



Nanomedicine in Drug Delivery

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There is a clear need for innovative technologies to improve the delivery of therapeutic and diagnostic agents in the body. Recent breakthroughs in nanomedicine are now making it possible to deliver drugs and therapeutic proteins to local areas of disease or tumors to maximize clinical benefit while limiting unwanted side effects. **Nanomedicine in Drug Delivery** gives an overview of aspects of nanomedicine to help readers design and develop novel drug delivery systems and devices that build on nanoscale technologies.

Featuring contributions by leading researchers from around the world, the book examines:

- The integration of nanoparticles with therapeutic agents
- The synthesis and characterization of nanoencapsulated drug particles
- Targeted pulmonary nanomedicine delivery using inhalation aerosols
- The use of biological systems?bacteria, cells, viruses, and virus-like particles?as carriers to deliver nanoparticles
- Nanodermatology and the role of nanotechnology in the diagnosis and treatment of skin disease
- Nanoparticles for the delivery of small molecules, such as for gene and vaccine delivery
- The use of nanotechnologies to modulate and modify wound healing
- Nanoparticles in bioimaging, including magnetic resonance, computed tomography, and molecular imaging
- Nanoparticles to enhance the efficiency of existing anticancer drugs
- The development of nanoparticle formulations
- Nanoparticles for ocular drug delivery
- Nanoparticle toxicity, including routes of exposure and mechanisms of toxicity
- The use of animal and cellular models in nanoparticles safety studies

With its practical focus on the design, synthesis, and application of nanomedicine in drug delivery, this book is a valuable resource for clinical researchers and anyone working to tackle the challenges of delivering drugs in a more targeted and efficient manner. It explores a wide range of promising approaches for the diagnosis and treatment of diseases using cutting-edge nanotechnologies.

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