DESCRIPTION

This book provides the reader with a comprehensive view of analytical methods for nanotoxicology studies. After an introduction to nanomaterials and toxicological studies, the book discusses various characterization methods of nanomaterials and continues with the detection of nanoparticles in vivo as well as in vitro. A variety of techniques in molecular toxicology of nanomaterials is presented, followed by a detailed explanation of interaction between nanoparticles and biomacromolecules, including the structure-toxicity relationships of nanomaterials. Finally, the book concludes with the advantages and challenges of the analytical methods for nanotoxicology.

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