

Nanotoxicology

Characterization, Dosing and Health Effects

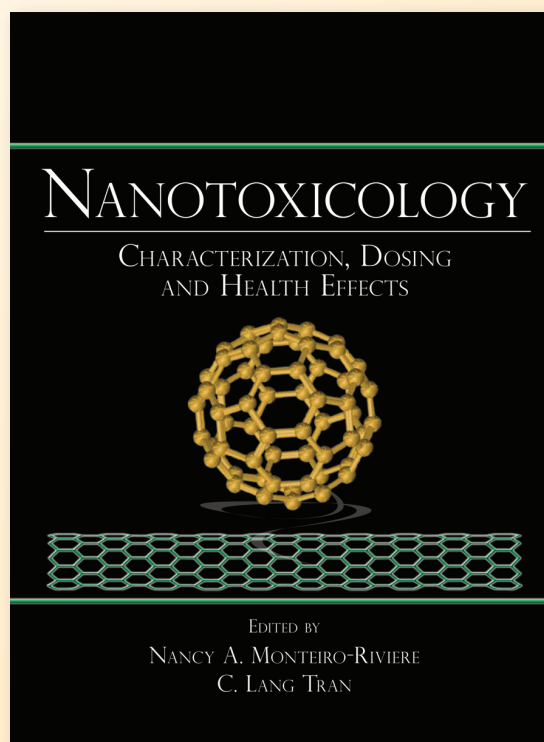
Edited by **NANCY A. MONTEIRO-RIVIERE**, Center for Chemical Toxicology Research and Pharmacokinetics, North Carolina State University, Raleigh, NC and **C. LANG TRAN**, Institute of Occupational Medicine, Edinburgh, UK

This book will help you:

- ✓ understand the principles of nanotechnology and its potential adverse effects on human health
- ✓ absorb the broad concepts that apply to pathways of dermal, oral and respiratory exposure and accurately conduct hazard assessments.
- ✓ examine the interaction of nanomaterials with the biological system, including membrane transfer, screening methods and impact on major organs

The book is essential reading for basic scientists, toxicologists, chemists, regulators, risk assessors and others involved in assessing the safety of manufactured nanomaterials, this text:

- ✓ discusses nanotoxicology techniques, dosing regimens, agglomeration problems, pharmacokinetics and exposure assessments
- ✓ provides information on screening methods to assess nanomaterials, as well as proteomic screening and gene expression profiling
- ✓ includes nomenclature standards, preparations, characterization and obstacles in in vitro and in vivo studies
- ✓ describes nanotoxicity in specific organs, including lung, skin, cardiovascular and nervous system
- ✓ features a section on the effects of nanomaterials on ecological systems and bioremediation methods



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60 Black & White Illustrations

Contents Include:

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| • Introduction | • Screening Methods to Assess Nanomaterials |
| • Nanomaterial Fabrication and Preparation | • Proteomic Screening |
| • Nanomaterial Characterization Methods | • Gene Expression Profiling |
| • Surfactants | • Cell Viability and Absorption |
| • Mechanical Techniques to Disperse Nanomaterial | • Target Organs |
| • Nanomaterial Usages in Drug Delivery | • Genotoxicology of Nanomaterials |
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