



# **Handbook of Safety Assessment of Nanomaterials: From Toxicological Testing to Personalized Medicine (Pan Stanford Series on Biomedical Nanotechnology)**

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The rapidly evolving field of nanomedicine refers to the clinical application of nanotechnologies. However, as with all new technologies, there are ethical, safety, and regulatory issues. This handbook, written by leading international experts, provides a meticulous overview of the state of the art of safety assessment of nanomaterials (nanotoxicology) in the context of their application in nanomedicine.

The volume includes a historical perspective on the development of nanomedicine and its regulation, and a personal view of the future of (nano)medicine by Patrick Hunziker, president of the European Society of Nanomedicine. Ethical considerations in relation to nanomedicine are discussed. There are a series of chapters on organ-specific toxicities of nanomaterials, including pulmonary and cardiovascular toxicity, neurotoxicity, dermatotoxicity, and reproductive toxicity, as well as a discussion on immunotoxicity and genotoxicity. The importance of a thorough characterization of physicochemical properties of nanomaterials is emphasized. The handbook also contains a critical discussion on the applicability of in vitro versus in vivo methods and models for nanosafety assessment, along with an introduction to mathematical modeling approaches with a view to a predictive toxicology of nanomaterials. The overall aim is to provide a comprehensive, science-based framework for safety assessment of current and future nanomedicines.

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