recent, cutting-edge, “how-to” approaches developed and employed by researchers in a variety of disciplines to identify cancer specific biomarkers, construct suitable multifunctional targeted nanostructure platforms, along with enhanced imaging and therapeutic applications. Covering such topics as multifunctional and multimodal nanoparticles, nanoparticle mediated cancer theranostics, molecular targets for cancer nanotechnology, and nanoparticles for non-invasive image-guided cancer therapy, the volume addresses the key challenges of the field today, specifically targeted and localized delivery of the drugs. As a volume in the highly successful *Methods in Molecular Biology*TM series, the protocols chapters include brief introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls.

Authoritative and cutting-edge, *Cancer Nanotechnology: Methods and Protocols* integrates cancer biology, clinical oncology, molecular cancer imaging, materials science and chemical engineering, biomedical engineering, toxicology, computer science, electrical engineering, chemistry, physics, and mathematics in order to achieve the vital goals of nanotechnology-mediated early cancer detection and more efficacious and less toxic therapies for these devastating diseases.

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