



# Nanotechnology and Nanomaterials in the Treatment of Life-threatening Diseases

*Narenda Kumar, Rajiv Kumar*

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*Nanotechnology and Nanomaterials in the Treatment of Life-threatening Diseases* takes a scientific approach to nanotechnology and nanomaterials applications in medicine, while also explaining the core biological principles for an audience of biomedical engineers, materials scientists, pharmacologists, and medical diagnostic technicians. The book is structured by major disease groups, offering a practical, application-based focus for scientists, engineers, and clinicians alike. The spectrum of medical applications is explored, from diagnostics and imaging to drug delivery, monitoring, therapies, and disease prevention. It also focuses specifically on the synthesis of nanomaterials and their potential health risks (particularly toxicity).

Nanomedicine - the application of nanomaterials and devices for addressing medical problems - has demonstrated great potential for enabling improved diagnosis, treatment, and monitoring of many serious illnesses, including cancer, cardiovascular and neurological disorders, HIV/AIDS, and diabetes, as well as many types of inflammatory and infectious diseases.

- Gain an understanding of how nanotechnologies and nanomaterials can be deployed in the fight against the major life-threatening diseases: cancer, neurological disorders (including Alzheimer's and Parkinson's), cardiovascular diseases, and HIV/AIDS
- Discover the latest developments in nanomedicine, from therapies and drug delivery to diagnostics and disease prevention
- The authors cover the health risks of nanomaterials as well as their benefits, considering toxicity and potential carcinogens

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