



Nanotoxicology: Progress toward Nanomedicine, Second Edition

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Since the first publication of this book in 2007, the field of nanoscience and nanomedicine continues to grow substantially. This second edition, **Nanotoxicology: Progress toward Nanomedicine**, enlists internationally recognized experts to document the continuing development and rationale for the safe design of engineered nanomaterials (ENM). This includes new improved characterization endpoints, screening, and detection methods for *in vitro* and *in vivo* toxicity testing. These tools also contribute greatly to nanosafety research applied to nanomedicines.

Topics include

- The impacts of nanotechnology on biomedicine, including functionalization for tissue-specific targeting, the biointeractions of multifunctional nanoparticle-based therapy, and the ability to control specific physicochemical properties of nanoparticles
- The requirements for proper detection, measurement, and assessment both for workplace exposure and in consumer products—with a focus on potential health and safety implications
- Predictive modeling, using quantitative nanostructure activity relationships to predict the pharmacokinetics and biodistribution of nanomaterials in the body
- Specific methodologies, imaging, and techniques to assess nanomaterials from the manufacturing process to nanomedicine applications
- Tools for assessing nanoparticle toxicity and the limitations of detection methods for assessing toxicity in both *in vivo* and *in vitro* systems and at the single cell and tissue levels
- Toxicity of nanomaterials to specific organ systems, cell-based targeting to tumors, and other biomedical applications
- The difficulty of conducting risk assessments and the need for addressing knowledge gaps, especially with long-term studies
- A roadmap for future research

The development of nanotechnology-based products must be complemented with appropriate validated methods to assess, monitor, manage, and reduce the potential risks of ENM to human health and the environment. This volume provides a cogent survey of advances in this area by a well-respected and diverse

group of international scientists.



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