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Titolo	Biological Effects of Fibrous and Particulate Substances // edited by Takemi Otsuki, Yasuo Yoshioka, Andrij Holian
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Descrizione fisica	1 online resource (229 p.)
Collana	Current Topics in Environmental Health and Preventive Medicine, , 2364-8333
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	1. Macrophage and Multinucleated Giant Cell Classification -- 2. NLRP3 Inflammasome-Mediated Toxicity of Fibrous Particles -- 3. Approaching a Unified Theory for Particle-Induced Inflammation -- 4. Reproductive and Developmental Effects of Nanomaterials -- 5. Fibrogenic and Immunotoxic Responses to Carbon Nanotubes -- 6. Potential Hazards of Skin Exposure to Nanoparticles -- 7. Health Effects of Silver Nanoparticles and Silver Ions -- 8. Multiwalled Carbon Nanotube-Induced Pulmonary Fibrogenesis -- 9. Silicates and Autoimmunity -- 10. Asbestos Exposure and Autoimmunity -- 11. T Cell Alteration Caused by Exposure to Asbestos -- 12. Effects of Asbestos Fibers on Human Cytotoxic T Cells.
Sommario/riassunto	This volume examines our current understanding of the biological effects of fibrous and particulate substances, including discussions on nanoparticles. It offers comprehensive information on the latest insights into the immunological effects of various irritants on the human body. Readers will benefit from the contributing authors' diverse perspectives and extensive discussions of key issues, which include molecular alterations of the immune system and autoimmune

diseases in connection with asbestos and silica, among others. The chapters also discuss recommendations, practical methods, and nanosafety science in situations involving exposure to nanotoxic substances. Edited in collaboration with the Japanese Society for Hygiene, this book provides up-to-date information on the immunological effects of nanotoxic substances to researchers interested in environmental and occupational health. Presenting a number of recent concepts and findings in the field, it enables readers to gain a comprehensive knowledge of health problems caused by environmental fibrous and particulate substances.
