

1. Record Nr.	UNINA9910788270003321
Titolo	Case studies in nanotoxicology and particle toxicology // edited by Antonietta M. Gatti, PhD, Stefano Montanari, PhD
Pubbl/distr/stampa	Amsterdam, [Netherlands] : , : Academic Press, , 2015 ©2015
Descrizione fisica	1 online resource (277 p.)
Disciplina	615.1901
Soggetti	Nanoparticles - Toxicology Nanostructured materials - Toxicology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Cover; Title Page; Copyright Page; Dedication; Contents; Foreword; Preface; Acknowledgments; Chapter 1 - Introduction; 1.1 - The history; 1.2 - What is nanopathology?; References; Chapter 2 - A Very Brief History of Particulate Pollution; 2.1 - Origin; References; Chapter 3 - Nanotoxicity; 3.1 - Introduction; 3.2 - New scenario of the nano-bio-interactions; 3.3 - The nanotoxicological debate; References; Chapter 4 - Clinical Cases; 4.1 - Introduction; 4.2 - Mesothelioma: a nanofiber-induced disease; 4.3 - Hashimoto Thyroiditis; 4.4 - Ameloblastoma; 4.5 - Leukemia and lymphoma 4.6 - Congenital malformations 4.7 - Cryoglobulinemia; 4.8 - Breast Cancer; References; Chapter 5 - Sentinel Cases; 5.1 - Introduction: Nanopathology and Toxicology; 5.2 - Sentinel cases; 5.3 - Hepatic granulomas: Same disease, different pathogens; 5.4 - Archeology and war; 5.5 - The case of the worker in a ceramic-tile industry; 5.6 - Precious alloys in a prostatic neofornation; 5.7 - The case of a child with prostate cancer; 5.8 - A malformed child born with leukemia; 5.9 - Malformed children; 5.10 - The child with bone cancer; 5.11 - The case of the patient killed by repeated enemas 5.12 - The boy who played five-a-side football 5.13 - The boy who went into a sudden coma; References; Chapter 6 - Environmental Cases and Nanoecotoxicology; 6.1 - The case of a power plant; 6.2 -

Contamination around urban incinerators; 6.3 - The case of the incinerator of Terni; 6.4 - Contamination by engineered nanoparticles; References; Chapter 7 - War Cases and Terrorist Attacks; 7.1 - Introduction; 7.2 - The war environmental dust; 7.3 - The Italian case: diseases among soldiers after the Balkan war; 7.4 - The case of Soldier 1; 7.5 - The case of Soldier 2
8.2 - Intentional and accidental contamination of food; 8.3 - Bovine Spongiform Encephalopathy and food; 8.4 - Vaccine contamination; References; Chapter 9 - Occupational Cases; 9.1 - Introduction; 9.2 - Printers and nanoink; 9.3 - Cases of spontaneous pneumothorax; 9.4 - Working pollution in nanotechnology laboratories; References; Chapter 10 - Miscellaneous Cases; 10.1 - Impact of smoking; 10.2 - Diabetes, chronic-fatigue syndrome and other pathologies that could be explained from a different point of view; 10.3 - Other possible effects of nanoparticle exposure; References
Chapter 11 - The Future of Nanotechnologies

Sommario/riassunto

Case Studies in Nanotoxicology and Particle Toxicology presents a highly-illustrated analysis of the most prominent cases on the adverse effects of nanoparticles and their impact on humans and the environment. This comprehensive reference demonstrates the possible risks imposed by managing and handling nanoparticles, showing the effects of involuntary inhalation or ingestion during their use and after their incineration. Through the use of numerous examples, readers will discover the possible risks and effects of working with nanoparticles, along with best practices to prevent these eff
